



fraserhealth

Better health.
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March 15, 2013



Dan Bottrill
Chief Administration Officer
City of White Rock
15322 Buena Vista Ave
White Rock, BC V4B 1Y6

Dear Mr. Bottrill:

Re: Archived Drinking Water Chemistry Reports – City of White Rock

It was a pleasure meeting you, Mayor Wayne Baldwin and Sandra Kurylo on Wednesday March 13. At your request, I have enclosed several drinking water chemistry reports dating back to 1995 as you were interested in the trending of the arsenic and manganese levels. More recent summary reports may be obtained off of the EPCOR White Rock website. If there is anything you need clarified or require I can be reached at 1.604.870.7911.

Yours sincerely,

Dean Scovill, C.P.H.I. (C)
Public Health Inspector
Drinking Water Program

DS/pg

Encl(s).

cc: Dr. Lisa Mu, Medical Health Officer & Drinking Water Officer, Fraser Health Authority
Mr. Marc Zubel, Manager, Drinking Water Program, Fraser Health Authority.



Physical and Chemical Water Quality Data for White Rock Source and Distribution Water System for 2012

ABBREVIATIONS	
<	Less Than Detection Limit
ACU	Apparent Colour Unit
AO	Aesthetic Objective
as CaCO ₃	Expressed as Calcium Carbonate
GCDWQ	Guidelines for Canadian Drinking Water Quality
mg/L	milligram per Litre
N	Nitrogen
NA	Not Applicable, No Limits Set
NTU	Nephelometric Turbidity Unit
µS/cm	Microsiemens/cm
TCU	True Color Unit

SUBSTANCE	UNIT OF MEASURE	MIN.	MAX.	2012 AVERAGE	GCDWQ GUIDELINES
CHEMICALS					
Ammonia	mg/L	<0.01	0.48	0.08	NA
Fluoride	mg/L	0.02	0.23	0.18	1.5
Nitrate (as N)	mg/L	<0.01	0.93	0.26	10
Nitrite (as N)	mg/L	<0.01	<0.01	<0.01	NA
Total Organic Carbon	mg/L	<0.5	0.60	<0.5	NA
MINERALS					
Alkalinity (total, as CaCO ₃)	mg/L	91	118	105	NA
Calcium	mg/L	21.0	24.2	22.2	NA
Chloride	mg/L	1.7	75.1	28.0	250 (AO)
Hardness (total, as CaCO ₃)	mg/L	87	102	94	NA
Sodium	mg/L	9	83	28	200 (AO)
Sulphate	mg/L	1	23	15	500 (AO)
Total Dissolved Solids	mg/L	130	299	192	500 (AO)
OTHER					
Colour	ACU	<5	<5	<5	15TCU (AO)
Conductivity	µS/cm	228	528	323	NA
pH	-	7.0	7.7	7.3	8.5-8.5 (AO)
Turbidity	NTU	<0.1	0.5	0.1	5.00
TRACE METALS					
Aluminum	mg/L	<0.005	0.01	<0.005	0.1
Antimony	mg/L	<0.0002	<0.0002	<0.0002	0.005
Arsenic	mg/L	0.004	0.010	0.008	0.01
Barium	mg/L	0.011	0.020	0.014	1
Boron	mg/L	0.012	0.063	0.037	5
Cadmium	mg/L	<0.00007	<0.00007	<0.00007	0.005
Calcium	mg/L	21.0	24.2	22.2	NA
Chromium	mg/L	<0.0005	0.0018	<0.0005	0.05
Copper	mg/L	<0.001	0.185	0.016	1 (AO)
Iron	mg/L	0.005	0.119	0.018	0.3 (AO)
Lead	mg/L	<0.0001	0.0011	0.0003	0.01
Magnesium	mg/L	8.4	10.7	9.4	NA
Manganese	mg/L	<0.001	0.129	0.053	0.05 (AO)
Mercury	mg/L	<0.00001	<0.00001	<0.00001	0.001
Phosphorus	mg/L	0.08	0.20	0.18	NA
Potassium	mg/L	2.5	4.4	3.3	NA
Selenium	mg/L	<0.0005	0.0066	0.0011	0.01
Silicon	mg/L	9.05	9.45	9.24	NA
Uranium	mg/L	<0.0005	<0.0005	<0.0005	0.02
Vanadium	mg/L	0.0028	0.0050	0.0034	NA
Zinc	mg/L	0.001	0.140	0.010	5 (AO)



Suite 203, 15261 Russell Avenue
White Rock, BC V4B 2P7
Canada

Ph: 604-536-6112

www.epcor.com



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

Page: 2 of 23

NWL Number 487572-2
 Sample Date Aug 23, 2006 9:15:00AM
 Sample Description Bergstorm & H. Bluff
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0055	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.025	0.001	1	Pass
Boron	Extractable	mg/L	0.019	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.001	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.034	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0004	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.005	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1	0.1	5	Acceptable
Routine Water						
pH			8.05	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	263	1		n/a
Sodium	Extractable	mg/L	13.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	17.0	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.27	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	16	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	100	5	250-650	Low
Total Dissolved Solids		mg/L	140	1	500	Acceptable
Hardness	as CaCO3	mg/L	101	-		Hard

Please Note: Related regulatory criteria are provided as a service to clients. Norwest Labs' responsibility is limited to analytical data. We are not responsible for ensuring that listed criteria are current, scientifically valid, appropriate and sufficient for the user of the data.



Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

Page: 1 of 23

NWL Number 487572-1
 Sample Date Aug 23, 2006 9:22:00AM
 Sample Description 1400 Blk. Cory Rd.
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0060	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.019	0.001	1	Pass
Boron	Extractable	mg/L	0.018	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0009	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.075	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0006	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.009	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.3	0.1	5	Acceptable
Routine Water						
pH			8.03	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	259	1		n/a
Sodium	Extractable	mg/L	13.8	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.006	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	22.5	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.21	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	14	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	100	5	250-650	Low
Total Dissolved Solids		mg/L	140	1	500	Acceptable
Hardness	as CaCO3	mg/L	97	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bili to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number 487572-3
 Sample Date Aug 23, 2006 12:45:00PM
 Sample Description 13700 Blk. Blackburn
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0054	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.019	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0010	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.043	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.012	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.2	0.1	5	Acceptable
Routine Water						
pH			8.05	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	266	1		n/a
Sodium	Extractable	mg/L	13.5	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	14.0	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.28	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	15	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	102	5	250-650	Low
Total Dissolved Solids		mg/L	140	1	500	Acceptable
Hardness	as CaCO3	mg/L	100	-		Hard

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 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **487572**
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-4
Sample Date	Aug 23, 2006 9:00:00AM
Sample Description	13900 Terry Road
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0064	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.015	0.001	1	Pass
Boron	Extractable	mg/L	0.018	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0007	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.016	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.8	0.1	5	Acceptable
Routine Water						
pH			8.12	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	243	1		n/a
Sodium	Extractable	mg/L	14.1	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.012	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	14.7	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.08	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	93	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO3	mg/L	84	-		Moderately Hard

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 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:#
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

NWL Number 487572-6
 Sample Date Aug 23, 2006 9:40:00AM
 Sample Description #1 Well - Oxford
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0072	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.016	0.001	1	Pass
Boron	Extractable	mg/L	0.016	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0007	0.0005	0.05	Pass
Copper	Extractable	mg/L	<0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0004	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.005	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.1	0.1	5	Acceptable
Routine Water						
pH			8.09	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	242	1		n/a
Sodium	Extractable	mg/L	15.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.056	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	16.0	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.07	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO ₄)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO ₃	mg/L	90	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO ₃	mg/L	82	-		Moderately Hard

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 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

Page: 5 of 23

NWL Number	487572-5
Sample Date	Aug 23, 2006 1:05:00PM
Sample Description	Mann Park & High St
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0057	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.017	0.001	1	Pass
Boron	Extractable	mg/L	0.016	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0007	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.014	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.016	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.020	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.3	0.1	5	Acceptable
Routine Water						
pH			8.06	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	257	1		n/a
Sodium	Extractable	mg/L	13.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	13.0	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.22	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	14	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	101	5	250-650	Low
Total Dissolved Solids		mg/L	140	1	500	Acceptable
Hardness	as CaCO3	mg/L	97	-		Moderately Hard

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Analytical Report

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 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

NWL Number 487572-7
 Sample Date Aug 23, 2006 9:45:00AM
 Sample Description #2 Well - Oxford
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0050	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.016	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0010	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0005	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.019	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.4	0.1	5	Acceptable
Routine Water						
pH			8.08	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	271	1		n/a
Sodium	Extractable	mg/L	12.8	0.4	200	Acceptable
Iron	Extractable	mg/L	0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	13.5	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.30	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	16	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	102	5	250-650	Low
Total Dissolved Solids		mg/L	140	1	500	Acceptable
Hardness	as CaCO3	mg/L	102	-		Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC, V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-8
Sample Date	Aug 23, 2006 9:35:00AM
Sample Description	#3 Well - Oxford
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0068	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.014	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0006	0.0005	0.05	Pass
Copper	Extractable	mg/L	<0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0001	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.006	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	0.10	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.1	0.1	5	Acceptable
Routine Water						
pH			8.13	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	236	1		n/a
Sodium	Extractable	mg/L	13.1	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.172	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	11.7	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	<0.01	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	10	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	95	5	250-650	Low
Total Dissolved Solids		mg/L	120	1	500	Acceptable
Hardness	as CaCO3	mg/L	83	-		Moderately Hard

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Analytical Report

Norwest Labs
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 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-9
Sample Date	Aug 23, 2006 9:55:00AM
Sample Description	#6 Well - Merklin
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0107	0.0002	0.01	Fail
Barium	Extractable	mg/L	0.022	0.001	1	Pass
Boron	Extractable	mg/L	0.040	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0009	0.0005	0.05	Pass
Copper	Extractable	mg/L	<0.001	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.003	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.5	0.1	5	Acceptable
Routine Water						
pH			8.22	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	282	1		n/a
Sodium	Extractable	mg/L	25.2	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.112	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	16.2	0.4	250	Acceptable
Fluoride		mg/L	0.19	0.05	1.5	Pass
Nitrate - N		mg/L	<0.01	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	12	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	115	5	250-650	Low
Total Dissolved Solids		mg/L	150	1	500	Acceptable
Hardness	as CaCO3	mg/L	84	-		Moderately Hard

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Analytical Report

Norwest Labs
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 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number 487572-10
 Sample Date Aug 23, 2006 10:25:00AM
 Sample Description Fir & Thrift
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0080	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.024	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0008	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.006	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0003	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.9	0.1	5	Acceptable
Routine Water						
pH			8.18	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	258	1		n/a
Sodium	Extractable	mg/L	18.7	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.058	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	14.8	0.4	250	Acceptable
Fluoride		mg/L	0.15	0.05	1.5	Pass
Nitrate - N		mg/L	0.05	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	96	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO3	mg/L	87	-		Moderately Hard

