

Draft Implementation Plan – October 25, 2006.

Item #	Issue/Concern	Action item	Responsibility	Timeline	Document Submitted
i.	Confirm municipal facilities to be regulated under license. For those facilities typically licensed , how will they be regulated	1. Identify location of truck-fill station on drawing C1 and describe facility and operations, including piped system. 2. Location of wetland system and sample points noted on Map C1. Improved description to be available in interim NJWL Study Report. 3. Solid Waste- Develop sketch map of facility illustrating locations of different waste types in facility and drainage.	1. Map to be amended by CGS. Dillon to provide write up from their study. 2. Written description by JW from interim report. 3. Hamlet with direction/assistance from CGS and or NJWL.	January 31, 2007	Supplementary Information
ii.	Discrete plans and/or engineered drawings for all facilities listed in i) above to complement drawing C-1.	Provide sketch drawings or, where available plans for: 1. Schematic drawing or plan of truck fill station and piped water loop. 2. Wastewater complete, except for drawing of holding cell. 3. Solid Waste.	1. Available from Dillon study? 2. CGS or contract out. 3. Drawing developed under item i)	January 31, 2007	Supplementary Information
iii.	Delineate and discuss the location of the barge fuel delivery pipeline relative to the freshwater intake.	1. Location of pipeline appears to be on drawing C1, but is not labeled as such. 2. Discussion of potential impact to water source should be addressed in NJWL study	1. CGS amend Drawing C1 to identify pipeline. 2. From NJWL interim report.	January 31, 2007	Supplementary Information Interim NJWL Study
iv.	Clearly and sufficiently delineate, highlight and detail drainage patterns associated with the solid waste disposal area, the location of the hazardous waste disposal areas, the location of environmental monitoring sites and drainage basins. Also outline areas the community uses for recreation and traditional uses, and sufficiently detail and delineate abandoned and/or restored waste facilities (solid waste, sewage)	1. Discussion of drainage patterns for operational sites to be provided in interim NJWL report. 2. Abandoned facilities to be addressed in Abandonment and Restoration report.	1. From NJWL interim report. 2. CGS	1. January 31/07 2. August 31, 07	1. Interim NJWL Study 2. A&R Report

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v.	Provide further detail of the specifications of the intake screen for the freshwater intake facility.	1. Intake screen to be documented in description provided to item i) above.	1. Dillon report	January 31, 2007	Supplementary Information
vi.	Provide consistency in the NWB Application documents regarding the existence of and components in the piped water distribution and storage system.	1. The piped water system and distribution system should be described once only in the application and would be provided under item i)1	1.Dillon report	January 31, 2007	Supplementary Information
vii	Describe the method and supporting rationale for estimating average water consumption rates? What is the estimated number of people in Baker Lake at present and estimated population at the expiry of the requested license term?	1. Prepare revised average water consumption rates. 2. Estimated population and growth rates will be calculated during NJWL study, and possibly Dillon study.	1. If not available in Dillon report, calculate based on accepted averages. 2. Use info from Dillon or NJWL study.	January 31, 2007	Supplementary Information Interim NJWL Study
viii	When will signs be posted identifying the drinking water source location?	1. Posts need to be painted and shipped to Baker Lake.	1. Hamlet and CGS	August 31, 2007	NA
ix) a)	Provide details on how the holding cell provides a containment function. Submit a report by an Engineer practiced in Geotechnique and sewage lagoon design registered in Nunavut. This report shall include design drawings that are stamped and sealed for the sewage treatment facility.	1. The interim NJWL study will describe the current holding cell. 2. The final NJWL study may recommend the improvement, expansion or replacement of the holding cell. If so engineered plans would be prepared.	1. Interim NJWL study to provide info on current holding cell. 2. Final NJWL Study report.	1. January 31/07 2. August 31/07	1. Interim NJWL Study 2. Final NJWL Study
ix) b)	Provide details into what system and structures are in place to convey and channel sewage flow into the holding cell from sewage trucks. Full drawings, appropriately qualified of systems and structures in place are to be provided.	1. Description of system and structures will be provided in NJWL report. 2. The final NJWL study may recommend the upgrading or replacement of such systems. If so engineered plans would be prepared.	1. Interim NJWL study to provide info on current systems. 2. Final NJWL Study report.	1. January 31/07 2. August 31/07	1. Interim NJWL Study 2. Final NJWL Study
ix) c)	Provide details into how the sewage lagoon behaves. Engineering judgment should be used to determine design functions, design retention time, sludge generation and management. This information should be completed by an Engineer registered to practice in Nunavut.	1. This item will be addressed in a preliminary manner in the interim NJWL study. 2. Final comment will be provided in final NJWL Study report.	1. Interim NJWL study. 2. Final NJWL study.	1. January 31/07 2. August 31/07	1. Interim NJWL Study 2. Final NJWL Study
ix) d)	Provide details on how effluent waters exit the sewage lagoon holding cell. This should consider anticipated effluent quality and the structural specifics of the outlet as qualified by an Engineer.	1. A description of all components in the system and their operation will be provided in the NJWL study.	1. Interim NJWL study.	January 31, 2007	Interim NJWL Study

