



Inspection Report

License #: 3BM-QIK

Inspector: A. Keim

CIDMS # 368146

Client	Municipality of Qikiqtarjuaq		
Mailing Address	Box 4		
Inspection site location	Qikiqtarjuaq, Nunavut		
Contact name	Sam Nuqingaq	Title	ASAO
Last inspection date	July 12, 2007,	August 17, 2008	
Inspection start date	July 27, 2009		
Region	Qikiqtani		



INAC, Nunavut District
P.O. Box 100
Building 918
Iqaluit, NU, X0A 0H0

Submitted Via E-Mail
Our File: 3BM-QIK0712
Your File: _____
CIDM # 368146

November 25, 2009

Sam Nuqingaq
Acting / Senior Administrative Officer
Box 4
Qikiqtarjuaq, Nunavut
XOA OBO
munqik@qiniq.com

RE: July 27, 2009 Municipal Water Licence 3BM-QIK0712

The following inspection report was generated on an inspection conducted to determine compliance with the terms and conditions of the water license issued to the Municipality of Qikiqtarjuaq by the Nunavut Water Board (NWB).

The report references the applicable Parts of the current Water License (3BM-QIK0712) and the findings observed under each of those Parts. During the writing of this report a review was undertaken of the documents located on the Nunavut Water Board's FTP site.

The Inspector would like to thank Mr. Sam Nuqingaq, Acting Senior Administrative Officer for the Municipality of Qikiqtarjuaq for taking the time to meet during the inspection period and for acting as guide while conducting the inspection of the potable water source, waste treatment system and waste management areas.

Previous findings:

Issues identified by the Inspector during the 2008 Inspection were as follows;

- Licensee is to address concerns identified by the Inspector concerning installation of a new Chlorination system.
- Licensee was to address concerns identified by the Inspector concerning treatment of water drawn directly from river. (during the construction phase of the new reservoir)
- Collect and submit for analysis the samples required on the Monitoring Program.
- Submit required QA/QC program.
- Licensee is to construct required fencing around Waste Management Area.
- Submit all required Annual reports.
- Submit as required a Revised Water Storage Operation and Maintenance Plan – Feb 2006.
- Submit as required a Sewage Treatment Facility Operation and Maintenance Plan – Feb 2006.
- Submit as required a Solid Waste Facility Operation and Maintenance Plan – Feb 2006.
- Submit as required an Inspection report from a Geotechnical Engineer on all engineered facilities related to the management of water and waste within the Municipality.
- Submit as required a revised Environmental Emergency Contingency Plan for Water, Sewage and Solid Waste Operations in the Hamlet of Qikiqtarjuaq, Nunavut.

During the period of the 2009 Inspection the following issues were identified;

- The new community reservoir had recently been completed and was in the process of being filled via pipeline from the Tulugak River. The Inspector could not locate the commissioning documents for the reservoir at the time of the Inspection. At the time of this report the Inspector could not locate the required as-built documents or approval / commissioning documents on the Nunavut Water Board FTP site.



- The new addition of a second cell to the existing community sewage lagoon was nearing completion. At the time of the Inspection effluent was being transferred from the existing cell into the new cell of the Lagoon to facilitate the installation of an overflow pile between the two cells. When the Inspector questioned the ASAO regarding the approval and commissioning of the new cell the ASAO had no information at that time. A review of the NWB FTP site at the time of writing this report could not locate as-built drawings nor approval / commissioning documents related to the lagoon.
- At the time of Inspection it was noted that there was no fence around the lagoon.
- Discrete piles of hydrocarbon contaminated soils (6) from large spills of fuel originating within the community are stored without secondary containment in front of the old quarry site south of the waste management area.
- At the site of the hazardous wastes management area spills of waste oil and other unidentified substances had spilled both within and outside containment.
- The Waste Management Area is not properly segregated and hazardous materials are mixed throughout the site.

Samples of water collected from the Potable Source by the Inspector returned the following results;

Parameter:	Result	CDW ¹ (CCME)
Lead	17.4 µg/L	10 µg/L

Non-Compliance: Issues identified during the July 27th, 2009 inspection and/or review of relevant material.