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Analytical Report

Norwest Labs
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Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: EPCOR
Report to: EPCOR
102 - 1440 George Street
White Rock, BC, Canada
V4B 4A3
Attn: Betty Icharia
Sampled By:
Company: Epcor

Project
ID:
Name: Annual Samples (Metals)
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 487572
Control Number: E 271361
Date Received: Aug 23, 2006
Date Reported: Aug 29, 2006
Report Number: 894444

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NWL Number 487572-11
Sample Date Aug 23, 2006 10:45:00AM
Sample Description 15600 Blk. Semiahmoo
Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0069	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.014	0.001	1	Pass
Boron	Extractable	mg/L	0.016	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0008	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.011	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0002	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.4	0.1	5	Acceptable
Routine Water						
pH			8.12	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	241	1		n/a
Sodium	Extractable	mg/L	14.8	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.019	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	13.5	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.09	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	92	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO3	mg/L	86	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-12
Sample Date	Aug 23, 2006 11:40:00AM
Sample Description	Catherine Court
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0072	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.015	0.001	1	Pass
Boron	Extractable	mg/L	0.016	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0007	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.002	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0005	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.5	0.1	5	Acceptable
Routine Water						
pH			8.13	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	244	1		n/a
Sodium	Extractable	mg/L	14.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.014	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	13.7	0.4	250	Acceptable
Fluoride		mg/L	0.12	0.05	1.5	Pass
Nitrate - N		mg/L	0.10	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	95	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO3	mg/L	88	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **487572**
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-13
Sample Date	Aug 23, 2006 1:25:00PM
Sample Description	Thrift & Maple
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0098	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.036	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0008	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.019	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0004	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.002	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	2.2	0.1	5	Acceptable
Routine Water						
pH			8.19	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	284	1		n/a
Sodium	Extractable	mg/L	24.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.053	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	16.2	0.4	250	Acceptable
Fluoride		mg/L	0.18	0.05	1.5	Pass
Nitrate - N		mg/L	<0.01	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	110	5	250-650	Low
Total Dissolved Solids		mg/L	150	1	500	Acceptable
Hardness	as CaCO3	mg/L	85	-		Moderately Hard

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Analytical Report

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 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
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Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-14
Sample Date	Aug 23, 2006 11:25:00AM
Sample Description	1500 Blk. Stevens
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0101	0.0002	0.01	Fail
Barium	Extractable	mg/L	0.018	0.001	1	Pass
Boron	Extractable	mg/L	0.037	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0009	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.004	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0003	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	<0.001	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	1.2	0.1	5	Acceptable
Routine Water						
pH			8.14	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	282	1		n/a
Sodium	Extractable	mg/L	24.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.067	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	16.0	0.4	250	Acceptable
Fluoride		mg/L	0.18	0.05	1.5	Pass
Nitrate - N		mg/L	0.01	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	12	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	113	5	250-650	Low
Total Dissolved Solids		mg/L	150	1	500	Acceptable
Hardness	as CaCO3	mg/L	86	-		Moderately Hard

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Analytical Report

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 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number 487572-15
 Sample Date Aug 23, 2006 1:36:00PM
 Sample Description 1000 Blk. Ewson
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0074	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.015	0.001	1	Pass
Boron	Extractable	mg/L	0.020	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0008	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.013	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0009	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.006	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.8	0.1	5	Acceptable
Routine Water						
pH			8.16	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	247	1		n/a
Sodium	Extractable	mg/L	16.6	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	0.023	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	14	0.4	250	Acceptable
Fluoride		mg/L	0.13	0.05	1.5	Pass
Nitrate - N		mg/L	0.07	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	98	5	250-650	Low
Total Dissolved Solids		mg/L	130	1	500	Acceptable
Hardness	as CaCO3	mg/L	87	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

NWL Number 487572-16
 Sample Date Aug 23, 2006 11:35:00AM
 Sample Description 15600 Moffat Lane
 Sample Matrix Water

Analyte	Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable					
Aluminum	Extractable mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable mg/L	0.0070	0.0002	0.01	Pass
Barium	Extractable mg/L	0.013	0.001	1	Pass
Boron	Extractable mg/L	0.015	0.002	5	Pass
Cadmium	Extractable mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable mg/L	0.0006	0.0005	0.05	Pass
Copper	Extractable mg/L	0.005	0.001	1	Acceptable
Lead	Extractable mg/L	0.0024	0.0001	0.01	Pass
Uranium	Extractable mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable mg/L	0.004	0.001	5	Acceptable
Metals Total					
Mercury	Total ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties					
Colour	Apparent, Potable Colour units	<5	5	15	Acceptable
Turbidity	NTU	0.7	0.1	5	Acceptable
Routine Water					
pH		8.20	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water uS/cm	244	1		n/a
Sodium	Extractable mg/L	14.7	0.4	200	Acceptable
Iron	Extractable mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable mg/L	0.008	0.005	0.05	Acceptable
Chloride	Dissolved mg/L	14.1	0.4	250	Acceptable
Fluoride	mg/L	0.13	0.05	1.5	Pass
Nitrate - N	mg/L	0.06	0.01	10	Pass
Nitrite - N	mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)	mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3 mg/L	95	5	250-650	Low
Total Dissolved Solids	mg/L	130	1	500	Acceptable
Hardness	as CaCO3 mg/L	88	-		Moderately Hard

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Analytical Report

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 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number 487572-17
 Sample Date Aug 23, 2006 1:50:00PM
 Sample Description 800 Blk. Stayte Rd.
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.006	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0083	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.015	0.001	1	Pass
Boron	Extractable	mg/L	0.046	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0012	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.023	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0006	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.007	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.6	0.1	5	Acceptable
Routine Water						
pH			8.09	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	377	1		n/a
Sodium	Extractable	mg/L	40.2	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	43.7	0.4	250	Acceptable
Fluoride		mg/L	0.14	0.05	1.5	Pass
Nitrate - N		mg/L	0.48	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	16	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	106	5	250-650	Low
Total Dissolved Solids		mg/L	200	1	500	Acceptable
Hardness	as CaCO3	mg/L	94	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: **487572**
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number	487572-18
Sample Date	Aug 23, 2006 11:50:00AM
Sample Description	Marine Dr. & Dolphin
Sample Matrix	Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0085	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.015	0.001	1	Pass
Boron	Extractable	mg/L	0.064	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0016	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.189	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0035	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.01	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.4	0.1	5	Acceptable
Routine Water						
pH			8.15	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	481	1		n/a
Sodium	Extractable	mg/L	57.4	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	64.9	0.4	250	Acceptable
Fluoride		mg/L	0.14	0.05	1.5	Pass
Nitrate - N		mg/L	0.71	0.01	10	Pass
Nitrite - N		mg/L	0.01	0.005	1	Pass
Sulfate (SO4)		mg/L	20	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	117	5	250-650	Low
Total Dissolved Solids		mg/L	250	1	500	Acceptable
Hardness	as CaCO3	mg/L	96.8	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

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NWL Number 487572-19
 Sample Date Aug 23, 2006 12:00:00PM
 Sample Description 1200 Blk. Overall
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0095	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.013	0.001	1	Pass
Boron	Extractable	mg/L	0.074	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0024	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.049	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0006	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.010	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	<0.02	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.8	0.1	5	Acceptable
Routine Water						
pH			8.08	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	526	1		n/a
Sodium	Extractable	mg/L	65.8	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	76.1	0.4	250	Acceptable
Fluoride		mg/L	0.15	0.05	1.5	Pass
Nitrate - N		mg/L	0.93	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	22	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	125	5	250-650	Low
Total Dissolved Solids		mg/L	276	1	500	Acceptable
Hardness	as CaCO3	mg/L	97.3	-		Moderately Hard

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Analytical Report

Norwest Labs
 #104, 19575-55 A Ave.
 Surrey, BC. V3S 8P8
 Phone: (604) 514-3322
 Fax: (604) 514-3323

Bill to: EPCOR
 Report to: EPCOR
 102 - 1440 George Street
 White Rock, BC, Canada
 V4B 4A3
 Attn: Betty Icharia
 Sampled By:
 Company: Epcor

Project
 ID:
 Name: Annual Samples (Metals)
 Location:
 LSD:
 P.O.:
 Acct. Code:

NWL Lot ID: 487572
 Control Number: E 271361
 Date Received: Aug 23, 2006
 Date Reported: Aug 29, 2006
 Report Number: 894444

Page: 20 of 23

NWL Number 487572-20
 Sample Date Aug 23, 2006 12:02:00PM
 Sample Description #5 Well - B. Vista
 Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	<0.005	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0094	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.014	0.001	1	Pass
Boron	Extractable	mg/L	0.076	0.002	5	Pass
Cadmium	Extractable	mg/L	<0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0025	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.061	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0034	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.026	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	0.04	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	<5	5	15	Acceptable
Turbidity		NTU	0.5	0.1	5	Acceptable
Routine Water						
pH			8.06	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	522	1		n/a
Sodium	Extractable	mg/L	66.8	0.4	200	Acceptable
Iron	Extractable	mg/L	<0.03	0.03	0.3	Acceptable
Manganese	Extractable	mg/L	<0.005	0.005	0.05	Acceptable
Chloride	Dissolved	mg/L	74.8	0.4	250	Acceptable
Fluoride		mg/L	0.15	0.05	1.5	Pass
Nitrate - N		mg/L	0.91	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	22	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	121	5	250-650	Low
Total Dissolved Solids		mg/L	274	1	500	Acceptable
Hardness	as CaCO3	mg/L	100	-		Hard

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**NORWEST
LABS**

Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: EPCOR
Report to: EPCOR
102 - 1440 George Street
White Rock, BC, Canada
V4B 4A3
Attn: Betty Icharia
Sampled By:
Company: Epcor

Project
ID:
Name: Annual Samples (Metals)
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 487572
Control Number: E 271361
Date Received: Aug 23, 2006
Date Reported: Aug 29, 2006
Report Number: 894444

Page: 21 of 23

NWL Number 487572-21
Sample Date Aug 23, 2006 1:05:00PM
Sample Description #4 Well - High St.
Sample Matrix Water

