



Mount Polley Mining Corporation

an Imperial Metals company

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December 5, 2014

Ministry of Environment
 Mining Operations Environmental Protection
 2080 Labieux Rd.
 Nanaimo, BC
 V9T 6J9

WEEKLY POST-TSF BREACH REPORT – WEEK OF NOVEMBER 26 – DECEMBER 2, 2014

Water Management and TSF Works

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|--|--|
| Polley Lake Dewatering | <p>Polley Lake water elevation = 921.59 m (December 1st)</p> <p>Pumps previously used to lower the Polley Lake water level and maintain the water level within its natural range were removed on November 27th. The lake is now frozen.</p> <p>Design work for a weir structure at the outlet of Polley Lake is in the final stages.</p> |
| Breaches | <p>No breaches of the water management system containing water flow from the Tailings Storage Facility (TSF) occurred this week.</p> |
| TSF and Water Management Structures | <p>The following projects are underway (refer to Figure 1 for a map of all works):</p> <ul style="list-style-type: none"> • A ditch continues to be excavated along the south end of the Plug Access Road (PAR) for the proposed Polley Lake outflow channel. Tailings are being sent to the TSF and organic material is being stockpiled. • Breach stabilization continues with excavation of the North Abutment (the embankment to the north of the breach). On dayshift upstream excavation is taking place, while downstream excavation is ongoing on day and night shifts. Material is placed upstream of the embankment for stabilization purposes and rock is being stockpiled along the PAR for short-term construction. • The first 3 metre buttress lift along the Perimeter Embankment continues to be constructed over the area prepared in 2013. A portion of the material being excavated from the abutment stabilization project is being placed as buttress for the Perimeter Embankment. • The foundation preparation for additional buttressing along the Perimeter Embankment is 25% complete. <p>All water from TSF water collection systems is currently transferred to Springer Pit via the Central Collection Sump. Water from the Breach Pump is transferred via the Breach Sump and Ditch to the Till Borrow Pit to allow settling of suspended solids prior to being transferred to the Central Collection Sump. Note that the red line showing transport of overflow water from the Till Borrow to the TSF is proposed infrastructure that is not currently in place.</p> |

