

Water Quality Objective Monitoring, Mayo River Watershed, 2009

In 2009, 2 samples were taken as part of the water quality monitoring protocol and an additional 30 samples were collected by E.M.R staff during routine mine inspections.

Basin total flow data was provided to us by the Yukon Energy station located at the Mayo Lake Outlet. Flow data for the individual tributaries to the Mayo River was collected at the time of sampling by the staff of E.M.R CS&I using the methodology outlined in the Water Quality Objectives Monitoring Protocol.

Site Codes and Global Position of Water Quality Sampling Locations in the Mayo Lake Watershed

SITE CODE	LOCATION	LAT_Y	LONG_X
M 01	Mayo River mouth	63.59297	-135.90965
M 04	Mayo River u/s Hight Creek	63.73728	-135.75497
M 06	Mayo River d/s bridge u/s Davidson	63.76857	-135.44739
M DCN 01	Duncan Creek Below All Mining (BAM)	63.78395	-135.50555
M DVN 01	Davidson Creek mouth	63.76793	-135.45035
M HIGH 01	Hight Creek mouth	63.72393	-136.07204
M MIN 01	Minto Creek mouth	63.70271	-135.87244

Water Quality Objective monitoring, Mayo Lake Watershed – Summary

The provisions of the *Yukon Placer Authorization* continued to apply in the Mayo River watershed for the 2009 operating season and will remain in place until such time as a new authorization is approved for this watershed.

On July 16th, 2009, the failure of a settling pond at a mining operation located on Lightning Creek resulted in the short duration deposit of a high concentration of both settleable and suspended solids downstream into Duncan Creek. Mining was suspended immediately at the operation, stopping the discharge of additional sediment from the pond.