Analyte		Units	Result	Detection Limit	Guideline Limit	Guideline Comments
Metals Extractable						
Aluminum	Extractable	mg/L	0.070	0.005	0.1	Acceptable
Antimony	Extractable	mg/L	<0.0002	0.0002	0.006	Pass
Arsenic	Extractable	mg/L	0.0021	0.0002	0.01	Pass
Barium	Extractable	mg/L	0.017	0.001	1	Pass
Boron	Extractable	mg/L	0.010	0.002	5	Pass
Cadmium	Extractable	mg/L	0.00001	0.00001	0.005	Pass
Chromium	Extractable	mg/L	0.0012	0.0005	0.05	Pass
Copper	Extractable	mg/L	0.012	0.001	1	Acceptable
Lead	Extractable	mg/L	0.0015	0.0001	0.01	Pass
Uranium	Extractable	mg/L	<0.0005	0.0005	0.02	Pass
Zinc	Extractable	mg/L	0.004	0.001	5	Acceptable
Metals Total						
Mercury	Total	ug/L	0.03	0.02		n/a
Physical and Aggregate Properties						
Colour	Apparent, Potable	Colour units	22	5	15	Above Aesthetic
Turbidity		NTU	17.8	0.1	5	Above Aesthetic
Routine Water						
pH			8.13	-	6.5 - 8.5	Acceptable
Electrical Conductivity	Water	uS/cm	214	1		n/a
Sodium	Extractable	mg/L	8.7	0.4	200	Acceptable
Iron	Extractable	mg/L	0.97	0.03	0.3	Above Aesthetic
Manganese	Extractable	mg/L	0.242	0.005	0.05	Above Aesthetic
Chloride	Dissolved	mg/L	6.4	0.4	250	Acceptable
Fluoride		mg/L	0.11	0.05	1.5	Pass
Nitrate - N		mg/L	<0.01	0.01	10	Pass
Nitrite - N		mg/L	<0.005	0.005	1	Pass
Sulfate (SO4)		mg/L	11	0.9	500	Acceptable
T-Alkalinity	as CaCO3	mg/L	94	5	250-650	Low
Total Dissolved Solids		mg/L	120	1	500	Acceptable
Hardness	as CaCO3	mg/L	90	-		Moderately Hard

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**NORWEST
LABS**

Analytical Report

Norwest Labs
#104, 19575-55 A Ave.
Surrey, BC. V3S 8P8
Phone: (604) 514-3322
Fax: (604) 514-3323

Bill to: EPCOR
Report to: EPCOR
102 - 1440 George Street
White Rock, BC, Canada
V4B 4A3
Attn: Betty Icharia
Sampled By:
Company: Epcor

Project
ID:
Name: Annual Samples (Metals)
Location:
LSD:
P.O.:
Acct. Code:

NWL Lot ID: 487572
Control Number: E 271361
Date Received: Aug 23, 2006
Date Reported: Aug 29, 2006
Report Number: 894444

Page: 22 of 23

Approved by:

Walter Brandl
Operations Manager - Surrey

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REPORTED TO: White Rock L es Ltd.



REPORT DATE: May 28, 2002

GROUP NUMBER: 30514039

Metals Analysis in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Well	#1 Oxford Well	#2 Oxford Well	#2 Oxford Well	DETECTION LIMIT
SAMPLE PREPARATION:	TOTAL	DISSOLVED	TOTAL	DISSOLVED	
DATE SAMPLED:	May 13/02	May 13/02	May 13/02	May 13/02	
CANTEST ID:	205140153	205140153	205140154	205140154	
Copper Cu	0.002	-	0.004	-	0.001
Iron Fe	0.07	<	0.08	<	0.05
Manganese Mn	0.066	0.064	0.013	0.008	0.001
Sodium Na	-	13.0	-	10.6	0.05
Zinc Zn	0.011	-	0.018	-	0.005

Metals Analysis in Water

CLIENT SAMPLE IDENTIFICATION:	#3 Goggs Well	#3 Goggs Well	#4 High St. Well	#4 High St. Well	DETECTION LIMIT
SAMPLE PREPARATION:	TOTAL	DISSOLVED	TOTAL	DISSOLVED	
DATE SAMPLED:	May 13/02	May 13/02	May 13/02	May 13/02	
CANTEST ID:	205140155	205140155	205140156	205140156	
Copper Cu	0.003	-	0.006	-	0.001
Iron Fe	0.06	<	0.15	<	0.05
Manganese Mn	0.18	0.18	0.20	0.20	0.001
Sodium Na	-	10.9	-	7.18	0.05
Zinc Zn	0.013	-	0.008	-	0.005

Metals Analysis in Water

CLIENT SAMPLE IDENTIFICATION:	#5 Oxford & Buena Vista Well	#5 Oxford & Buena Vista Well	#6 Merklyn Well	#6 Merklyn Well	DETECTION LIMIT
SAMPLE PREPARATION:	TOTAL	DISSOLVED	TOTAL	DISSOLVED	
DATE SAMPLED:	May 13/02	May 13/02	May 13/02	May 13/02	
CANTEST ID:	205140157	205140157	205140158	205140158	
Copper Cu	0.002	-	0.001	-	0.001
Iron Fe	0.05	<	0.10	<	0.05
Manganese Mn	0.011	0.009	0.11	0.088	0.001
Sodium Na	-	60.2	-	26.0	0.05
Zinc Zn	<	-	0.12	-	0.005

Results expressed as milligrams per liter (mg/L)
 < = Less than detection limit

REPORTED TO: White Rock Lakes Ltd.



REPORT DATE: May 28, 2002

GROUP NUMBER: 30514039

Potability (Health Criteria at Point of Use) In Water

CLIENT SAMPLE IDENTIFICATION:		#1 Oxford Well	#2 Oxford Well	#3 Goggs Well	#4 High St. Well		
DATE SAMPLED:		May 13/02	May 13/02	May 13/02	May 13/02	Max. Acceptable Concentration	UNITS
CANTEST ID:		205140153	205140154	205140155	205140156		
Conventional Parameters							
Conductivity		224	248	210	216	-	µS/cm
Hardness	CaCO3	72	91	74	91	-	mg/L
Total Alkalinity	CaCO3	90.5	104	93.5	104	-	mg/L
Bicarbonate Alkalinity	HCO3	110	127	114	127	-	mg/L
Carbonate Alkalinity	CO3	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.21	0.25	0.19	0.19	1.5	mg/L
Nitrate and Nitrite	N	< 0.05	0.23	< 0.05	< 0.05	10	mg/L
Nitrate	N	< 0.05	0.23	< 0.05	< 0.05	10.0	mg/L
Nitrite	N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate	SO4	11.1	16.6	10.6	13.2	-	mg/L
Total Metals Analysis							
Aluminum	Al	0.005	0.008	< 0.005	0.020	-	mg/L
Antimony	Sb	< 0.001	< 0.001	< 0.001	< 0.001	0.006	mg/L
Arsenic	As	< 0.001	< 0.001	0.008	0.004	0.025	mg/L
Barium	Ba	0.014	0.018	0.017	0.018	1.0	mg/L
Boron	B	0.05	< 0.05	< 0.05	< 0.05	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	0.001	0.002	0.001	0.001	0.05	mg/L
Lead	Pb	< 0.001	< 0.001	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	9.38	10.7	8.06	10.3	-	mg/L
Mercury	Hg	< 0.02	< 0.02	< 0.02	< 0.02	1	µg/L
Selenium	Se	< 0.002	< 0.002	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis							
Calcium	Ca	16.7	20.7	17.4	20.3	-	mg/L
Magnesium	Mg	7.30	9.40	7.40	9.71	-	mg/L
Potassium	K	2.51	2.62	2.56	2.34	-	mg/L
Silicon	SiO2	15.2	15.5	15.6	17.3	-	mg/L
Microbiological Analysis							
Total Coliform (Confirmed)		< 1	< 1	< 1	-	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	< 1	-	not detected	Col./100 mL

µS/cm = microsiemens per centimeter
 µg/L = micrograms per liter
 < = Less than detection limit

mg/L = milligrams per liter
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock U as Ltd.



REPORT DATE: May 28, 2002

GROUP NUMBER: 30514039

Potability (Health Criteria at Point of Use) In Water

CLIENT SAMPLE IDENTIFICATION:		#5 Oxford & Buena Vista Well	#6 Merkllyn Well		
DATE SAMPLED:		May 13/02	May 13/02	Max. Acceptable Concentration	UNITS
CANTEST ID:		205140157	205140158		
Conventional Parameters					
Conductivity		472	262	-	μ S/cm
Hardness	CaCO ₃	89	74	-	mg/L
Total Alkalinity	CaCO ₃	119	115	-	mg/L
Bicarbonate Alkalinity	HCO ₃	146	141	-	mg/L
Carbonate Alkalinity	CO ₃	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.22	0.31	1.5	mg/L
Nitrate and Nitrite	N	0.93	< 0.05	10	mg/L
Nitrate	N	0.92	< 0.05	10.0	mg/L
Nitrite	N	0.005	< 0.002	1.0	mg/L
Sulphate	SO ₄	22.1	12.4	-	mg/L
Total Metals Analysis					
Aluminum	Al	< 0.005	< 0.005	-	mg/L
Antimony	Sb	< 0.001	< 0.001	0.006	mg/L
Arsenic	As	0.010	0.010	0.025	mg/L
Barium	Ba	0.012	0.019	1.0	mg/L
Boron	B	0.07	< 0.05	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	0.002	0.001	0.05	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	9.95	8.68	-	mg/L
Mercury	Hg	< 0.02	< 0.02	1	μ g/L
Selenium	Se	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	19.4	16.8	-	mg/L
Magnesium	Mg	9.80	7.83	-	mg/L
Potassium	K	4.10	3.23	-	mg/L
Silicon	SiO ₂	16.8	15.1	-	mg/L
Microbiological Analysis					
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	not detected	Col./100 mL

μ S/cm = microsiemens per centimeter
 μ g/L = micrograms per liter
 < = Less than detection limit

mg/L = milligrams per liter
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Industries Ltd.



