



February 11, 2013



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Nunalingni Kavamatkunillu Pivikhaqautikkut
Department of Community Government Services
Ministère des Services communautaires et gouvernementaux

Part H, item 9: Quality Assurance/Quality Control (QA/QC) Plan:

- CGS is currently following QA/QC plan of the accredited lab:

Caduceon Environmental Laboratories

2378 Holly Lane,
Ottawa, ON, Canada K1V 7P1
Tel: (613) 526-0123
Fax: (613) 526-1244
Website: www.caduceonlabs.com

However, exp will prepare QA/QC plan and get approved by Caduceon prior to include in the new O&M manual of the new Wastewater Treatment Plant and the optimized Utilidor system. This document will be submitted to NWB prior to commissioning. This process is in progress right now.

In these circumstances, we request to renew the Water License in order to maintain the system and complete design works for optimization.

I will appreciate if you keep me in the loop of the approving process. If you have questions or concerns, please contact me at any time.

Sincerely,

Bhabesh Roy, M.A.Sc., P.Eng.
Municipal Planning Engineer
Community Government Services
Baffin Region, Government of Nunavut
P.O.Box 379, Pond Inlet, X0A 0S0
Ph-867 899 7314
Fax-867 899 7328
E-mail: broy@gov.nu.ca

Copy: Timoon Toonoo, Regional Director, Baffin Region, GN-CGS
Paul Diamond, Senior Manager Project and Asset Management Divisions, Baffin Region, GN-CGS
Bu Lam, Director, Capital Planning, GN-CGS
Martha Kalluk, SAO, Hamlet of Resolute Bay
Art Stewart, Acting Director, Transportation Policy and Planning, GN-ED&T

From: Erik Skiby [mailto:eskiby@nunavutwaterboard.org]
Sent: Friday, February 08, 2013 10:10 AM
To: Roy, Bhabesh
Cc: Phyllis Beaulieu
Subject: Preliminary Technical Review 3BM-RUT1012
Importance: High

Good Morning Bhabesh,

Just a reminder that the items listed below (see –email) are outstanding and your renewal application is still considered incomplete, if you have any questions please don't hesitate to contact me.

Thanks,

Erik

 Please consider the environment before printing this email



Erik Skiby
Assistant Technical Advisor

Nunavut Water Board ᓄᓇᐅᑦ ᐃᓕᓕᓂᑦ ᑲᓂᓴᑦ NUNAVUT IMALIRIYIN KATIMAYIT Office Des Eaux Du Nunavut
P.O. Box 119 Gjoa Haven, NU X0B 1J0 Tel. 867.360.6338 Fax. 867.360.6369

Email: eskiby@nunavutwaterboard.org The Nunavut Water Board website is available at: www.nunavutwaterboard.org

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From: Erik Skiby
Sent: Monday, October 15, 2012 9:11 AM
To: GN-CGS Bhabesh Roy
Cc: Phyllis Beaulieu
Subject: Preliminary Technical Review 3BM-RUT1012

Hi Bhabesh,

I am the technical advisor assigned to the above noted file, upon further review of the information provided and the licence requirements. The renewal application is considered incomplete.

The following is a list of outstanding documents:

- As per Part C, Item 4. Report: Assessment for the potential for Char Lake to Be Drawn Down
- As per Part D, Item 4. Study: Determination of fecal Coliform Limit for Sewage Disposal Facility Effluent
- As per Part F, Item 1. Operation and Maintenance (O&M), including section a to e.
- As per Part G, Item 1. Abandonment and Restoration Plan shall incorporate section a to I, where applicable.
- As per Part H, Item 9. Quality Assurance/Quality Control (QA/QC) Plan

The above mentioned documents are required for the application to be considered complete and continue on with the renewal process, if unable to provide, then in the interim, a Plan for Compliance must be submitted that clearly demonstrates the measures the Licensee will undertake, including an implementation schedule, to achieve full compliance with the conditions of this Licence, including the issues raised in the Inspector's Reports.

If you have any further questions please don't hesitate to contact me at your earliest convenience.