Issues with a known or anticipated human health impacts;

- The Licensee failed to collect and submit for analysis the samples required on the Monitoring Program.

Issues where there is a known or anticipated environmental impairment;

- Collect and submit for analysis the samples required on the Monitoring Program.
- Construct required fencing around new extended Waste Management Area.
- Failed to contain and prevent releases of hazardous materials in the Waste Management Area.

Issues where there is a known or suspected violation of a requirement of the Water License;

- Failure to submit as required a complete Annual report (Part B(1)).
- Failure to submit a Sewage Sludge Management Plan as required (Part D(6)).
- Failure to provide a Wetland Treatment Area assessment which includes;
 - Final, as built plans/drawings.
 - Identify the Final Discharge Point.
 - An ecological/vegetative assessment.
 - Verification of the total area utilized including a description of the gradient and holding capacity.
 - An assessment of the potential effects of the release of any leachate from the Solid Waste Disposal Facilities to the Wetland Treatment Area, including migration measures.
- Failure to submit results of Acute Toxicity testing (Part D (10)).
- Failure to submit required final construction reports to the Nunavut water Board as required Part E (9)).
- Failure to develop and submit an Operation and Maintenance Manuals (Part F (1));
 - Revised Water Storage Operation and Maintenance Plan – Feb 2006.
 - Sewage Treatment Facility Operation and Maintenance Plan – Feb 2006.
 - Solid Waste Facility Operation and Maintenance Plan – Feb 2006.
- Failure to submit the required geotechnical Inspection report to be completed annually in July (Part F(4)).
- Failure to submit a revised Environmental Emergency Contingency Plan for Water, Sewage and Solid Waste Operations in the Hamlet of Qikiqtarjuaq, Nunavut (Part F (6)).
- Failure to comply with the Monitoring Program (Part H (2, 4,5,6,7, 8, 9, 10, 12)).

¹ Community Drinking Water Guidelines– Canadian Council of Ministers of the Environment – Canadian Environmental Quality Guidelines



The Municipality of Qikiqtarjuaq continues to operate in Non-conformity with the terms and conditions of the Water License issued in 2007 and expiring in 2012. The Licensee is strongly encouraged to contact the Nunavut Water Board and the Inspector to determine the requirements for achieving and maintaining compliance with the issued License and the Act.

A. Keim

Inspector's Name

Inspector's Signature

Cc:

Peter Kusugak - Manager Field Operations section- Indian and Northern Affairs Canada
Phyllis Beaulieu – Manager licensing – Nunavut Water Board

