REPORT DATE: May 28, 2002

GROUP NUMBER: 30514039

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Well	#2 Oxford Well	#3 Goggs Well	#4 High St. Well		
DATE SAMPLED:	May 13/02	May 13/02	May 13/02	May 13/02		
CANTEST ID:	205140153	205140154	205140155	205140156	DETECTION LIMIT	UNITS
pH, Laboratory	7.84	7.84	7.91	7.94	·	pH units
True Color	<	<	<	<	5	CU
Turbidity		0.18	<	0.47	0.1	NTU
Total Dissolved Solids	135	112	113	145	10	mg/L
Chloride Cl	16.4	13.3	12.2	7.1	0.2	mg/L

CU = color units
mg/L = milligrams per liter
< = Less than detection limit

NTU = nephelometric turbidity units

Conventional Parameters in Water

CLIENT SAMPLE IDENTIFICATION:	#5 Oxford & Buena Vista Well	#6 Merklyn Well		
DATE SAMPLED:	May 13/02	May 13/02		
CANTEST ID:	205140157	205140158	DETECTION LIMIT	UNITS
pH, Laboratory	7.88	8.05	·	pH units
True Color	<	<	5	CU
Turbidity	<	<	0.1	NTU
Total Dissolved Solids	241	166	10	mg/L
Chloride Cl	69.0	24.5	0.2	mg/L

CU = color units
mg/L = milligrams per liter
< = Less than detection limit

NTU = nephelometric turbidity units

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 31, 2001

GROUP NUMBER: 10522032

Whiterock Utilities Ltd

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Well	#2 Oxford Well	#3 Goggs Well	#4 High St. Well		
DATE SAMPLED:	May 22/01	May 22/01	May 22/01	May 22/01	Aesthetic Objective	UNITS
CANTEST ID:	105220238	105220239	105220240	105220241		
Conventional Parameters						
pH Laboratory	6.78	6.93	6.91	6.98	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	0.10	0.11	< 0.1	1.7	5	NTU
Total Dissolved Solids	148	163	136	150	500	mg/L
Chloride Cl	16.2	14.0	12.3	7.2	250	mg/L
Sulphate SO4	11.4	17.1	10.7	12.5	500	mg/L
Total Metals Analysis						
Copper Cu	< 0.001	< 0.001	< 0.001	0.020	1.0	mg/L
Iron Fe	< 0.05	< 0.05	< 0.05	0.20	0.3	mg/L
Manganese Mn	0.065 X	0.015	0.17 X	0.19 X	0.05	mg/L
Zinc Zn	< 0.005	< 0.005	< 0.005	0.005	5	mg/L
Dissolved Metals Analysis						
Iron Fe	< 0.05	< 0.05	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.059 X	0.015	0.16 X	0.17 X	0.05	mg/L
Sodium Na	13.5	10.8	11.9	7.69	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the Aesthetic Objective

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 31, 2001

GROUP NUMBER: 10522032

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Oxford & Buena Vista Well	#6 Merklyn Well		
DATE SAMPLED:		May 22/01	May 22/01	Aesthetic Objective	UNITS
CANTEST ID		105220242	105220243		
Conventional Parameters					
pH, Laboratory		7.02	7.01	6.5 - 8.5	pH units
True Color		< 5	< 5	15	CU
Turbidity		0.10	0.18	5	NTU
Total Dissolved Solids		293	170	500	mg/L
Chloride	Cl	71.8	15.8	250	mg/L
Sulphate	SO4	22.4	12.4	500	mg/L
Total Metals Analysis					
Copper	Cu	0.003	< 0.001	1.0	mg/L
Iron	Fe	< 0.05	< 0.05	0.3	mg/L
Manganese	Mn	0.009	0.002	0.05	mg/L
Zinc	Zn	< 0.005	0.007	5	mg/L
Dissolved Metals Analysis					
Iron	Fe	< 0.05	< 0.05	0.3	mg/L
Manganese	Mn	0.008	< 0.001	0.05	mg/L
Sodium	Na	54.1	15.6	200	mg/L

CU = color units

mg/L = milligrams per liter

< = Less than detection limit

NTU = nephelometric turbidity units

REPORTED TO: White Rock Utilities Ltd.

REPORT DATE: May 31, 2001

GROUP NUMBER: 10522032



Potability (Health Criteria at Point of Use) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Well	#2 Oxford Well	#3 Goggs Well	#4 High St. Well		
DATE SAMPLED:	May 22/01	May 22/01	May 22/01	May 22/01		
CANTEST ID:	105220238	105220239	105220240	105220241	Max. Acceptable Concentration	UNITS
Conventional Parameters						
Conductivity	226	241	212	216	-	µS/cm
Hardness CaCO3	74	92	78	92	-	mg/L
Total Alkalinity CaCO3	90.6	104	93.2	101	-	mg/L
Bicarbonate Alkalinity HCO3	111	127	114	124	-	mg/L
Carbonate Alkalinity CO3	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.13	0.11	0.13	< 0.05	1.5	mg/L
Nitrate and Nitrite N	< 0.05	0.31	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.31	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO4	11.4	17.1	10.7	12.5	-	mg/L
Total Metals Analysis						
Aluminum Al	< 0.005	< 0.005	< 0.005	0.013	-	mg/L
Antimony Sb	< 0.001	< 0.001	< 0.001	< 0.001	0.006	mg/L
Arsenic As	0.007	0.005	0.007	0.003	0.025	mg/L
Barium Ba	0.014	0.016	0.017	0.017	1.0	mg/L
Boron B	0.05	< 0.05	< 0.05	< 0.05	5	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.001	< 0.001	< 0.001	< 0.001	0.05	mg/L
Lead Pb	< 0.001	< 0.001	< 0.001	0.003	0.01	mg/L
Magnesium Mg	8.18	10.5	8.10	10.6	-	mg/L
Mercury Hg	< 0.02	< 0.02	< 0.02	< 0.02	1	µg/L
Selenium Se	< 0.002	< 0.002	< 0.002	< 0.002	0.01	mg/L
Uranium U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis						
Calcium Ca	16.8	21.3	18.1	20.4	-	mg/L
Magnesium Mg	7.78	9.29	8.01	9.88	-	mg/L
Potassium K	2.43	2.61	2.61	2.20	-	mg/L
Silicon SiO2	18.2	18.6	18.9	19.9	-	mg/L
Microbiological Analysis						
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 31, 2001

GROUP NUMBER: 10522032

Potability (Health Criteria at Point of Use) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Oxford & Buena Vista Well	#6 Merkllyn Well		
DATE SAMPLED:		May 22/01	May 22/01	Max. Acceptable Concentration	UNITS
CANTEST ID:		105220242	105220243		
Conventional Parameters					
Conductivity		479	243	-	µS/cm
Hardness	CaCO3	83	81	-	mg/L
Total Alkalinity	CaCO3	121	99.6	-	mg/L
Bicarbonate Alkalinity	HCO3	147	122	-	mg/L
Carbonate Alkalinity	CO3	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.25	0.15	1.5	mg/L
Nitrate and Nitrite	N	0.85	0.13	10	mg/L
Nitrate	N	0.85	0.13	10.0	mg/L
Nitrite	N	0.004	< 0.002	1.0	mg/L
Sulphate	SO4	22.4	12.4	-	mg/L
Total Metals Analysis					
Aluminum	Al	0.012	< 0.005	-	mg/L
Antimony	Sb	< 0.001	< 0.001	0.006	mg/L
Arsenic	As	0.008	0.007	0.025	mg/L
Barium	Ba	0.011	0.016	1.0	mg/L
Boron	B	0.09	< 0.05	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	< 0.001	< 0.001	0.05	mg/L
Lead	Pb	< 0.001	0.001	0.01	mg/L
Magnesium	Mg	10.7	8.98	-	mg/L
Mercury	Hg	< 0.02	< 0.02	1	µg/L
Selenium	Se	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	18.2	18.6	-	mg/L
Magnesium	Mg	9.16	8.35	-	mg/L
Potassium	K	3.72	2.68	-	mg/L
Silicon	SiO2	18.5	18.5	-	mg/L
Microbiological Analysis					
Total Coliform (Confirmed)		< 1	< 1	not detected	Col / 100 mL

REPORTED TO: White Rock Utili Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

GCDWQ MAC SUMMARY: (Continued)

CLIENT SAMPLE ID	HEALTH	HARDNESS
#2 Oxford St. Well	Acceptable	Moderate
#3 Oxford St. Well	Acceptable	Moderate
#4 High St. Well	Acceptable	Moderate
#5 Beuna Vista Oxford Well	Acceptable	Moderate
#6 Merklin St. Wel	Acceptable	Moderate

TEST METHODS:

pH, Laboratory - pH analysis was performed in the laboratory using a pH meter. It must be recognized that the B.C. Ministry of Environment and other regulatory agencies recommend that pH be analyzed immediately upon sample collection. In light of this, pH measurements should be performed in the field.

Conventional Parameters - analyses were performed using procedures based on those described in "British Columbia Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (1994 Edition), Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" 19th Edition, (1995) and 17th Edition (1989), published by the American Public Health Association.

Mercury in Water - analysis was performed using procedures based on U. S. EPA Method 1631, oxidative digestion using bromination, and analysis using Cold Vapour Atomic Fluorescence Spectroscopy.

Metals in Water - analysis was performed using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP), Inductively Coupled Plasma-Mass Spectroscopy (ICP/MS) or Graphite Furnace Atomic Absorption Spectrophotometry.

TEST RESULTS:

(See following pages)

REPORTED TO: White Rock Util) Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Aesthetic Criteria) In Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St. Well	#2 Oxford St. Well	#3 Oxford St. Well	#4 High St. Well	Aesthetic Objective	UNITS
DATE SAMPLED:	May 23/00	May 23/00	May 23/00	May 23/00		
CANTEST ID:	005230204	005230205	005230206	005230207		
Conventional Parameters						
pH, Laboratory	7.82	7.82	7.92	7.96	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	0.10	0.10	< 0.1	0.75	5	NTU
Total Dissolved Solids	149	164	146	149	500	mg/L
Chloride Cl	15.5	13.4	12.1	6.9	250	mg/L
Sulphate SO4	11.1	16.7	10.4	12.3	500	mg/L
Total Metals Analysis						
Copper Cu	0.003	0.001	< 0.001	< 0.001	1.0	mg/L
Iron Fe	< 0.05	< 0.05	< 0.05	0.07	0.3	mg/L
Manganese Mn	0.065 X	0.016	0.15 X	0.16 X	0.05	mg/L
Zinc Zn	0.019	< 0.005	< 0.005	< 0.005	5	mg/L
Dissolved Metals Analysis						
Iron Fe	< 0.05	< 0.05	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.062 X	0.014	0.14 X	0.15 X	0.05	mg/L
Sodium Na	13.6	12.5	12.4	8.51	200	mg/L

CU = color units
 mg/L = milligrams per liter
 < = Less than detection limit
 X = Result is outside the Aesthetic Objective

NTU = nephelometric turbidity units

REPORTED TO: White Rock Utili Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Aesthetic Criteria) In Water

CLIENT SAMPLE IDENTIFICATION:		#5 Beuna Vista Oxford Well	#6 Merklin St. Wel		
DATE SAMPLED:		May 23/00	May 23/00	Aesthetic Objective	UNITS
CANTEST ID:		005230208	005230209		
Conventional Parameters					
pH, Laboratory		7.91	8.03	6.5 - 8.5	pH units
True Color		< 5	5	15	CU
Turbidity		0.10	0.10	5	NTU
Total Dissolved Solids		290	174	500	mg/L
Chloride	Cl	75.9	15.7	250	mg/L
Sulphate	SO4	22.1	10.9	500	mg/L
Total Metals Analysis					
Copper	Cu	0.002	< 0.001	1.0	mg/L
Iron	Fe	< 0.05	< 0.05	0.3	mg/L
Manganese	Mn	0.008	0.093 X	0.05	mg/L
Zinc	Zn	< 0.005	< 0.005	5	mg/L
Dissolved Metals Analysis					
Iron	Fe	< 0.05	< 0.05	0.3	mg/L
Manganese	Mn	0.008	0.086 X	0.05	mg/L
Sodium	Na	65.6	26.7	200	mg/L