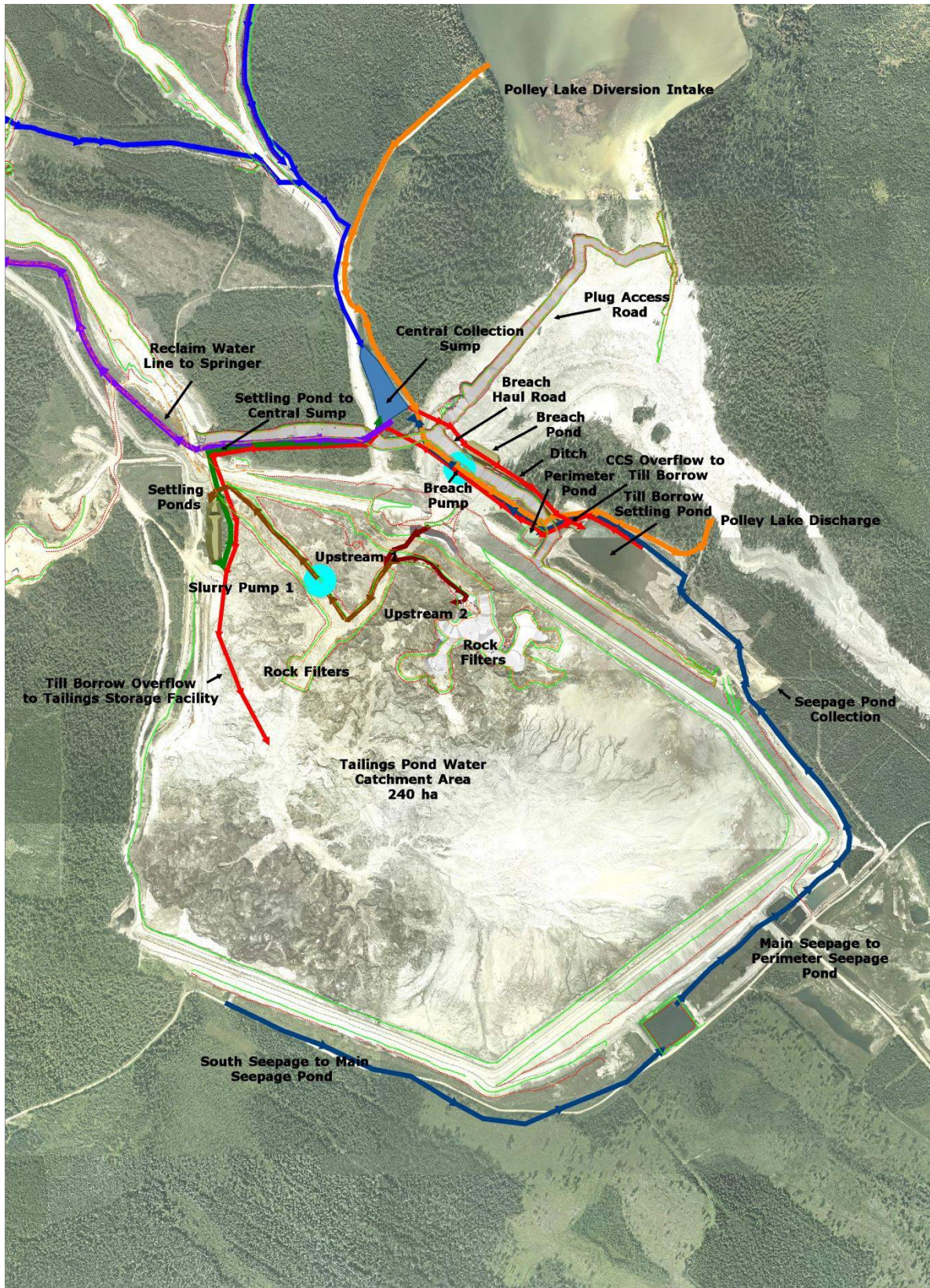


Figure 1. Tailings Storage Facility construction works

Sediment and Erosion Control Measures

| | |
|--------------------------------------|--|
| <p>Silt Curtain</p> | <p>The silt curtain attached to the log boom at the mouth of Hazeltine Creek continues to remove sediment from the water column. The curtain is in good condition.</p> |
| <p>Sediment Control Works</p> | <p>Current sediment and erosion control works underway on lower Hazeltine Creek (below the Ditch Road) include:</p> <ul style="list-style-type: none"> • Construction of the Upper and Lower Sedimentation Ponds (see Section 5 of the Lower Hazeltine Creek Erosion and Sediment Control Plan [the Plan]). Excavation and construction of berms for the Upper and Lower Ponds is approximately 95 to 98 % complete. Completion of inlet and outlet structures and final steps (geotextile, rip rap, etc.) is underway. If no delays are encountered, it is anticipated these ponds will be commissioned in approximately one week. • Screening of material for creek restoration (Design Drawings in the Plan). • Upgrading of access roads (Section 4 of the Plan). • Re-grading and landscaping of select areas (Sections 4 and 9 of the Plan). • Installation and maintenance of sediment control measures including silt fences and straw bales (see Section 5 of the Plan). <p>Rehabilitation work in the lower 100 metres of Edney Creek has commenced. The pump around system is in operation and the energy dissipation structure at the outlet is working effectively. Pumps are being run on manual, supervised by two environmental monitors. While pump challenges were encountered in the cold weather this week, they are currently handling the water effectively. A spill kit and the fish exclusion barrier are in place. Construction of the new channel is underway, with material being removed. Construction of a temporary access road, which will require culverts, is planned. A summary of the fish salvage work completed was submitted to MOE, FLNRO and DFO on December 3rd.</p> <p>Environmental construction monitoring is occurring continuously during all activities. No change in turbidity in the creek water has been detected as a result of the construction</p> <p>Plans to complete sediment and erosion control works in middle and upper Hazeltine Creek are in progress. Steps are being taken to work with the appropriate regulatory bodies to confirm the procedure for carrying out these works.</p> |

Water Quality Monitoring Program

The maps on pages 1 – 8 of Figure 5 (attached) show locations that have been sampled as part of the water quality monitoring program. The following table is a summary of the current water quality monitoring program. The only change to the monitoring program this week was discontinuation of weekly sampling at a reference site on the Cariboo River (CAR-01) and a sample location downstream of the confluence of the Cariboo and Quesnel Rivers (QUR-7). There is no winter access to these sites due to snow.