Please consider the environment before printing this email



Erik Skiby
Assistant Technical Advisor

Nunavut Water Board ᓄᓇᖃᖅ ᐃᓚᓕᓂᐱᖅ ᑲᓂᓚᖅ NUNAVUT IMALIRIYIN KATIMAYIT Office Des Eaux Du Nunavut
P.O. Box 119 Gjoa Haven, NU X0B 1J0 Tel. 867.360.6338 Fax. 867.360.6369

Email: eskiby@nunavutwaterboard.org The Nunavut Water Board website is available at: www.nunavutwaterboard.org

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From: Phyllis Beaulieu
Sent: Tuesday, October 02, 2012 4:16 PM
To: Phyllis Beaulieu
Cc: GN-CGS Bhabesh Roy
Subject: 121002 3BM-RUT1012 2010 and 2011 Annual Reports

Attached for your information are copies of the 2010 and 2011 annual reports for Resolute Bay. Our office has been requested by GN-CGS to disregard the previous 2011 report dated 120223 and replace it with the attached, dated 120928.

Regards,

Phyllis Beaulieu
Manager of Licensing
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0
Phone: (867) 360-6338, Ext. 27
Fax: (867) 360-6369
Email: licensing@nunavutwaterboard.org

C.O.C.: G27861

REPORT No. B12-23825

Report To:

Resolute Bay

Government Office,
NU X0A 0V0 Canada

Attention: Bhabesh Roy

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Sep-12

JOB/PROJECT NO.:

DATE REPORTED: 26-Sep-12

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Utilidor N 74' 41 77 W94' 50 45	Wetland N 74' 44 32 W95' 00 69	Leachate N 74' 45 W994' 55	Resolute Pipe N74' 41 57 W94' 50 47
			Sample I.D.	B12-23825-1	B12-23825-2	B12-23825-3	B12-23825-4
			Date Collected	13-Sep-12	13-Sep-12	13-Sep-12	13-Sep-12
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Alkalinity (as CaCO ₃)	mg/L	5	SM 2320B	19-Sep-12/O	215	194	
Conductivity	µmho/cm	1	SM 2510B	19-Sep-12/O	717	1450	
pH	pH Units		SM 4500H	19-Sep-12/O	7.86	8.03	7.62
BOD	mg/L	3	SM 5210B	21-Sep-12/O	< 3	216	
Total Suspended Solids	mg/L	3	SM 2540D	19-Sep-12/O	10	< 3	14
Nitrite (N)	mg/L	0.1	SM4110C	19-Sep-12/O	< 0.1	0.9	
Nitrate (N)	mg/L	0.1	SM4110C	19-Sep-12/O	1.3	< 0.1	
Sulphate	mg/L	1	SM4110C	19-Sep-12/O	23		
Sulphate	mg/L	1	SM4110C	20-Sep-12/O		439	
Arsenic	mg/L	0.0005	EPA 200.8	19-Sep-12/O	0.0010	0.0028	
Calcium	mg/L	0.02	SM 3120	21-Sep-12/O	79.7		
Calcium	mg/L	0.02	SM 3120	24-Sep-12/O		213	
Cadmium	mg/L	0.005	SM 3120	21-Sep-12/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	21-Sep-12/O	0.004	0.021	
Chromium	mg/L	0.002	SM 3120	21-Sep-12/O	0.129	0.003	
Iron (Total)	mg/L	0.005	SM 3120	21-Sep-12/O	0.464	0.236	
Lead	mg/L	0.02	SM 3120	21-Sep-12/O	< 0.02	< 0.02	
Magnesium	mg/L	0.01	SM 3120	21-Sep-12/O	22.9	43.5	
Mercury	mg/L	0.00002	SM 3112 B	21-Sep-12/O	< 0.00002	< 0.00002	
Nickel	mg/L	0.01	SM 3120	21-Sep-12/O	0.05	< 0.01	
Phosphorus	mg/L	0.1	SM 3120	21-Sep-12/O	< 0.1	< 0.1	
Potassium	mg/L	0.1	SM 3120	21-Sep-12/O	2.0	14.8	
Sodium	mg/L	0.2	SM 3120	21-Sep-12/O	55.7	82.1	
Zinc	mg/L	0.005	SM 3120	21-Sep-12/O	< 0.005	0.284	
Oil and Grease-Anim/Veg.	mg/L	1.0	SM 5520	21-Sep-12/K		< 1.0	3.4
Oil and Grease-Mineral	mg/L	1.0	SM 5520	21-Sep-12/K		< 1.0	4.5



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

C.O.C.: G27861

REPORT No. B12-23825

Report To:

Resolute Bay
Government Office,
NU X0A 0V0 Canada

Attention: Bhabesh Roy

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Sep-12

DATE REPORTED: 26-Sep-12

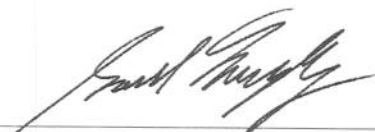
SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:

P.O. NUMBER:

WATERWORKS NO.