CU = color units
 mg/L = milligrams per liter
 < = Less than detection limit
 X = Result is outside the Aesthetic Objective

NTU = nephelometric turbidity units

REPORTED TO: White Rock Utili) Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St. Well	#2 Oxford St. Well	#3 Oxford St. Well	#4 High St. Well		
DATE SAMPLED:	May 23/00	May 23/00	May 23/00	May 23/00	GCDWQ MAC	UNITS
CANTEST ID:	005230204	005230205	005230206	005230207		
Conventional Parameters						
Conductivity	230	249	219	220	-	µS/cm
Turbidity	0.10	0.10	< 0.1	0.75	1	NTU
Hardness CaCO3	76	101	81	97	-	mg/L
Total Alkalinity CaCO3	100	112	98.2	104	-	mg/L
Bicarbonate Alkalinity HCO3	122	136	120	127	-	mg/L
Carbonate Alkalinity CO3	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.10	0.09	0.10	0.08	1.5	mg/L
Nitrate and Nitrite N	< 0.05	0.31	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.31	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO4	11.1	16.7	10.4	12.3	-	mg/L
Total Metals Analysis						
Aluminum Al	0.018	0.005	0.006	0.012	-	mg/L
Antimony Sb	< 0.001	< 0.001	< 0.001	< 0.001	0.006	mg/L
Arsenic As	0.006	0.005	0.006	0.002	0.025	mg/L
Barium Ba	0.012	0.013	0.014	0.013	1.0	mg/L
Boron B	< 0.05	< 0.05	< 0.05	< 0.05	5	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.001	< 0.001	< 0.001	< 0.001	0.05	mg/L
Lead Pb	0.001	< 0.001	< 0.001	< 0.001	0.01	mg/L
Magnesium Mg	9.51	12.3	9.48	13.1	-	mg/L
Mercury Hg	< 0.02	< 0.02	< 0.02	< 0.02	1	µg/L
Selenium Se	< 0.002	< 0.002	< 0.002	< 0.002	0.01	mg/L
Uranium U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis						
Calcium Ca	17.5	21.3	17.6	19.2	-	mg/L
Magnesium Mg	7.75	11.7	8.91	11.8	-	mg/L
Potassium K	2.50	2.46	2.37	2.03	-	mg/L
Silicon SiO2	22.1	23.9	23.4	24.5	-	mg/L
Microbiological Analysis						

(Continued on next page)

REPORTED TO: White Rock Utili Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St. Well	#2 Oxford St. Well	#3 Oxford St. Well	#4 High St. Well		
DATE SAMPLED:	May 23/00	May 23/00	May 23/00	May 23/00	GCDWQ MAC	UNITS
CANTEST ID:	005230204	005230205	005230206	005230207		
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col /100 mL

μ S/cm = microsiemens per centimeter

mg/L = milligrams per liter

Col /100 mL = Colonies per 100 mL

< = Less than detection limit

NTU = nephelometric turbidity units

μ g/L = micrograms per liter

REPORTED TO: White Rock Utili Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Beuna Vista Oxford Well	#6 Merklin St. Wel		
DATE SAMPLED:		May 23/00	May 23/00	GCDWQ MAC	UNITS
CANTEST ID:		005230208	005230209		
Conventional Parameters					
Conductivity		505	271	-	µS/cm
Turbidity		0.10	0.10	1	NTU
Hardness	CaCO3	97	80	-	mg/L
Total Alkalinity	CaCO3	130	126	-	mg/L
Bicarbonate Alkalinity	HCO3	159	153	-	mg/L
Carbonate Alkalinity	CO3	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.13	0.21	1.5	mg/L
Nitrate and Nitrite	N	0.88	< 0.05	10	mg/L
Nitrate	N	0.88	< 0.05	10.0	mg/L
Nitrite	N	< 0.002	< 0.002	1.0	mg/L
Sulphate	SO4	22.1	10.9	-	mg/L
Total Metals Analysis					
Aluminum	Al	0.006	0.006	-	mg/L
Antimony	Sb	< 0.001	< 0.001	0.006	mg/L
Arsenic	As	0.008	0.009	0.025	mg/L
Barium	Ba	0.010	0.016	1.0	mg/L
Boron	B	0.07	< 0.05	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	0.001	< 0.001	0.05	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	12.4	9.39	-	mg/L
Mercury	Hg	< 0.02	< 0.02	1	µg/L
Selenium	Se	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	19.2	17.0	-	mg/L
Magnesium	Mg	12.0	9.10	-	mg/L
Potassium	K	3.76	3.12	-	mg/L
Silicon	SiO2	23.3	22.9	-	mg/L
Microbiological Analysis					

(Continued on next page)

REPORTED TO: White Rock Util. Ltd.



REPORT DATE: June 2, 2000

GROUP NUMBER: 20052344

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#5 Beuna Vista Oxford Well	#6 Merklin St. Wel		
DATE SAMPLED:	May 23/00	May 23/00		
CANTEST ID:	005230208	005230209	GCDWQ MAC	UNITS
Total Coliform (Confirmed)	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	not detected	Col./100 mL

μ S/cm = microsiemens per centimeter
mg/L = milligrams per liter
Col /100 mL = Colonies per 100 mL
< = Less than detection limit

NTU = nephelometric turbidity units
 μ g/L = micrograms per liter



RESULTS OF ANALYSIS - Water

File No. J2614

		Semiahm. B.O.	Semiahm. W.A.G.
		98 02 18	98 02 18
Physical Tests			
Colour	(CU)	<5	<5
Conductivity	(umhos/cm)	498	518
Total Dissolved Solids		273	264
Hardness	CaCO ₃	100	98.9
pH		7.48	7.45
Turbidity	(NTU)	<0.1	<0.1
Dissolved Anions			
Alkalinity-Total	CaCO ₃	117	119
Chloride	Cl	69.1	72.3
Fluoride	F	0.14	0.15
Sulphate	SO ₄	21	21
Nutrients			
Nitrate Nitrogen	N	0.794	0.824
Nitrite Nitrogen	N	<0.001	<0.001
Total Metals			
Aluminum	T-Al	<0.2	<0.2
Arsenic	T-As	0.0110	0.0087
Barium	T-Ba	0.01	0.02
Boron	T-B	<0.1	<0.1
Cadmium	T-Cd	<0.0002	<0.0002
Calcium	T-Ca	22.4	21.9
Chromium	T-Cr	<0.01	<0.01
Copper	T-Cu	0.01	0.04
Iron	T-Fe	<0.03	<0.03
Lead	T-Pb	<0.001	0.001
Magnesium	T-Mg	10.7	10.7
Manganese	T-Mn	<0.005	<0.005
Mercury	T-Hg	<0.00005	<0.00005
Potassium	T-K	4	4
Selenium	T-Se	0.0016	0.0011
Sodium	T-Na	57	58
Zinc	T-Zn	0.020	0.011

Remarks regarding the analyses appear at the beginning of this report.
 Results are expressed as milligrams per litre except for pH, Colour (CU),
 Conductivity (umhos/cm), and Turbidity (NTU).
 < = Less than the detection limit indicated.

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 19, 1998

GROUP NUMBER: S060820

Metals Analysis in Water

CLIENT SAMPLE IDENTIFICATION:	SAMPLE DATE	CAN TEST ID	Total Mercury Hg
#1 Oxford	Jun 8/98	306080108	<
#2 Oxford	Jun 8/98	306080109	<
#3 Oxford	Jun 8/98	306080110	<
#4 High St.	Jun 8/98	306080111	<
#5 Beuna Vista & Oxford	Jun 8/98	306080112	<
#6 Merklin	Jun 8/98	306080113	<
DETECTION LIMIT UNITS			0.05 $\mu\text{g/L}$

$\mu\text{g/L}$ = micrograms per liter

< = Less than detection limit

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 19, 1998

GROUP NUMBER: 8060820

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Beuna Vista & Oxford	#6 Merklein		
DATE SAMPLED:		Jun 8/98	Jun 8/98	GODWQ MAC	UNITS
CAN TEST ID:		806080112	806080113		
Conventional Parameters					
Conductivity		530	271	-	µS/cm
Turbidity		0.15	0.25	1	NTU
Hardness	CaCO ₃	101	80	-	mg/L
Bicarbonate Alkalinity	HCO ₃	152	142	-	mg/L
Carbonate Alkalinity	CO ₃	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.15	0.21	1.5	mg/L
Nitrate and Nitrite	N	0.94	< 0.05	10	mg/L
Nitrate	N	0.94	< 0.05	10.0	mg/L
Nitrite	N	0.003	< 0.002	1.0	mg/L
Sulphate	SO ₄	23.3	10.0	-	mg/L
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Faecal Coliform		< 1	< 1	not detected	Col./100 mL
Total Metals Analysis					
Arsenic	As	0.008	0.008	0.025	mg/L
Barium	Ba	0.013	0.016	1.0	mg/L
Boron	B	0.11	0.07	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	0.001	< 0.001	0.05	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	10.8	8.19	-	mg/L
Selenium	Se	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	22.7	18.4	-	mg/L
Magnesium	Mg	9.66	6.44	-	mg/L
Potassium	K	4.55	3.85	-	mg/L
Silicon	SiO ₂	19.1	19.8	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col/100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities L



REPORT DATE: June 19, 1998

GROUP NUMBER: 8060820

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford	#2 Oxford	#3 Oxford	#4 High St.	GCDWO MAC	UNITS
DATE SAMPLED:	Jun 8/98	Jun 8/98	Jun 8/98	Jun 8/98		
CAN TEST ID:	806080108	806080109	806080110	806080111		
Conventional Parameters						
Conductivity	239	265	228	232		μ S/cm
Turbidity	0.40	0.24	0.14	0.40	1	NTU
Hardness CaCO ₃	81	98	79	89		mg/L
Bicarbonate Alkalinity HCO ₃	111	125	114	124	-	mg/L
Carbonate Alkalinity CO ₃	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.11	0.09	0.12	0.09	1.5	mg/L
Nitrate and Nitrite N	< 0.05	0.27	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.27	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO ₄	11.1	16.2	10.5	12.2	-	mg/L
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Total Metals Analysis						
Arsenic As	0.006	0.005	0.006	0.003	0.025	mg/L
Barium Ba	0.015	0.015	0.016	0.019	1.0	mg/L
Boron B	0.07	0.07	0.07	< 0.05	5	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	0.0004	0.005	mg/L
Chromium Cr	< 0.001	< 0.001	< 0.001	< 0.001	0.05	mg/L
Lead Pb	< 0.001	< 0.001	< 0.001	< 0.001	0.01	mg/L
Magnesium Mg	7.95	9.85	7.51	9.15	-	mg/L
Selenium Se	< 0.002	< 0.002	< 0.002	< 0.002	0.01	mg/L
Uranium U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis						
Calcium Ca	19.2	23.0	19.1	20.4	-	mg/L
Magnesium Mg	7.30	8.98	7.32	8.30	-	mg/L
Potassium K	2.75	2.85	2.18	1.72	-	mg/L
Silicon SiO ₂	17.2	17.4	17.1	17.5	-	mg/L