All scheduled samples were completed this week except for QUL-112/112a, which could not be carried out because of unsafe weather conditions. Profiles at sites QUL-66 and QUL-79 were not taken on the day when field parameter casts were completed at the “profile only” sites, because profiles and sampling had been completed on the previous day (November 25th).

| Frequency | Area | Sample Locations |
|-----------|-----------------|---|
| Daily | Quesnel River | QUR-1 |
| | Hazeltine Creek | HAC-01a |
| Weekly | Quesnel Lake | <u>Samples and profiles:</u> QUL-18, QUL-66a, QUL-79, QUL-112/QUL-112a <u>Profiles only:</u> QUL-22, QUL-21a, QUL-18, QUL-66a, QUL-66, QUL-2a, QUL-79, QUL-40a, QUL-120/QUL-120a |
| | Hazeltine Creek | HAD-1 (when pumping), HAC-05 |
| | Quesnel River | QUR-7 |
| | Cariboo River | CAR-01 |

The monitoring program also includes a sonde (datalogger) that is deployed in the Quesnel River at the Quesnel River Research Centre (site QUR-1). The sonde measures field parameters (pH, specific conductance, dissolved oxygen, temperature) every 15 minutes. Equipment issues were experienced from November 19th to 28th and no data could be logged during this period, despite troubleshooting efforts. A different sonde was deployed on November 28th and has been recording data since its installation.

Figure 2 shows a time series graph of turbidity results from sample location QUR-1 on Quesnel River (at the Quesnel River Research Centre). The turbidity data is from laboratory analysis completed by ALS Environmental.

