

Attachment 7 - Greywater Disposal Details

The north-facing photo below shows the two greywater discharge locations at the Goose Camp, as follows:

- Lower arrow in foreground in photo (more southerly red and white arrow) – greywater discharged from the kitchen and men’s and women’s wash facilities.
- The upper arrow in the background (more northerly red and white arrow) – greywater discharged from the medical clinic and a second men’s and women’s wash facility



Currently, the greywater pipes discharge to a sump excavated in permeable soils within the active layer, underlain by permafrost. Discharged greywater both infiltrates into the active layer soils and overflows to wetland drainages that lead away from the camp (to the left in the photo) and eventually toward Goose Lake in the background in the approximate direction shown by the thicker red arrow. The minimum distance from the more northerly discharge to Goose Lake is in excess of 150 m.

Some enrichment of the vegetation within the greywater flow paths through the wetland is evident. The Water Licence Inspector noted that the discharges are nutrient rich, causing algal blooms. Sabina believes that this is in reference to increased vegetation growth near the discharges, as well as elevated nutrient parameters in ponded water within the wetland flow path. There is no indication of enrichment of the wetland as it approaches Goose Lake.