μ S/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 19, 1998

GROUP NUMBER: 8060820

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#5 Beuna Vista & Oxford	#6 Merklin		
DATE SAMPLED:	Jun 8/98	Jun 8/98	Aesthetic Objective	UNITS
CAN TEST ID:	806080112	806080113		
Conventional Parameters				
pH, Laboratory	7.82	8.02	6.5 - 8.5	pH units
True Color	< 5	5	15	CU
Turbidity	0.15	0.25	5	NTU
Total Dissolved Solids	310	183	500	mg/L
Chloride Cl	86.3	13.3	250	mg/L
Sulphate SO4	23.3	10.0	500	mg/L
Total Metals Analysis				
Copper Cu	0.001	< 0.001	1.0	mg/L
Iron Fe	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.011	0.11 X	0.05	mg/L
Zinc Zn	< 0.005	0.019	5	mg/L
Dissolved Metals Analysis				
Iron Fe	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.009	0.10 X	0.05	mg/L
Sodium Na	66.0	24.2	200	mg/L

CU = color units
 mg/L = milligrams per liter
 < = Less than detection limit
 X = Result is outside the Aesthetic Objective

NTU = nephelometric turbidity units

Sodium Concentration in Water Supply

The Canadian Drinking Water Quality Guidelines set an aesthetic limit for sodium in drinking water at <200 mg/l with a recommendation of <20 mg/l for those on a sodium restricted diet. Only 2 of the 6 wells in White Rock exceed 20 mg/l but **DO NOT EXCEED** the Guidelines for Canadian Drinking Water Quality. Users required to restrict their sodium intake for medical reasons should consult their physicians for medical advice if concerned.

White Rock Utilities Limited

REPORTED TO: White Rock Utilities Ltd.

CANTEST

REPORT DATE: June 19, 1998

GROUP NUMBER: 8060820

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford	#2 Oxford	#3 Oxford	#4 High St.	Aesthetic Objective	UNITS
DATE SAMPLED:	Jun 8/98	Jun 6/98	Jun 8/98	Jun 8/98		
CANTEST ID:	806080106	806080109	806080110	806080111		
Conventional Parameters						
pH, Laboratory	7.77	7.80	7.87	7.97	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	0.40	0.24	0.14	0.40	5	NTU
Total Dissolved Solids	143	157	135	137	500	mg/L
Chloride Cl	16.3	13.5	11.2	7.2	250	mg/L
Sulphate SO4	11.1	16.2	10.5	12.2	500	mg/L
Total Metals Analysis						
Copper Cu	< 0.001	0.002	0.001	0.003	1.0	mg/L
Iron Fe	< 0.05	< 0.05	< 0.05	0.09	0.3	mg/L
Manganese Mn	0.076 X	0.019	0.19 X	0.19 X	0.05	mg/L
Zinc Zn	< 0.005	0.007	0.012	< 0.005	5	mg/L
Dissolved Metals Analysis						
Iron Fe	< 0.05	< 0.05	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.074 X	0.018	0.18 X	0.18 X	0.05	mg/L
Sodium Na	13.9	12.0	11.3	7.33	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the Aesthetic Objective

REPORTED TO: White Rock Utilities Ltd.

CANTEST

REPORT DATE: June 7, 1999

GROUP NUMBER: 9053139

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St.	#2 Oxford St.	#3 Oxford St.	#4 High St.		
DATE SAMPLED:	May 31/99	May 31/99	May 31/99	May 31/99	Aesthetic Objective	UNITS
CAN TEST ID:	905310121	905310122	905310123	905310124		
Conventional Parameters						
pH, Laboratory	7.84	7.79	7.88	7.90	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	< 0.1	< 0.1	< 0.1	0.20	5	NTU
Total Dissolved Solids	141	154	138	143	500	mg/L
Chloride Cl	16.1	13.3	11.8	7.4	250	mg/L
Sulphate SO ₄	11.2	16.2	10.7	13.1	500	mg/L
Total Metals Analysis						
Copper Cu	< 0.001	< 0.001	< 0.001	< 0.001	1.0	mg/L
Iron Fe	< 0.05	< 0.05	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.061 X	0.014	0.17 X	0.16 X	0.05	mg/L
Zinc Zn	< 0.005	< 0.005	< 0.005	< 0.005	5	mg/L
Dissolved Metals Analysis						
Iron Fe	< 0.05	< 0.05	< 0.05	< 0.05	0.3	mg/L
Manganese Mn	0.059 X	0.014	0.15 X	0.16 X	0.05	mg/L
Sodium Na	12.3	10.4	10.5	6.93	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the Aesthetic Objective

REPORTED TO: White Rock Utilities Ltd.

CANTEST

REPORT DATE: June 7, 1999

GROUP NUMBER: 9053139

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Beuna Vista & Oxford	#6 Merkin St.		
DATE SAMPLED:		May 31/99	May 31/99	Aesthetic Objective	UNITS
CAN TEST ID:		905310125	905310126		
Conventional Parameters					
pH, Laboratory		7.84	7.97	6.5 - 8.5	pH units
True Color		< 5	< 5	15	CU
Turbidity		< 0.1	0.10	5	NTU
Total Dissolved Solids		285	153	500	mg/L
Chloride	Cl	77.2	9.7	250	mg/L
Sulphate	SO4	22.9	10.1	500	mg/L
Total Metals Analysis					
Copper	Cu	0.001	< 0.001	1.0	mg/L
Iron	Fe	< 0.05	0.07	0.3	mg/L
Manganese	Mn	0.008	0.080 X	0.05	mg/L
Zinc	Zn	< 0.005	< 0.005	5	mg/L
Dissolved Metals Analysis					
Iron	Fe	< 0.05	< 0.05	0.3	mg/L
Manganese	Mn	0.008	0.088 X	0.05	mg/L
Sodium	Na	55.1	17.7	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the Aesthetic Objective

REPORTED TO: White Rock Utilities Ltd.

CANTEST

REPORT DATE: June 7, 1999

GROUP NUMBER: 9053139

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St.	#2 Oxford St.	#3 Oxford St.	#4 High St.	GCDWQ MAC UNITS	
DATE SAMPLED:	May 31/99	May 31/99	May 31/99	May 31/99		
CAN TEST ID:	905310121	905310122	905310123	905310124		
Conventional Parameters						
Conductivity	232	252	218	222	-	μ S/cm
Turbidity	< 0.1	< 0.1	< 0.1	0.20	1	NTU
Hardness CaCO ₃	73	89	74	87	-	mg/L
Bicarbonate Alkalinity HCO ₃	110	123	116	125	-	mg/L
Carbonate Alkalinity CO ₃	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.06	0.07	0.07	< 0.05	1.5	mg/L
Nitrate and Nitrite N	< 0.05	0.25	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.25	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO ₄	11.2	16.2	10.7	13.1	-	mg/L
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col. 100 mL
Total Metals Analysis						
Arsenic As	< 0.001	< 0.001	< 0.001	< 0.001	0.025	mg/L
Barium Ba	0.013	0.014	0.015	0.014	1.0	mg/L
Boron B	0.08	0.06	< 0.05	< 0.05	5	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.001	< 0.001	< 0.001	< 0.001	0.05	mg/L
Lead Pb	< 0.001	< 0.001	< 0.001	< 0.001	0.01	mg/L
Magnesium Mg	8.54	8.81	7.19	9.00	-	mg/L
Mercury Hg	< 0.05	< 0.05	< 0.05	< 0.05	1	μ g/L
Selenium Se	< 0.002	< 0.002	< 0.002	< 0.002	0.01	mg/L
Uranium U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis						
Calcium Ca	17.4	21.2	17.7	20.1	-	mg/L
Magnesium Mg	7.19	8.68	7.05	8.39	-	mg/L
Potassium K	2.42	2.62	2.28	2.23	-	mg/L
Silicon SiO ₂	19.1	20.0	20.0	21.6	-	mg/L

 μ S/cm = microsiemens per centimeter

mg/L = milligrams per liter

 μ g/L = micrograms per liter

< = Less than detection limit

NTU = nephelometric turbidity units

Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities Ltd.

CANTEST

REPORT DATE: June 7, 1999

GROUP NUMBER: 9053139

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Beuna Vista & Oxford	#6 Merkin St.		
DATE SAMPLED:		May 31/99	May 31/99	GCDWQ MAC UNITS	
CAN TEST ID:		905310125	905310126		
Conventional Parameters					
Conductivity		510	235	-	μ S/cm
Turbidity		< 0.1	0.10	1	NTU
Hardness	CaCO ₃	88	70	-	mg/L
Bicarbonate Alkalinity	HCO ₃	153	139	-	mg/L
Carbonate Alkalinity	CO ₃	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.07	0.19	1.5	mg/L
Nitrate and Nitrite	N	0.88	< 0.05	10	mg/L
Nitrate	N	0.88	< 0.05	10.0	mg/L
Nitrite	N	< 0.002	< 0.002	1.0	mg/L
Sulphate	SO ₄	22.9	10.1	-	mg/L
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	not detected	Col./100 mL
Total Metals Analysis					
Arsenic	As	< 0.001	< 0.001	0.025	mg/L
Barium	Ba	0.010	0.015	1.0	mg/L
Boron	B	0.10	0.06	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	< 0.001	< 0.001	0.05	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	9.35	6.86	-	mg/L
Mercury	Hg	< 0.05	< 0.05	1	μ g/L
Selenium	Se	< 0.002	< 0.002	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	19.7	16.4	-	mg/L
Magnesium	Mg	8.82	6.57	-	mg/L
Potassium	K	3.85	2.97	-	mg/L
Silicon	SiO ₂	20.3	19.3	-	mg/L