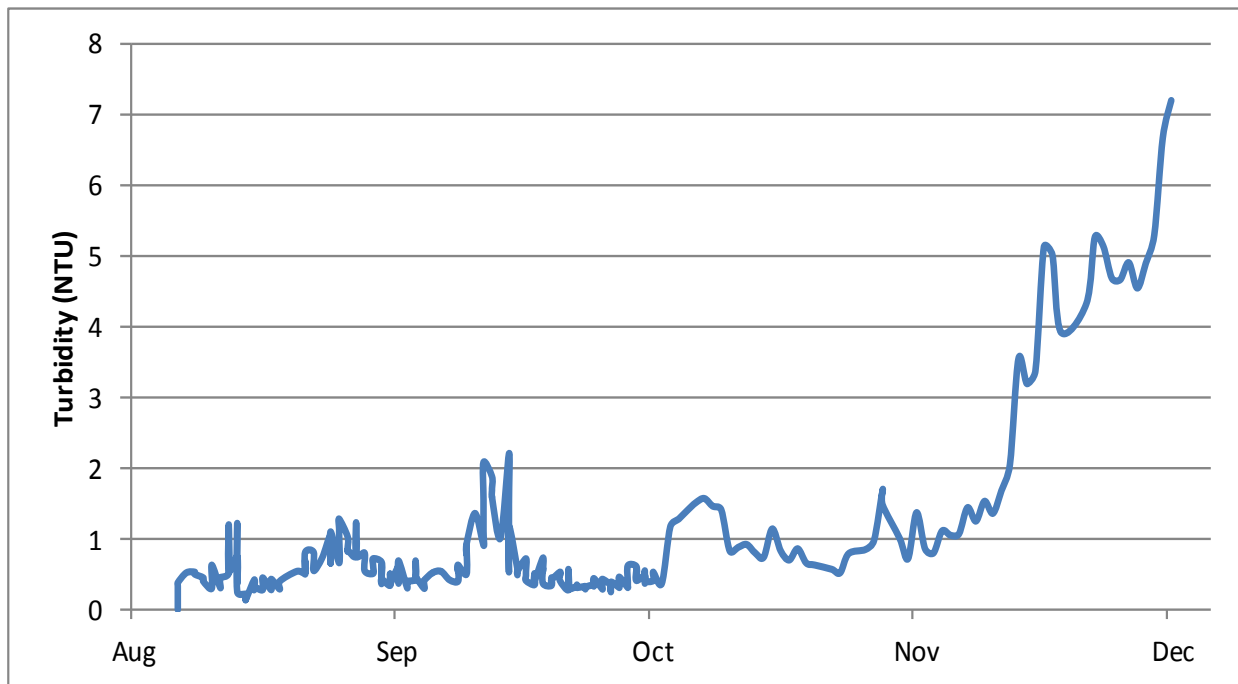


Figure 2. Turbidity time series at sample location QUR-1 (August 6th – December 1st)

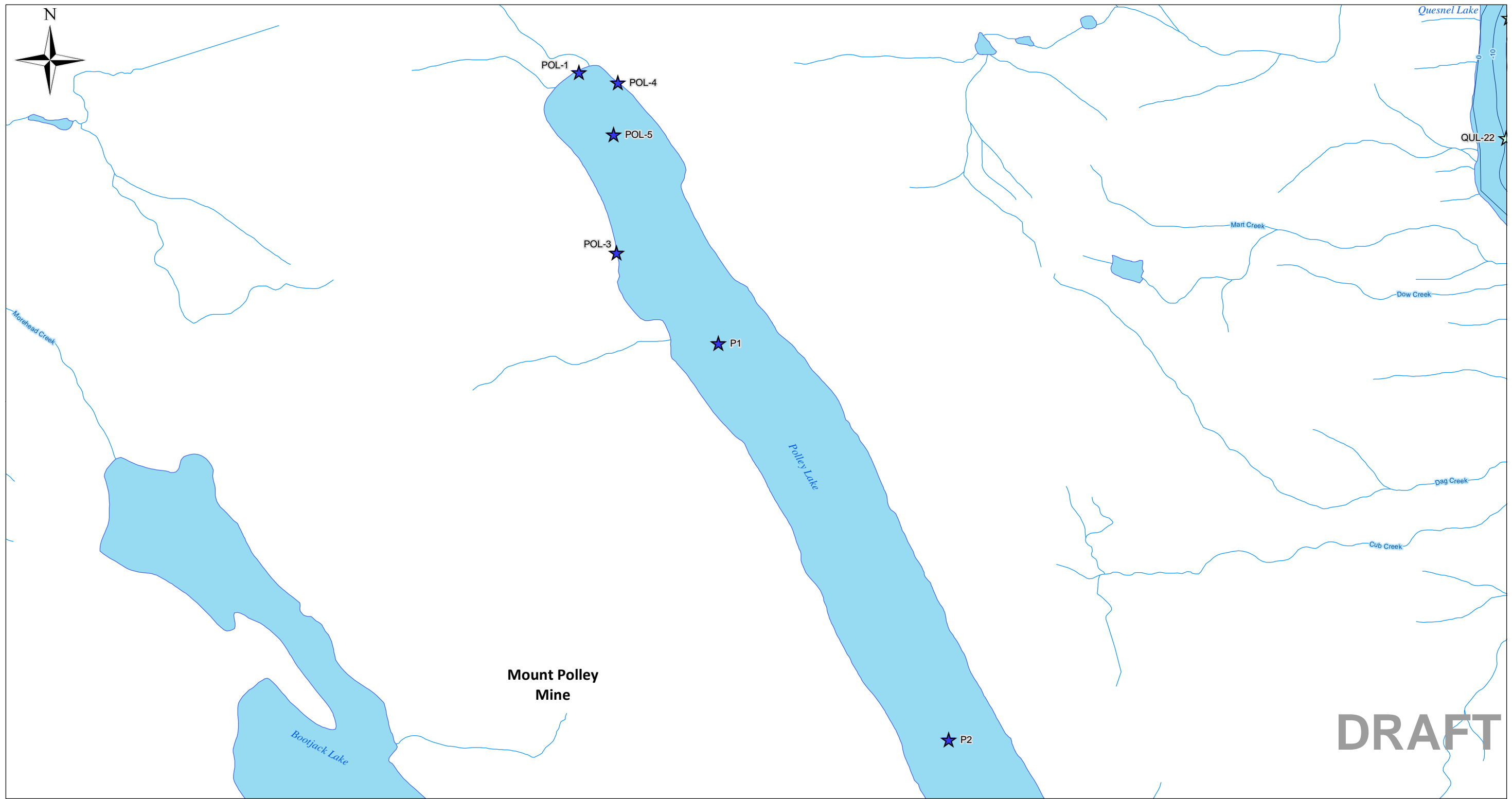
Publication of Environmental Monitoring Results & Remediation Updates