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ix) e)	Provide detail as to how the sewage lagoon holding cell and associated structures will impact or potentially impact waters through the deposition of waste. Photographic record should be provided to complement the submitted discussion.	1. This will be addressed in the NJWL study.	1. Interim NJWL study. 2. Final NJWL study	1. January 31/07 2. August 31/07	1. Interim NJWL Study 2. Final NJWL Study
x	Provide a full engineering understanding of the wetland area system. The engineering evaluation is to consider impacts and potential impacts to freshwater through waste and should be appropriately qualified by an Engineer registered in Nunavut. Photographic record should be provided to compliment the submitted discussion.	1. This will be addressed in the NJWL study.	1. Interim NJWL study. 2. Final NJWL study	1. January 31/07 2. August 31/07	1. Interim NJWL Study 2. Final NJWL Study
xi.	Where and how are commercial and industrial wastes disposed of?	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update.	August 31, 2007	Updated O&M Manual
Xii	Provide evidence the sewage treatment system is performing satisfactorily.	1. This will be addressed in the NJWL study.	1. Interim NJWL study. 2. Final NJWL study	1. January 31/07 2. August 31/07	1. Interim NJWL study. 2. Final NJWL study
xiii.	Provide a list outlining all modifications to the sewage treatment facilities from 1999 onward. The proponent is to include discussion, site plans and design drawings of such modifications.	1. Modifications to be documented by CGS with input from Hamlet and CGS staff.	CGS	January 31/07	Supplementary Information
Xiv	Re part IV Modifications. Has consideration been given to Mayor David Aksawnee's January 28, 2005 letter to NWB? How has the community been consulted on this matter.	1. This will be addressed in the NJWL study.	1. Interim NJWL study. 2. Final NJWL study	1. January 31/07 2. August 31/07	1. January 31/07 2. August 31/07
Xv	Provide information on how sewage was treated in the community prior to the current system. Describe the abandoned and restored sewage waste facilities. Provide appropriate delineation and discussion on past waste practices and requests and evaluation of current waste sites including photographic record.	Abandoned facilities to be addressed in Abandonment and Restoration report.	CGS	August 31, 2007	A&R Report

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Xvi	Provide answer to section IV of the application.	NWB question unclear. Need further clarification as to what they are referring to.	1. Request clarification from NWB,	November 2006	Letter and Implementation Plan.
Xvii	V- Waste Reduction. Provide further detail on what materials are burned and how these materials are gathered and managed. How are byproducts from the burnt waste managed and disposed of?	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update.	August 31, 2007	Updated O&M Manual
Xviii	V animal carcasses pit – Provide further information that appropriately delineates the location within the solid waste facility, how drainage is managed (through specifics), and cover specifications and management protocol for the area. The area adjacent to Sewage Lake, where a large amount of animal remains have been removed from the dump and this practice should not be continued.	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update.	August 31, 2007	Updated O&M Manual
Xix	V Waste Oil pit – The proponent is to provide sufficient detail in what protocols and management strategy is in place to manage waste oil and waste oil drums within the Hamlet.	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update.	August 31, 2007	Updated O&M Manual
Xx	V- Bulky Scrap Waste Disposal Area – Provide additional information (including a photographic record and site maps) in how bulky scrap metal waste is managed and what management protocols and procedures are in place.	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update	August 31, 2007	Updated O&M Manual
Xxi	V- Commercial, Industrial and Hazardous Waste Disposal Area. Provide details on what system is in place to handle commercial and industrial waste.	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update	August 31, 2007	Updated O&M Manual
xxii	V – Commercial, Industrial and or Hazardous Wastes Disposal. The proponent is to provide detailed references to each guideline the Hamlet follows (with respect to waste management).	1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.	1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update	August 31, 2007	Updated O&M Manual