 μ S/cm = microsiemens per centimeter

mg/L = milligrams per liter

 μ g/L = micrograms per liter

< = Less than detection limit

NTU = nephelometric turbidity units

Col./100 mL = Colonies per 100 mL

Barb Jones Post on WSAC's

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 15, 1996

GROUP NUMBER: 6043011

P

Potability Criteria in Water 09A00015 / 09A00016 / 09A00017 / 09A00018

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Street	#2 Oxford Street	#3 Oxford Street	#4 High Street		
DATE SAMPLED:	Apr 30/96	Apr 30/96	Apr 30/96	Apr 30/96	<i>not entered</i>	
CAN TEST ID:	604300022	604300023	604300024	604300025	GCDWQ MAC	UNITS
Physical Tests						
Conductivity	238	256	228	218	-	µS/cm
Turbidity	0.17	0.19	0.20	0.31	1	NTU
Hardness CaCO3	77	93	78	84	-	mg/L
Dissolved Anions						
Bicarbonate Alkalinity HCO3	110	119	111	114	-	mg/L
Carbonate Alkalinity CO3	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.25	0.32	0.33	0.25	-	mg/L
Nitrate and Nitrite NO3 NO2	< 0.05	< 0.05	< 0.05	< 0.05	10	mg/L
Nitrate NO3	< 0.05	< 0.05	< 0.05	< 0.05	10.0	mg/L
Nitrite NO2	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO4	11	11	11	11	-	mg/L
Microbiological Analysis						
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Total Metals						
Arsenic As	0.007	0.005	0.007	0.003	0.025	mg/L
Barium Ba	0.015	0.017	0.017	0.017	1.0	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.03	< 0.03	< 0.03	< 0.03	0.05	mg/L
Copper Cu	< 0.02	< 0.02	< 0.02	< 0.02	-	mg/L
Lead Pb	< 0.001	< 0.001	< 0.001	< 0.001	0.01	mg/L
Magnesium Mg	7.66	9.52	7.78	8.59	-	mg/L
Selenium Se	< 0.001	0.004	< 0.001	0.002	0.01	mg/L
Dissolved Metals						
Calcium Ca	18.7	22.1	18.9	19.4	-	mg/L
Magnesium Mg	7.36	9.14	7.40	8.52	-	mg/L
Potassium K	2.66	2.74	2.55	2.21	-	mg/L
Silicon SiO2	20.7	21.2	20.9	21.8	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

Dissolved metals not entered

Alb 06 - 10

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 15, 1996

GROUP NUMBER: 6043011

9

Canadian Drinking Guide Aesthetic Objective in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford Street	#2 Oxford Street	#3 Oxford Street	#4 High Street	AESTHETIC OBJECTIVE	UNITS
DATE SAMPLED:	Apr 30/96	Apr 30/96	Apr 30/96	Apr 30/96		
CAN TEST ID:	604300022	604300023	604300024	604300025		
Physical Tests						
pH	7.94	7.70	8.03	8.02	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	0.17	0.19	0.20	0.31	5	NTU
Total Dissolved Solids	202	213	195	190	500	mg/L
Dissolved Anions						
Chloride	Cl	15.7	15.7	11.1	6.0	250 mg/L
Sulphate	SO4	11	11	11	11	500 mg/L
Total Metals						
Copper	Cu	< 0.02	< 0.02	< 0.02	< 0.02	1.0 mg/L
Iron	Fe	< 0.03	< 0.03	< 0.03	0.10	0.3 mg/L
Manganese	Mn	0.073 X	0.011	0.17 X	0.16 X	0.05 mg/L
Zinc	Zn	< 0.02	< 0.02	< 0.02	< 0.02	5 mg/L
Dissolved Metals						
Iron	Fe	< 0.03	< 0.03	< 0.03	< 0.03	0.3 mg/L
Manganese	Mn	0.070 X	0.008	0.16 X	0.17 X	0.05 mg/L
Sodium	Na	13.8	11.9	11.4	7.7	200 mg/L

CU = color units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the AESTHETIC OBJECTIVE

NTU = nephelometric turbidity units

Dissolved metals not entered
96-06-10

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 15, 1996

GROUP NUMBER: 6043011

Potability Criteria in Water

0980023 04A0024

CLIENT SAMPLE IDENTIFICATION:		#5 Buena Vista & Oxford	#6 Merklin Street		
DATE SAMPLED:		Apr 30/96	Apr 30/96	GCDWQ MAC	UNITS
CAN TEST ID:		604300026	604300027		
Physical Tests					
Conductivity		551	249	-	µS/cm
Turbidity		0.13	0.18	1	NTU
Hardness	CaCO3	96	75	-	mg/L
Dissolved Anions					
Bicarbonate Alkalinity	HCO3	152	139	-	mg/L
Carbonate Alkalinity	CO3	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.35	0.39	-	mg/L
Nitrate and Nitrite	N	0.89	< 0.05	10	mg/L
Nitrate	N ₀₃	0.89	< 0.05	10.0	mg/L
Nitrite	N ₀₂	< 0.002	< 0.002	1.0	mg/L
Sulphate	SO4	23	11	-	mg/L
Microbiological Analysis					
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	not detected	Col./100 mL
Total Metals					
Arsenic	As	0.007	0.010	0.025	mg/L
Barium	Ba	0.014	0.018	1.0	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	< 0.03	< 0.03	0.05	mg/L
Copper	Cu	< 0.02	< 0.02	-	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	10.5	7.88	-	mg/L
Selenium	Se	0.001	< 0.001	0.01	mg/L
Dissolved Metals					
Calcium	Ca	21.9	17.7	-	mg/L
Magnesium	Mg	10.1	7.46	-	mg/L
Potassium	K	4.57	3.22	-	mg/L
Silicon	SiO2	20.8	20.2	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

Dissolved metals not analyzed 96-D6-10

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: May 15, 1996

GROUP NUMBER: 6043011

Canadian Drinking Guide Aesthetic Objective in Water

CLIENT SAMPLE IDENTIFICATION:		#5 Buena Vista & Oxford	#6 Meridin Street		
DATE SAMPLED:		Apr 30/96	Apr 30/96	<i>not entered</i>	
CAN TEST ID:		604300026	604300027	AESTHETIC OBJECTIVE	UNITS
Physical Tests					
pH		7.74	8.09	6.5 - 8.5	pH units
True Color		< 5	< 5	15	CU
Turbidity		0.13	0.18	5	NTU
Total Dissolved Solids		400	200	500	mg/L
Dissolved Anions					
Chloride	Cl	87.8	6.2	250	mg/L
Sulphate	SO4	23	11	500	mg/L
Total Metals					
Copper	Cu	< 0.02	< 0.02	1.0	mg/L
Iron	Fe	< 0.03	0.05	0.3	mg/L
Manganese	Mn	0.011	0.11 X	0.05	mg/L
Zinc	Zn	< 0.02	0.35	5	mg/L
Dissolved Metals					
Iron	Fe	< 0.03	< 0.03	0.3	mg/L
Manganese	Mn	0.011	0.099 X	0.05	mg/L
Sodium	Na	66.3	19.4	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the AESTHETIC OBJECTIVE

dissolved metals not entered 96-06-10

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 10, 1997

GROUP NUMBER: 7052725

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St.	#2 Oxford St.	#3 Oxford St.	#4 High St.		
DATE SAMPLED:	May 27/97	May 27/97	May 27/97	May 27/97	Aesthetic Objective	UNITS
CAN TEST ID:	705270064	705270065	705270066	705270067		
Conventional Parameters						
pH	7.66	7.50	7.67	7.70	6.5 - 8.5	pH units
True Color	< 5	< 5	< 5	< 5	15	CU
Turbidity	< 0.1	< 0.1	0.13	0.11	5	NTU
Total Dissolved Solids	200	218	195	193	500	mg/L
Chloride Cl	16.3	13.2	11.0	6.2	250	mg/L
Sulphate SO4	11	15	10	10	500	mg/L
Total Metals Analysis						
Copper Cu	< 0.02	< 0.02	< 0.02	< 0.02	1.0	mg/L
Iron Fe	< 0.03	< 0.03	< 0.03	< 0.03	0.3	mg/L
Manganese Mn	0.079 X	0.019	0.19 X	0.19 X	0.05	mg/L
Zinc Zn	< 0.02	< 0.02	< 0.02	< 0.02	5	mg/L
Dissolved Metals Analysis						
Iron Fe	< 0.03	< 0.03	< 0.03	< 0.03	0.3	mg/L
Manganese Mn	0.077 X	0.018	0.17 X	0.17 X	0.05	mg/L
Sodium Na	13.9	11.1	10.9	7.5	200	mg/L

CU = color units
 mg/L = milligrams per liter
 < = Less than detection limit
 X = Result is outside the Aesthetic Objective

NTU = nephelometric turbidity units

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 10, 1997

GROUP NUMBER: 7052725

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 B.U. + Oxford	#6 Merklin St.		
DATE SAMPLED:		May 27/97	May 27/97		
CAN TEST ID:		705270068	705270069	Aesthetic Objective	UNITS
Conventional Parameters					
pH		7.61	7.81	6.5 - 8.5	pH units
True Color		< 5	< 5	15	CU
Turbidity		0.14	< 0.1	5	NTU
Total Dissolved Solids		510 X	275	500	mg/L
Chloride	Cl	139	34.3	250	mg/L
Sulphate	SO4	30	12	500	mg/L
Total Metals Analysis					
Copper	Cu	< 0.02	< 0.02	1.0	mg/L
Iron	Fe	< 0.03	< 0.03	0.3	mg/L
Manganese	Mn	0.017	0.12 X	0.05	mg/L
Zinc	Zn	< 0.02	< 0.02	5	mg/L
Dissolved Metals Analysis					
Iron	Fe	< 0.03	< 0.03	0.3	mg/L
Manganese	Mn	0.014	0.11 X	0.05	mg/L
Sodium	Na	97.2	29.5	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is outside the Aesthetic Objective

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 10, 1997

GROUP NUMBER: 7052725

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford St.	#2 Oxford St.	#3 Oxford St.	#4 High St.	GCDWQ MAC	UNITS
DATE SAMPLED:	May 27/97	May 27/97	May 27/97	May 27/97		
CAN TEST ID:	705270064	705270065	705270066	705270067		
Conventional Parameters						
Conductivity	239	262	226	222	-	µS/cm
Turbidity	< 0.1	< 0.1	0.13	0.11	1	NTU
Hardness CaCO3	79	92	78	85	-	mg/L
Bicarbonate Alkalinity HCO3	108	122	110	118	-	mg/L
Carbonate Alkalinity CO3	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	< 0.05	< 0.05	< 0.05	< 0.05	1.5	mg/L
Nitrate and Nitrite N	< 0.05	0.26	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.26	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO4	11	15	10	10	-	mg/L
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Total Metals Analysis						
Arsenic As	0.006	< 0.001	0.006	< 0.001	0.025	mg/L
Barium Ba	0.013	0.016	0.016	0.016	1.0	mg/L
Boron B	0.01	0.02	0.02	0.01	5	mg/L
Cadmium Cd	0.0008	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.03	< 0.03	< 0.03	< 0.03	0.05	mg/L
Copper Cu	< 0.02	< 0.02	< 0.02	< 0.02	-	mg/L
Lead Pb	0.009	< 0.001	0.001	< 0.001	0.01	mg/L
Magnesium Mg	7.48	9.72	7.84	9.09	-	mg/L
Mercury Hg	< 0.05	< 0.05	< 0.05	< 0.05	1	µg/L
Selenium Se	0.001	0.013 X	< 0.001	< 0.001	0.01	mg/L
Uranium U	< 0.0005	< 0.0005	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis						
Calcium Ca	19.4	22.1	19.1	19.9	-	mg/L
Magnesium Mg	7.43	8.98	7.30	8.58	-	mg/L
Potassium K	2.77	2.71	2.60	2.28	-	mg/L
Silicon SiO2	23.3	22.3	22.8	23.6	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 µg/L = micrograms per liter
 < = Less than detection limit
 X = Result is outside the GCDWQ MAC

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities Ltd.