Mount Polley will continue to present interpreted data and updates on remediation works on the [Mount Polley Updates](#) page of the Imperial Metals website. No information notices were published this week. Compilation of water quality data is ongoing, and Mount Polley is actively working to publish additional information in a timely manner. It is also anticipated that a document summarizing findings from Phase 1 of the Hazeltine Creek geochemical characterization will be released within a couple of weeks.

ATTACHMENTS

Drawings:

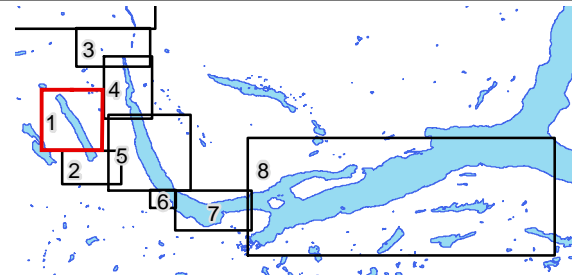
612717-005-P1 through 612717-005-P8: Current Monitoring Locations (Figure 5)



LEGEND

Surface Water Sampling Locations

- ★ Hazeltine Creek
- ★ Polley Lake
- ★ Quesnel Lake
- ★ Other Areas



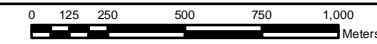
NOTES

1. Original in colour.
2. Numerical scale reflects full-size print. Print scaling will distort this scale, however scale bar will remain accurate.
3. Intended for illustration purposes, accuracy has not been verified for construction or navigation purposes.

* Note: Shoreline has been modified from the Fresh Water Atlas source data in the area of Hazeltine Creek Mouth to reflect post-release conditions.

REFERENCES

1. Data provided by Mount Polley Mining Corporation
2. Data downloaded from Data.Gov.BC.ca Data Distribution Service.
3. Orthophoto collected by McElhanney on August 5th, 2014