			Client I.D.	Utilidor N 74' 41 77 W94' 50 45	Wetland N 74' 44 32 W95' 00 69	Leachate N 74' 45 W994' 55	Resolute Pipe N74' 41 57 W94' 50 47
			Sample I.D.	B12-23825-1	B12-23825-2	B12-23825-3	B12-23825-4
			Date Collected	13-Sep-12	13-Sep-12	13-Sep-12	13-Sep-12
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Oil & Grease-Total	mg/L	1.0	SM 5520	21-Sep-12/K		< 1.0	7.9
Fecal Coliform	cfu/100mL	1	MOE E3371	19-Sep-12/O	9600	< 20	



Gord Murphy
Lab Supervisor

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2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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DATE RECEIVED: 18-Sep-12

JOB/PROJECT NO.:

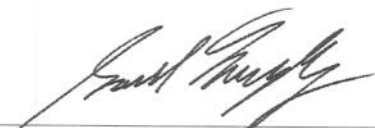
DATE REPORTED: 26-Sep-12

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Loaggon N' 74' 44 W95' 0			
			Sample I.D.	B12-23825-5			
			Date Collected	13-Sep-12			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Alkalinity (as CaCO ₃)	mg/L	5	SM 2320B	19-Sep-12/O	484		
Conductivity	µmho/cm	1	SM 2510B	19-Sep-12/O	1560		
pH	pH Units		SM 4500H	19-Sep-12/O	7.56		
BOD	mg/L	3	SM 5210B	21-Sep-12/O	620		
Total Suspended Solids	mg/L	3	SM 2540D	19-Sep-12/O	128		
Nitrite (N)	mg/L	0.1	SM4110C	19-Sep-12/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	19-Sep-12/O	0.1		
Sulphate	mg/L	1	SM4110C	19-Sep-12/O	38		
Sulphate	mg/L	1	SM4110C	20-Sep-12/O			
Arsenic	mg/L	0.0005	EPA 200.8	19-Sep-12/O	0.0015		
Calcium	mg/L	0.02	SM 3120	21-Sep-12/O	51.0		
Calcium	mg/L	0.02	SM 3120	24-Sep-12/O			
Cadmium	mg/L	0.005	SM 3120	21-Sep-12/O	< 0.005		
Copper	mg/L	0.002	SM 3120	21-Sep-12/O	0.204		
Chromium	mg/L	0.002	SM 3120	21-Sep-12/O	0.116		
Iron (Total)	mg/L	0.005	SM 3120	21-Sep-12/O	1.13		
Lead	mg/L	0.02	SM 3120	21-Sep-12/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	21-Sep-12/O	12.5		
Mercury	mg/L	0.00002	SM 3112 B	21-Sep-12/O	0.00003		
Nickel	mg/L	0.01	SM 3120	21-Sep-12/O	0.10		
Phosphorus	mg/L	0.1	SM 3120	21-Sep-12/O	12.7		
Potassium	mg/L	0.1	SM 3120	21-Sep-12/O	29.4		
Sodium	mg/L	0.2	SM 3120	21-Sep-12/O	84.9		
Zinc	mg/L	0.005	SM 3120	21-Sep-12/O	0.265		
Oil and Grease-Anim/Veg.	mg/L	1.0	SM 5520	21-Sep-12/K			
Oil and Grease-Mineral	mg/L	1.0	SM 5520	21-Sep-12/K			
Oil & Grease-Total	mg/L	1.0	SM 5520	21-Sep-12/K			



Gord Murphy

Lab Supervisor

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C.O.C.: G27861

REPORT No. B12-23825

Report To:

Resolute Bay

Government Office,
NU X0A 0V0 Canada

Attention: Bhabesh Roy

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Sep-12

DATE REPORTED: 26-Sep-12

SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:

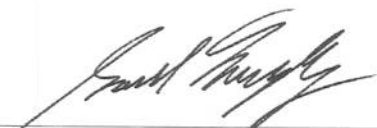
P.O. NUMBER:

WATERWORKS NO.

