

## **NPC Community water source watershed delineation information**

Information from community plans, a series of SWG maps, and where needed, from calls to Hamlet offices to verify locations, as well as future locations. Shapefiles showing points for water source locations and used this as the pourpoint location for manually creating the watershed area. 1:250,000 topo maps, and where needed, 1:50,000 mapping used for the delineation, and also some GN watershed study data provided by Bob Chapple at Community and Government Services, Government of Nunavut. Also, GoogleEarth was used to verify water bodies and streams where needed, since sometimes the mapping does not pick it up. See below for additional information on some communities:

### **Sept 29th, 2009**

- Taloyoak: Spoke with Chris, SAO of Taloyoak on phone, September 29, 2009. He stated that the water lake has not yet been relocated as indicated on community plan. It has been tendered by Government for two years in a row and both years did not move forward.
- Gjoa Haven: Water lake on plan (small and close to town) is not used any more. Now using water lake further to NW as indicated on map. Spoke with Troy in lands office for verification. Map and watershed updated to reflect this new info.
- Arviat: Info from Tommy Owlijoot at Wolf River, 6 km SW of town is used to replenish the water reservoir using flexible hose in summer. This site may be moved in the future to a lake to the NW of town. Watershed area used for Wolf River above intake site, located in GoogleEarth.

### **Sept 30th, 2009**

- Baker Lake: Watershed area is extremely large. Scale of mapping used for Baker Lake is therefore at 1:10,000,000 scale, as opposed to 1:250,000 scale on remaining Hamlets. Also, for simplification, assumptions made to exclude "downstream" areas of the Lake. This should not be treated as an accurate depiction of the Baker Lake watershed area.
- Igloolik: Calls to Hamlet, but no answer. The reservoir is located beside airport and appears to have piping from a small lake on SW part of island...needs to be verified. However, unless water is brought over from mainland, source watershed will not be outside municipal boundary.
- Hall Beach: Watersheds drawn then corrected using GN watershed files provided by Bob Chapel at CGS

### **October 1st, 2009**

- Pond Inlet: Spoke with SAO of Pond Inlet this morning. The hamlet uses a water reservoir out beside the river and have capacity to pull water from the river to replenish the reservoir, but haven't needed to do this in 2 years. There are no plans to relocate the water source for the hamlet at any time in the future. Watershed drawn for river drainage area.
- Resolute: Spoke with Duncan on phone. Using Char Lake but currently looking at secondary sources of water. CGS representative was in last week to explore the possibilities with the community. Strip Lake (beside airport with visible breakwater/pipeline in GoogleEarth). Another possibility is Mineatte Lake to south of Airport, formerly used for water but pollutes with sewage and abandoned, needs to be retested. Also, Resolute Lake is another possibility (Largest lake, to SE of Mineatte Lake). None of these options extend the drainage outside the Hamlet boundary.
- Grise Fiord: Assumptions made after multiple calls to Hamlet office that water source is the river that runs through town. Map provided by Bob Chapple shows no water reservoir or source information, and also no info available on community plan.