DEPARTMENT OF PUBLIC WORKS AND ENGINEERING
DAILY WATER MONITORING CHART
STATION: Qikiqtarjuaq

DATE OF SAMPLE	PLANT SAMPLE NUMBER	TOTAL CHLORINE RESIDUAL	FREE CHLORINE RESIDUAL	DAILY WATER CONSUMPTION (L/SEC)
2009-07-27	1000	0.45	0.32	
2009-07-27	1001	0.47	0.33	
2009-07-27	1002	0.48	0.34	
2009-07-27	1003	0.49	0.35	
2009-07-27	1004	0.50	0.36	
2009-07-27	1005	0.51	0.37	
2009-07-27	1006	0.52	0.38	
2009-07-27	1007	0.53	0.39	
2009-07-27	1008	0.54	0.40	
2009-07-27	1009	0.55	0.41	
2009-07-27	1010	0.56	0.42	
2009-07-27	1011	0.57	0.43	
2009-07-27	1012	0.58	0.44	
2009-07-27	1013	0.59	0.45	
2009-07-27	1014	0.60	0.46	
2009-07-27	1015	0.61	0.47	
2009-07-27	1016	0.62	0.48	
2009-07-27	1017	0.63	0.49	
2009-07-27	1018	0.64	0.50	
2009-07-27	1019	0.65	0.51	
2009-07-27	1020	0.66	0.52	
2009-07-27	1021	0.67	0.53	
2009-07-27	1022	0.68	0.54	
2009-07-27	1023	0.69	0.55	
2009-07-27	1024	0.70	0.56	
2009-07-27	1025	0.71	0.57	
2009-07-27	1026	0.72	0.58	
2009-07-27	1027	0.73	0.59	
2009-07-27	1028	0.74	0.60	
2009-07-27	1029	0.75	0.61	
2009-07-27	1030	0.76	0.62	
2009-07-27	1031	0.77	0.63	
2009-07-27	1032	0.78	0.64	
2009-07-27	1033	0.79	0.65	
2009-07-27	1034	0.80	0.66	
2009-07-27	1035	0.81	0.67	
2009-07-27	1036	0.82	0.68	
2009-07-27	1037	0.83	0.69	
2009-07-27	1038	0.84	0.70	
2009-07-27	1039	0.85	0.71	
2009-07-27	1040	0.86	0.72	
2009-07-27	1041	0.87	0.73	
2009-07-27	1042	0.88	0.74	
2009-07-27	1043	0.89	0.75	
2009-07-27	1044	0.90	0.76	
2009-07-27	1045	0.91	0.77	
2009-07-27	1046	0.92	0.78	
2009-07-27	1047	0.93	0.79	
2009-07-27	1048	0.94	0.80	
2009-07-27	1049	0.95	0.81	
2009-07-27	1050	0.96	0.82	
2009-07-27	1051	0.97	0.83	
2009-07-27	1052	0.98	0.84	
2009-07-27	1053	0.99	0.85	
2009-07-27	1054	1.00	0.86	
2009-07-27	1055	1.01	0.87	
2009-07-27	1056	1.02	0.88	
2009-07-27	1057	1.03	0.89	
2009-07-27	1058	1.04	0.90	
2009-07-27	1059	1.05	0.91	
2009-07-27	1060	1.06	0.92	
2009-07-27	1061	1.07	0.93	
2009-07-27	1062	1.08	0.94	
2009-07-27	1063	1.09	0.95	
2009-07-27	1064	1.10	0.96	
2009-07-27	1065	1.11	0.97	
2009-07-27	1066	1.12	0.98	
2009-07-27	1067	1.13	0.99	
2009-07-27	1068	1.14	1.00	
2009-07-27	1069	1.15	1.01	
2009-07-27	1070	1.16	1.02	
2009-07-27	1071	1.17	1.03	
2009-07-27	1072	1.18	1.04	
2009-07-27	1073	1.19	1.05	
2009-07-27	1074	1.20	1.06	
2009-07-27	1075	1.21	1.07	
2009-07-27	1076	1.22	1.08	
2009-07-27	1077	1.23	1.09	
2009-07-27	1078	1.24	1.10	
2009-07-27	1079	1.25	1.11	
2009-07-27	1080	1.26	1.12	
2009-07-27	1081	1.27	1.13	
2009-07-27	1082	1.28	1.14	
2009-07-27	1083	1.29	1.15	
2009-07-27	1084	1.30	1.16	
2009-07-27	1085	1.31	1.17	
2009-07-27	1086	1.32	1.18	
2009-07-27	1087	1.33	1.19	
2009-07-27	1088	1.34	1.20	
2009-07-27	1089	1.35	1.21	
2009-07-27	1090	1.36	1.22	
2009-07-27	1091	1.37	1.23	
2009-07-27	1092	1.38	1.24	
2009-07-27	1093	1.39	1.25	
2009-07-27	1094	1.40	1.26	
2009-07-27	1095	1.41	1.27	
2009-07-27	1096	1.42	1.28	