			Client I.D.	Loaggon N' 74' 44 W95' 0			
			Sample I.D.	B12-23825-5			
			Date Collected	13-Sep-12			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	19-Sep-12/O	< 20		

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill



Gord Murphy
Lab Supervisor

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C.O.C.: G27799

REPORT No. B12-26731

Report To:

Hamlet of Resolute Bay
Government Office,
NU X0A 0V0 Canada

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

Attention: Martha Kaluk

DATE RECEIVED: 18-Oct-12

JOB/PROJECT NO.:

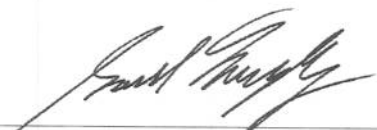
DATE REPORTED: 26-Oct-12

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Airport Lagoon	Utilidor Pipe		
			Sample I.D.	B12-26731-1	B12-26731-2		
			Date Collected	15-Oct-12	15-Oct-12		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	19-Oct-12/O	430	8	
Total Suspended Solids	mg/L	3	SM 2540D	19-Oct-12/O	272	6	
Hardness (as CaCO ₃)	mg/L	1	SM 3120	22-Oct-12/O	156	197	
Alkalinity (as CaCO ₃)	mg/L	5	SM 2320B	22-Oct-12/O	438	99	
Conductivity	µmho/cm	1	SM 2510B	19-Oct-12/O	1340	579	
pH	pH Units		SM 4500H	22-Oct-12/O	7.36	7.60	
Nitrite (N)	mg/L	0.1	SM4110C	18-Oct-12/O	< 0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	18-Oct-12/O	< 0.1	0.1	
Chloride	mg/L	0.5	SM4110C	18-Oct-12/O	73.2	65.1	
Sulphate	mg/L	1	SM4110C	18-Oct-12/O	57	86	
Total Organic Carbon	mg/L	0.2	EPA 415.1	25-Oct-12/O	81.0	6.9	
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	19-Oct-12/O	86.1	0.18	
Phenolics	mg/L	0.001	MOEE 3179	23-Oct-12/O	0.215	< 0.001	
Aluminum (total)	mg/L	0.01	SM 3120	22-Oct-12/O	0.28	0.06	
Arsenic	mg/L	0.0005	EPA 200.8	23-Oct-12/O	0.0006	0.0008	
Calcium	mg/L	0.02	SM 3120	22-Oct-12/O	44.5	56.8	
Cadmium	mg/L	0.005	SM 3120	22-Oct-12/O	< 0.005	< 0.005	
Cobalt	mg/L	0.005	SM 3120	22-Oct-12/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	22-Oct-12/O	0.192	0.021	
Chromium	mg/L	0.002	SM 3120	22-Oct-12/O	< 0.002	< 0.002	
Iron (Total)	mg/L	0.005	SM 3120	22-Oct-12/O	0.810	< 0.005	
Lead	mg/L	0.02	SM 3120	22-Oct-12/O	< 0.02	< 0.02	
Magnesium	mg/L	0.01	SM 3120	22-Oct-12/O	10.8	13.4	
Manganese (Total)	mg/L	0.001	SM 3120	22-Oct-12/O	0.047	< 0.001	
Mercury	mg/L	0.00002	SM 3112 B	22-Oct-12/O	0.00003	< 0.00002	
Nickel	mg/L	0.01	SM 3120	22-Oct-12/O	< 0.01	< 0.01	
Potassium	mg/L	0.1	SM 3120	22-Oct-12/O	28.3	3.9	
Sodium	mg/L	0.2	SM 3120	22-Oct-12/O	80.0	43.9	



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

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C.O.C.: G27799

REPORT No. B12-26731

Report To:

Hamlet of Resolute Bay
Government Office,
NU X0A 0V0 Canada

Attention: Martha Kaluk

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 18-Oct-12

DATE REPORTED: 26-Oct-12

SAMPLE MATRIX: Waste Water

JOB/PROJECT NO.:

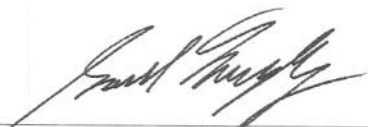
P.O. NUMBER:

WATERWORKS NO.

			Client I.D.		Airport Lagoon	Utilidor Pipe		
			Sample I.D.		B12-26731-1	B12-26731-2		
			Date Collected		15-Oct-12	15-Oct-12		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Zinc	mg/L	0.005	SM 3120	22-Oct-12/O	0.165	0.019		
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Oct-12/K	106	1.1		
Fecal Coliform	cfu/100mL	1	MOE E3371	19-Oct-12/O	26000000	> 20000		

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Gord Murphy
Lab Supervisor

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RESOLUTE - WATER SYSTEM INSPECTION REPORT