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Xxiii	<p>The NWB requests the following information for the Solid waste facilities: Details on how the landfill provides a containment function. A report shall be submitted by an Engineer practiced in geotechnique and landfill design registered in Nunavut. The report should include design drawings that are stamped and sealed for all solid waste facilities. Provide details on what system and structures are in place to convey, channel and manage leachate flow within solid waste facilities. Provide details as to what structures and management techniques are in place to limit freshwater entering the landfill facilities. Provide full details into how the solid waste facilities behave. Engineering judgment should be used to determine design functions, anticipated leachate treatment and management, cover specifications and appropriate delineation of the entire facility. Provide full details on how effluent waters (treated leachate) exit landfill facilities. Provide adequate detail in how the solid waste facilities and associated structures will impact or potentially impact waters through the deposition of waste. Provide photographic record to compliment.</p>	<p>1. 1. Need to develop thorough documentation of solid waste collection, storage and disposal practices. Address in updated O&M Manual.</p>	<p>1. CGS and Hamlet or contract out Solid Waste Study and O&M Manual update</p>	<p>August 31, 2007</p>	<p>Updated O&M Manual</p>
Xxiv	<p>V- Abandonment and Restoration- Fully delineate and adequately develop an Abandonment and Restoration plan for the facility (the old landfill).</p>	<p>Abandoned facilities to be addressed in Abandonment and Restoration report.</p>	<p>CGS</p>	<p>August 31, 2007</p>	<p>A&R Report</p>
Xxv	<p>V- Identification – complete this section.</p>	<p>Identify signs not in place but will be installed.</p>	<p>Hamlet and CGS</p>	<p>August 31, 2007</p>	<p>NA</p>
xxvi.	<p>Prepare a Spill contingency plan in accordance with the NWT Water Board Guidelines for Contingency Planning (1987).</p>	<p>1. A spill contingency plan is appended to the 1999 O&M Manual. Should be updated.</p>	<p>CGS</p>	<p>August 31, 2007</p>	<p>Spill Contingency Plan accompanying updated O&M Manual</p>

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Xxvii	VI Inspection and Monitoring. Review the Hazardous Materials Spills Database and provide a chronological listing of all spills occurring at the facilities since 1999 with a brief discussion of the spill event and response measures taken by the Hamlet.	1. To be completed in conjunction with preparation of updated O&M Manual	CGS	August 31, 2007	Supporting information to updated O&M Manual.
Xxviii	VI Inspection and Monitoring – Provide further detail on the determined frequency of sampling. What is involved in the decision making process in when and how a water sample is taken?	1. According to past license, will be addressed in Supplementary Information 2. Also to be documented in updated O&M Manual.	1. CGS 2. Hamlet or CGS or contractor.	1. January 31, 2007 2. August 31, 2007	1. Supplementary Information 2. Updated O&M Manual
Xxix	VI- Inspection and Monitoring – The NWB requests sufficient detail in the location of where the samples are taken from. This should include appropriate delineation through a site map and detailed discussion on the reasoning behind the selection of these locations.	1. Will be addressed in Supplementary Information. 2. Also to be documented in updated O&M Manual.	1. CGS 2. Hamlet or CGS or contractor.	1. January 31, 2007 2. August 31, 2007	1. Supplementary Information 2. Updated O&M Manual
Xxx	VI- Inspection and Monitoring – The NWB requests information on the level of training for Jeremy Singahti. The NWB also requests details pertaining to the certification level of National Testing Laboratories Ltd.	1. Provide information on level of training for Jeremy and whomever collects samples. 2. Request lab certification package and CAEAL registrations for analyses undertaken for Hamlet.	1. Hamlet 2. CGS	January 31, 2007	Supplementary Information
Xxxi	VII Public Consultation. No specific requirements.	NWB provides a statement only, no question asked. Further consultation will occur during NJWL study	NA	NA	Documented in NJWL Study reports.
xxxii.	VIII Public Health – The NWB requests detailed particulars in how samples are collected, what is being analyzed in the samples, what sampling protocols are in place and the location where samples are to be collected (through appropriate delineation).	1. Will be addressed in Supplementary Information. 2. Also to be documented in updated O&M Manual.	1. CGS 2. Hamlet or CGS or contractor	1. January 31, 2007 2. August 31, 2007	1. Supplementary Information 2. Updated O&M Manual
Xxxiii	VIII – Public Health – The proponent is to clearly detail all changes to the Monitoring program. Consult bullet xxxii when preparing response.	1. Identify any changes to water monitoring program.	1. CGS and Hamlet	January 31, 2007	Supplementary Information

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Xxxiv	IX – Technical information – The NWB requests an appropriate reference to population estimate of 1500 and growth rate of 2% over the next 5 years.	Estimated population and growth rates will be calculated during NJWL study, and possibly Dillon study.	Interim NJWL Study	January 31, 2007	Supplementary Information
Xxxv	VIII – Technical Information - The NWB advises in comparing the reference documents prepared by George Zhang to the answers provided in the supplementary questionnaire and application (for consistency).	To be done in conjunction with preparation of supplementary information documents	CGS.	January 31, 2007	Supplementary Information
xxxvi.	VII – technical information – Does the proponent believe that community consultation is not needed?	1. To be addressed in supplementary information.	CGS	January 31, 2007	Supplementary Information