REPORT DATE: June 10, 1997

GROUP NUMBER: 7052725

Potability (Health Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		#5 B.U. + Oxford	#6 Merklin St.		
DATE SAMPLED:		May 27, 97	May 27, 97	GCDWQ MAC	UNITS
CAN TEST ID:		705270068	705270069		
Conventional Parameters					
Conductivity		748	332	-	µS/cm
Turbidity		0.14	< 0.1	1	NTU
Hardness	CaCO ₃	110	83	-	mg/L
Bicarbonate Alkalinity	HCO ₃	176	146	-	mg/L
Carbonate Alkalinity	CO ₃	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.08	< 0.05	1.5	mg/L
Nitrate and Nitrite	N	0.37	< 0.05	10	mg/L
Nitrate	N	0.37	< 0.05	10.0	mg/L
Nitrite	N	0.003	< 0.002	1.0	mg/L
Sulphate	SO ₄	30	12	-	mg/L
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	not detected	Col./100 mL
Total Metals Analysis					
Arsenic	As	0.007	0.007	0.025	mg/L
Barium	Ba	0.017	0.021	1.0	mg/L
Boron	B	0.12	0.05	5	mg/L
Cadmium	Cd	< 0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	< 0.03	< 0.03	0.05	mg/L
Copper	Cu	< 0.02	< 0.02	-	mg/L
Lead	Pb	< 0.001	< 0.001	0.01	mg/L
Magnesium	Mg	12.5	9.21	-	µg/L
Mercury	Hg	< 0.05	< 0.05	1	µg/L
Selenium	Se	< 0.001	< 0.001	0.01	mg/L
Uranium	U	< 0.0005	< 0.0005	0.1	mg/L
Dissolved Metals Analysis					
Calcium	Ca	25.2	19.4	-	mg/L
Magnesium	Mg	11.4	8.34	-	mg/L
Potassium	K	5.46	3.60	-	mg/L
Silicon	SiO ₂	22.2	21.6	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 µg/L = micrograms per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

\$1.00

J.

REPORTED TO: White Rock Utilities Ltd.

REPORT DATE: June 27, 1995

GROUP NUMBER: 5061314

CANTEST

#1 09A00007
 #2 09A00010
 #3 09A00011
 #4 09A00012

Potability Criteria In Water

P P P P

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford	#2 Oxford	#3 Oxford	#4 High St.		
DATE SAMPLED:	Jun 13/95	Jun 13/95	Jun 13/95	Jun 13/95	GCDWQ MAC	UNITS
CAN TEST ID:	506130038	506130039	506130040	506130041		
Physical Tests						
Conductivity	235	253	211	210	-	μ S/cm
Turbidity	< 0.1	< 0.1	0.64	0.77	1	NTU
Hardness CaCO ₃	82	97	75	78	-	mg/L
Dissolved Anions						
Bicarbonate Alkalinity HCO ₃	105	114	106	108	-	mg/L
Carbonate Alkalinity CO ₃	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity OH	< 0.5	< 0.5	< 0.5	< 0.5	-	mg/L
Fluoride F	0.07	0.07	0.07	0.07	-	mg/L
Nitrate and Nitrite N	< 0.05	0.15	< 0.05	< 0.05	10	mg/L
Nitrate N	< 0.05	0.15	< 0.05	< 0.05	10.0	mg/L
Nitrite N	< 0.002	< 0.002	< 0.002	< 0.002	1.0	mg/L
Sulphate SO ₄	11	15	9.8	10	-	mg/L
Microbiological Analysis						
Total Coliform (Confirmed)	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Fecal Coliform	< 1	< 1	< 1	< 1	not detected	Col./100 mL
Total Metals						
Arsenic As	< 0.001	0.007	0.006	0.003	0.025	mg/L
Barium Ba	0.012	0.015	0.021	0.018	1.0	mg/L
Cadmium Cd	< 0.0002	< 0.0002	< 0.0002	< 0.0002	0.005	mg/L
Chromium Cr	< 0.03	< 0.03	< 0.03	< 0.03	0.05	mg/L
Copper Cu	< 0.015	< 0.015	< 0.015	< 0.015	1.0	mg/L
Lead Pb	0.001	0.001	0.003	0.001	0.01	mg/L
Magnesium Mg	7.64	9.38	7.13	8.44	-	mg/L
Selenium Se	< 0.001	0.005	< 0.001	< 0.001	0.01	mg/L
Dissolved Metals						
Calcium Ca	20.9	24.1	18.7	18.4	-	mg/L
Magnesium Mg	7.29	8.89	6.87	7.69	-	mg/L
Potassium K	2.68	2.70	2.36	2.06	-	mg/L
Silicon SiO ₂	22.0	21.9	19.4	21.9	-	mg/L

μ S/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities Ltd.

REPORT DATE: June 27, 1995

GROUP NUMBER: 5061314



Canadian Drinking Guide Aesthetic Objective in Water

CLIENT SAMPLE IDENTIFICATION:	#1 Oxford	#2 Oxford	#3 Oxford	#4 High St.	AESTHETIC OBJECTIVE	UNITS
	P	P	P	P		
DATE SAMPLED:	Jun 13/95	Jun 13/95	Jun 13/95	Jun 13/95		
CAN TEST ID:	506130038	506130039	506130040	506130041		
Physical Tests						
pH	8.09	7.88	7.95	8.02	6.5 - 8.5	pH units
True Color	< 5	< 5	5	< 5	15	CU
Turbidity	< 0.1	< 0.1	0.64	0.77	5	NTU
Total Dissolved Solids	190	205	170	170	500	mg/L
Dissolved Anions						
Chloride	Cl	17.1	14.6	9.5	6.1	250 mg/L
Sulphate	SO4	11	15	9.8	10	500 mg/L
Total Metals						
Copper	Cu	< 0.015	< 0.015	< 0.015	< 0.015	1.0 mg/L
Iron	Fe	< 0.03	< 0.03	1.14 X	0.17	0.3 mg/L
Manganese	Mn	0.083 X	0.040	0.90 X	0.15 X	0.05 mg/L
Zinc	Zn	< 0.015	< 0.015	< 0.015	< 0.015	5 mg/L
Dissolved Metals						
Iron	Fe	< 0.03	< 0.03	< 0.03	< 0.03	0.3 mg/L
Manganese	Mn	0.079 X	0.026	< 0.003	0.11 X	0.05 mg/L
Sodium	Na	13.3	11.0	10.2	8.0	200 mg/L

CU = color units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is greater than AESTHETIC OBJECTIVE

NTU = nephelometric turbidity units

#5 ⇒ # 09A 00010
 #6 ⇒ # 09A 00014

REPORTED TO: White Rock Utilities Ltd.

REPORT DATE: June 27, 1995

GROUP NUMBER: 5061314

CANTEST

P P
Potability Criteria In Water

CLIENT SAMPLE IDENTIFICATION:		#5 Buena Vista & Oxford	#6 Merklin		
DATE SAMPLED:		Jun 13/95	Jun 13/95	GCDWQ MAC	UNITS
CAN TEST ID:		506130042	506130043		
Physical Tests					
Conductivity		546	369	-	µS/cm
Turbidity		0.12	0.12	1	NTU
Hardness	CaCO ₃	96	85	-	mg/L
Dissolved Anions					
Bicarbonate Alkalinity	HCO ₃	146	144	-	mg/L
Carbonate Alkalinity	CO ₃	< 0.5	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	< 0.5	-	mg/L
Fluoride	F	0.12	0.17	-	mg/L
Nitrate and Nitrite	N	1.0	< 0.05	10	mg/L
Nitrate	N	1.0	< 0.05	10.0	mg/L
Nitrite	N	0.003	< 0.002	1.0	mg/L
Sulphate	SO ₄	28	14	-	mg/L
Microbiological Analysis					
Total Coliform (Confirmed)		< 1	< 1	not detected	Col./100 mL
Fecal Coliform		< 1	< 1	not detected	Col./100 mL
Total Metals					
Arsenic	As	0.010	0.011	0.025	mg/L
Barium	Ba	0.012	0.021	1.0	mg/L
Cadmium	Cd	0.0002	< 0.0002	0.005	mg/L
Chromium	Cr	< 0.03	< 0.03	0.05	mg/L
Copper	Cu	< 0.015	< 0.015	1.0	mg/L
Lead	Pb	0.001	< 0.001	0.01	mg/L
Magnesium	Mg	10.3	8.90	-	mg/L
Selenium	Se	0.001	< 0.001	0.01	mg/L
Dissolved Metals					
Calcium	Ca	22.2	20.1	-	mg/L
Magnesium	Mg	9.75	8.47	-	mg/L
Potassium	K	5.07	4.03	-	mg/L
Silicon	SiO ₂	21.4	20.5	-	mg/L

µS/cm = microsiemens per centimeter
 mg/L = milligrams per liter
 < = Less than detection limit

NTU = nephelometric turbidity units
 Col./100 mL = Colonies per 100 mL

REPORTED TO: White Rock Utilities Ltd.

REPORT DATE: June 27, 1995

GROUP NUMBER: 5061314

CANTEST

Canadian Drinking Guide Aesthetic Objective in Water *P X*

CLIENT SAMPLE IDENTIFICATION:		#5 Buena Vista & Oxford	#6 Merklin		
DATE SAMPLED:		Jun 13/95	Jun 13/95	AESTHETIC OBJECTIVE	UNITS
CAN TEST ID:		506130042	506130043		
Physical Tests					
pH		7.84	7.89	6.5 - 8.5	pH units
True Color		< 5	< 5	15	CU
Turbidity		0.12	0.12	5	NTU
Total Dissolved Solids		440	300	500	mg/L
Dissolved Anions					
Chloride	Cl	90.6	40.1	250	mg/L
Sulphate	SO4	28	14	500	mg/L
Total Metals					
Copper	Cu	< 0.015	< 0.015	1.0	mg/L
Iron	Fe	< 0.03	< 0.03	0.3	mg/L
Manganese	Mn	0.012	0.12 X	0.05	mg/L
Zinc	Zn	< 0.015	< 0.015	5	mg/L
Dissolved Metals					
Iron	Fe	< 0.03	< 0.03	0.3	mg/L
Manganese	Mn	0.010	0.11 X	0.05	mg/L
Sodium	Na	66.7	39.4	200	mg/L

CU = color units

mg/L = milligrams per liter

< = Less than detection limit

X = Result is greater than AESTHETIC OBJECTIVE

NTU = nephelometric turbidity units