2009-07-27	1097	1.43	1.29	
2009-07-27	1098	1.44	1.30	
2009-07-27	1099	1.45	1.31	
2009-07-27	1100	1.46	1.32	
2009-07-27	1101	1.47	1.33	
2009-07-27	1102	1.48	1.34	
2009-07-27	1103	1.49	1.35	
2009-07-27	1104	1.50	1.36	
2009-07-27	1105	1.51	1.37	
2009-07-27	1106	1.52	1.38	
2009-07-27	1107	1.53	1.39	
2009-07-27	1108	1.54	1.40	
2009-07-27	1109	1.55	1.41	
2009-07-27	1110	1.56	1.42	
2009-07-27	1111	1.57	1.43	
2009-07-27	1112	1.58	1.44	
2009-07-27	1113	1.59	1.45	
2009-07-27	1114	1.60	1.46	
2009-07-27	1115	1.61	1.47	
2009-07-27	1116	1.62	1.48	
2009-07-27	1117	1.63	1.49	
2009-07-27	1118	1.64	1.50	
2009-07-27	1119	1.65	1.51	
2009-07-27	1120	1.66	1.52	
2009-07-27	1121	1.67	1.53	
2009-07-27	1122	1.68	1.54	
2009-07-27	1123	1.69	1.55	
2009-07-27	1124	1.70	1.56	
2009-07-27	1125	1.71	1.57	
2009-07-27	1126	1.72	1.58	
2009-07-27	1127	1.73	1.59	
2009-07-27	1128	1.74	1.60	
2009-07-27	1129	1.75	1.61	
2009-07-27	1130	1.76	1.62	
2009-07-27	1131	1.77	1.63	
2009-07-27	1132	1.78	1.64	
2009-07-27	1133	1.79	1.65	
2009-07-27	1134	1.80	1.66	
2009-07-27	1135	1.81	1.67	
2009-07-27	1136	1.82	1.68	
2009-07-27	1137	1.83	1.69	
2009-07-27	1138	1.84	1.70	
2009-07-27	1139	1.85	1.71	
2009-07-27	1140	1.86	1.72	
2009-07-27	1141	1.87	1.73	
2009-07-27	1142	1.88	1.74	
2009-07-27	1143	1.89	1.75	
2009-07-27	1144	1.90	1.76	
2009-07-27	1145	1.91	1.77	
2009-07-27	1146	1.92	1.78	
2009-07-27	1147	1.93	1.79	
2009-07-27	1148	1.94	1.80	
2009-07-27	1149	1.95	1.81	
2009-07-27	1150	1.96	1.82	
2009-07-27	1151	1.97	1.83	
2009-07-27	1152	1.98	1.84	
2009-07-27	1153	1.99	1.85	
2009-07-27	1154	2.00	1.86	
2009-07-27	1155	2.01	1.87	
2009-07-27	1156	2.02	1.88	
2009-07-27	1157	2.03	1.89	
2009-07-27	1158	2.04	1.90	
2009-07-27	1159	2.05	1.91	
2009-07-27	1160	2.06	1.92	
2009-07-27	1161	2.07	1.93	
2009-07-27	1162	2.08	1.94	
2009-07-27	1163	2.09	1.95	
2009-07-27	1164	2.10	1.96	
2009-07-27	1165	2.11	1.97	
2009-07-27	1166	2.12	1.98	
2009-07-27	1167	2.13	1.99	
2009-07-27	1168	2.14	2.00	
2009-07-27	1169	2.15	2.01	
2009-07-27	1170	2.16	2.02	
2009-07-27	1171	2.17	2.03	
2009-07-27	1172	2.18	2.04	
2009-07-27	1173	2.19	2.05	
2009-07-27	1174	2.20	2.06	
2009-07-27	1175	2.21	2.07	
2009-07-27	1176	2.22	2.08	
2009-07-27	1177	2.23	2.09	
2009-07-27	1178	2.24	2.10	
2009-07-27	1179	2.25	2.11	
2009-07-27	1180	2.26	2.12	
2009-07-27	1181	2.27	2.13	
2009-07-27	1182	2.28	2.14	
2009-07-27	1183	2.29	2.15	
2009-07-27	1184	2.30	2.16	
2009-07-27	1185	2.31	2.17	
2009-07-27	1186	2.32	2.18	
2009-07-27	1187	2.33	2.19	
2009-07-27	1188	2.34	2.20	
2009-07-27	1189	2.35	2.21	
2009-07-27	1190	2.36	2.22	
2009-07-27	1191	2.37	2.23	
2009-07-27	1192	2.38	2.24	
2009-07-27	1193	2.39	2.25	
2009-07-27	1194	2.40	2.26	
2009-07-27	1195	2.41	2.27	
2009-07-27	1196	2.42	2.28	
2009-07-27	1197	2.43	2.29	
2009-07-27	1198	2.44	2.30	
2009-07-27	1199	2.45	2.31	
2009-07-27	1200	2.46	2.32	