Week of : JAN 28 / 2013 / 10 3 Feb 13

Operator : ATCO Structures & Logistics Services Ltd



PUMP Stn. Inspection

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 st Wet Well Temperature (°C)	1.5 °C	1.6 °C	1.5 °C	5.0 °C	3.0 °C	2.5 °C	4.0 °C
Wet Well - Water Level (m)	2.5 m	2.5 m	2.5 m	2.5 m	2.5 m	2.5 m	2.5
Previous Totalizer Reading (a)	4106725	6584104	921778	1267082	1483088	1755361	2031097
Current Totalizer Reading (b)	6584104	9271778	1267082	1483088	1755361	2031097	2356612
Pumped Volume (c) = (b) - (a)	251684	269364	339304	216006	272273	275736	
Current Flow Rate of WTP Res. Fill Line	190.50	191.23	203.50	19.92	189.95	188.95	188.95
WTP Res. Supply - Water Temp. (°C)	1.5 °C	1.5 °C	1.5 °C	5.0 °C	3.0 °C	2.5 °C	4.0
Res. Supply - Heat Trace On (Y or N)	ON	ON	ON	ON	ON	ON	ON
WTP Reservoir Level (Ft.)	12'-6"	12'-3"	11'-3"	12'-0"	12'-3"	12'-6"	12'-6"
Pump Str. Interior Temperature (°C)	15 +	15 +	15 +	15 +	15 +	15 +	150
Pump Str. Boiler Supply Temp. (°C)	68 °C	74 °C	70 °C	65 °C	65 °C	65 °C	63
Pump Str. Boiler Return Temp. (°C)	60 °C	61 °C	64 °C	60 °C	55 °C	54 °C	60
P. Str. Heat Exchanger (#1) Temp. (°C)	38 °C	40 °C	35 °C	41 °C	41 °C	38 °C	34
P. Str. Heat Exchanger (#2) Temp. (°C)	34 °C	34 °C	40 °C	40 °C	41 °C	36 °C	34

located treatment plant circ. from Hamlet frozen from 3 to 4 weeks
 to ~~start~~ Saturday Feb 2nd 2013

12/12

W.T.P. Bldg. Inspection		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 [#]	W.T.P. Interior Temperature (°C)	20 °C	17 °C	17 °C	-35 °C -40 °C 10 °C under	-35 °C clear 17 °C inside	-35 °C under +14 °C inside	14 °C
2 [#]	W.T.P. Boiler Supply Temp. (°C)	74 °C	68 °C	68 °C	72 °C	72 °C	75 °C	66 °C
3 [#]	W.T.P. Boiler Return Temp. (°C)	68 °C	58 °C	64 °C	66 °C	68 °C	64 °C	60 °C
4 [#]	W.T.P. Heat Exchanger (#1) Temp. (°C)	44 °C	35 °C	38 °C	41 °C	44 °C	38 °C	35 °C
5 [#]	W.T.P. Heat Exchanger (#2) Temp. (°C)	no therm	no therm	no therm	no therm	no therm	no therm	—
6 [#]	W.T.P. Reservoir - Water Temp. (°C)	28 °F	28 °F	28 °F	26 °F	28 °F	28 °F	29 °C
7 [#]	W.T.P. Reservoir - Level (Feet)	12'-6"	12'-6"	11'-6"	12'-9"	12'-6"	12'-6"	11'
	Utilidor Supply to Hamlet - Temp. (°C)	7 °C	6.5 °C	6.5 °C	6.5 °C	7.5 °C	7.5 °C	8.0 °C
	Utilidor Return from Hamlet - Temp. (°C)	62 °F	58 °F	60 °F	54 °C	60 °C	58 °C	56 °F
	Meter # 1 Reading - ()	X	X	X	X	X	X	—
	Meter # 2 Reading - ()	008503	008526	008588	008588	008624	008645	008673
	Meter # 3 Reading - ()	X	X	X	X	X	X	—
	Meter # 4 Reading - ()	001666	001666	001666	001666	001666	001666	001666
	Chlorine Tank Level - (cm)	100 +	100 +	100 +	100 +	100 +	100 +	100 +
	Chlorine Pump Stroke Setting	16	19	36	25	25	27	27
	TIME: (24 : 00 Hrs)	8:10 am	8:00 am	2:20 pm	8:20 am	8:20 am	9:00 am	2 PM
	DATE: (DD - MM - YY)	28/01/13	29/01/13	30/01/13	31/01/13	1/02/13	2/02/13	03/02/13
	DAILY INSPECTION BY: (Initials)	W.A.C	W.A.C	W.A.C	W.A.C	W.A.C	W.A.C	R/S/D
	Wtr Sample # 1 (Free Chlorine)	0.21	.24	.35	.30	0.35	0.30	0.21