CLIENT NAME:
MPMC

PROJECT LOCATION:
Mount Polley Mine,
British Columbia

Figure 5: Current Monitoring Locations
Page 1 of 9

BY: CJW

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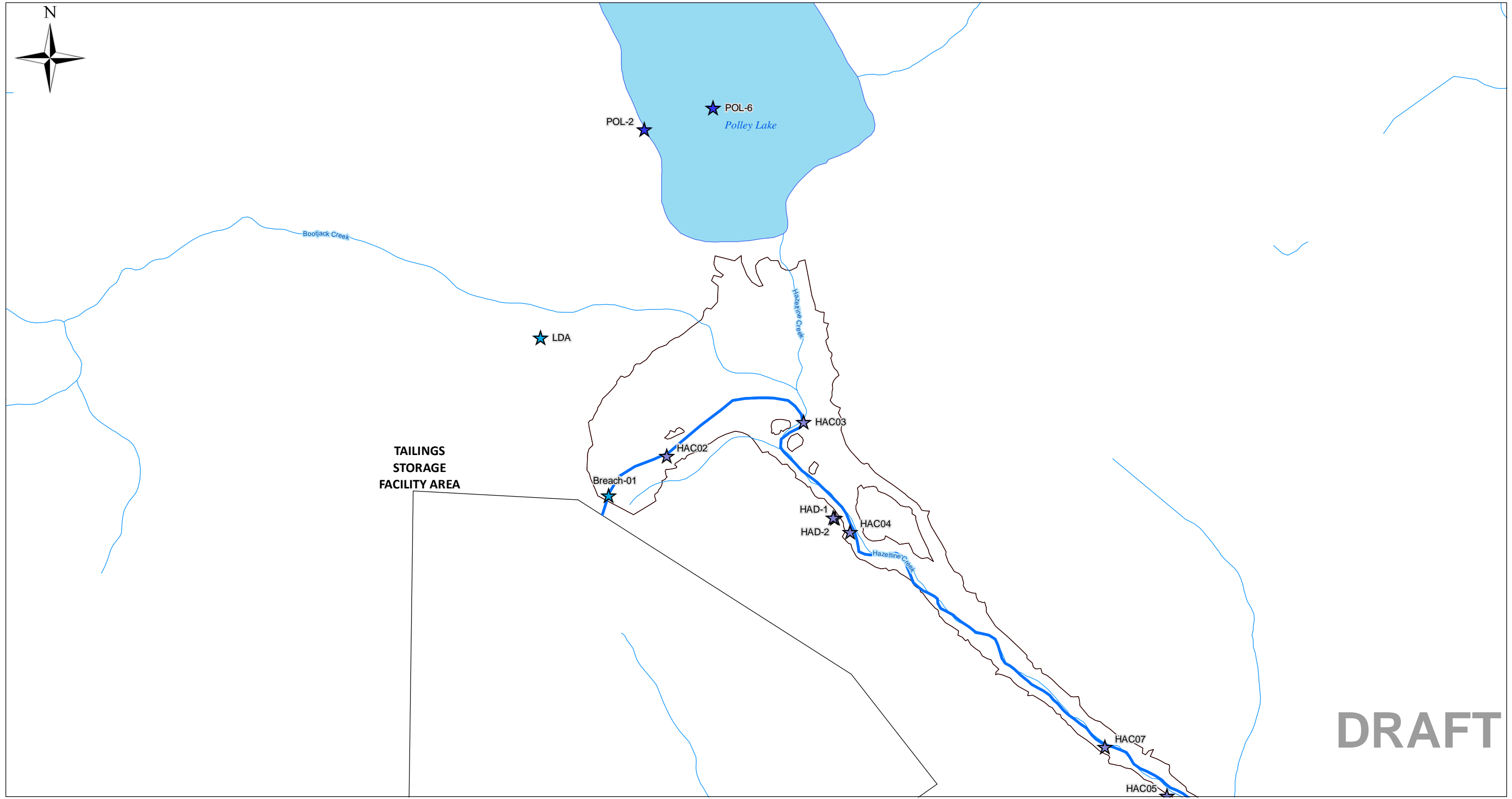
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REF No: REV: **7**

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PROJ COORD SYS: NAD 1983 UTM Zone 10N

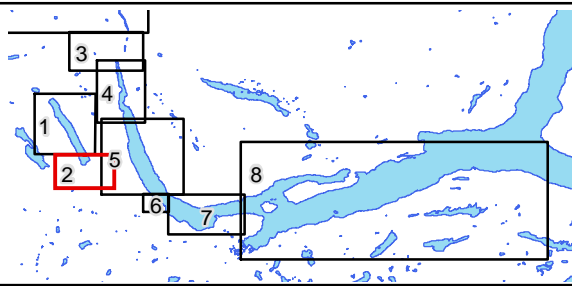
621717-005-P1



DRAFT

LEGEND

- Surface Water**
- ★ Hazeltine Creek
 - ★ Polley Lake
 - ★ Quesnel Lake
 - ★ Other Areas
 - New Hazeltine Creek Channel (Approximate)

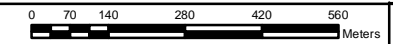


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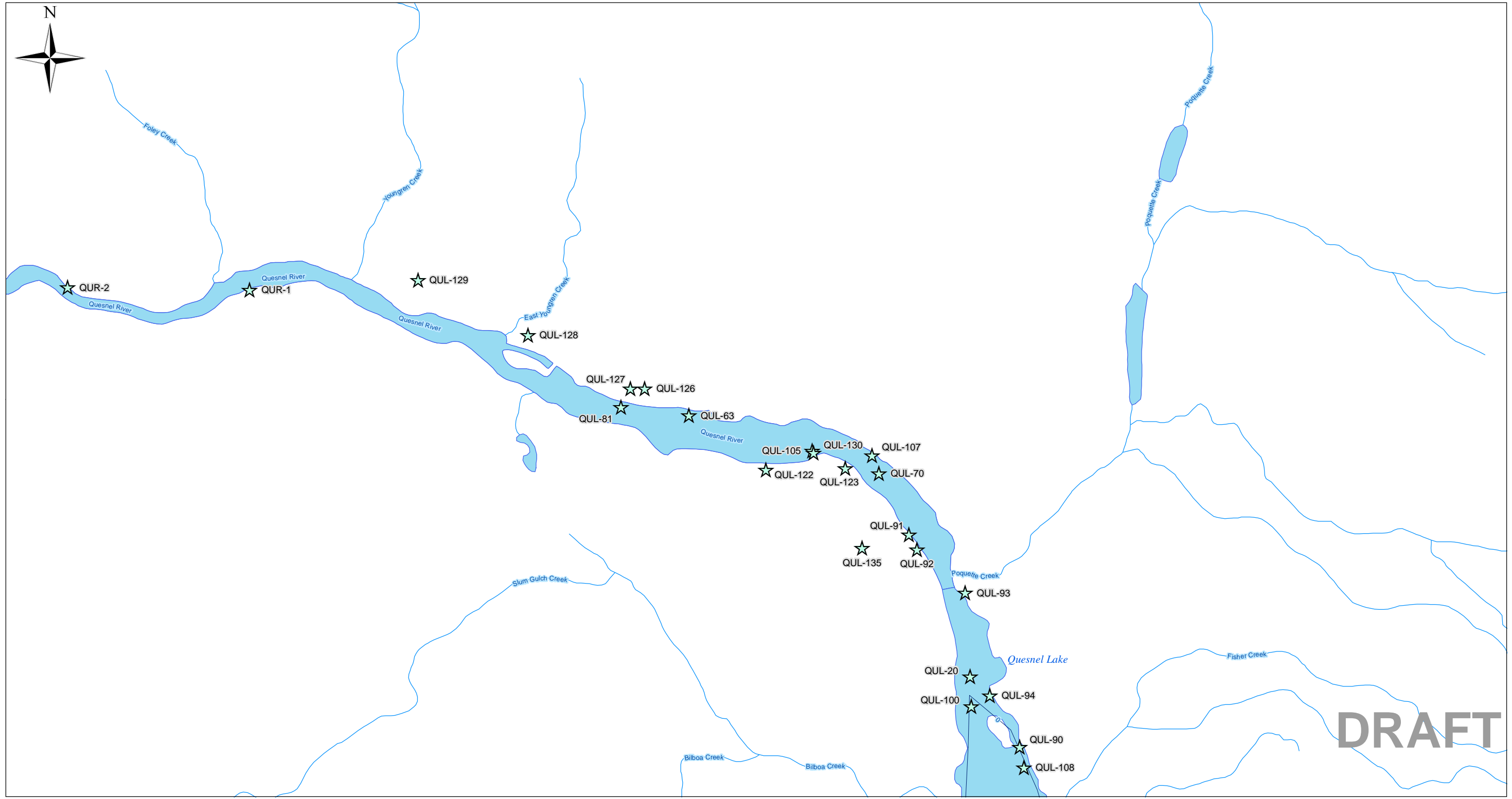


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| CLIENT NAME: MPMC | PROJECT LOCATION: Mount Polley Mine, British Columbia |
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Figure 5: Current Monitoring Locations
Page 2 of 9

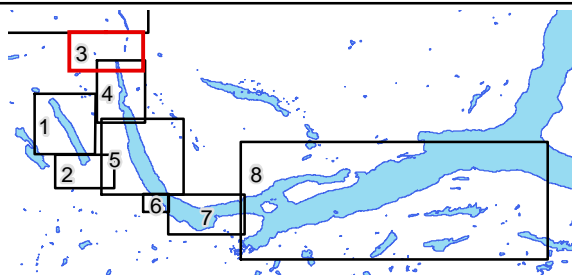
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LEGEND

- Surface Water**
- ★ Hazeltine Creek
 - ★ Polley Lake
 - ★ Quesnel Lake
 - ★ Other Areas

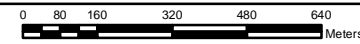


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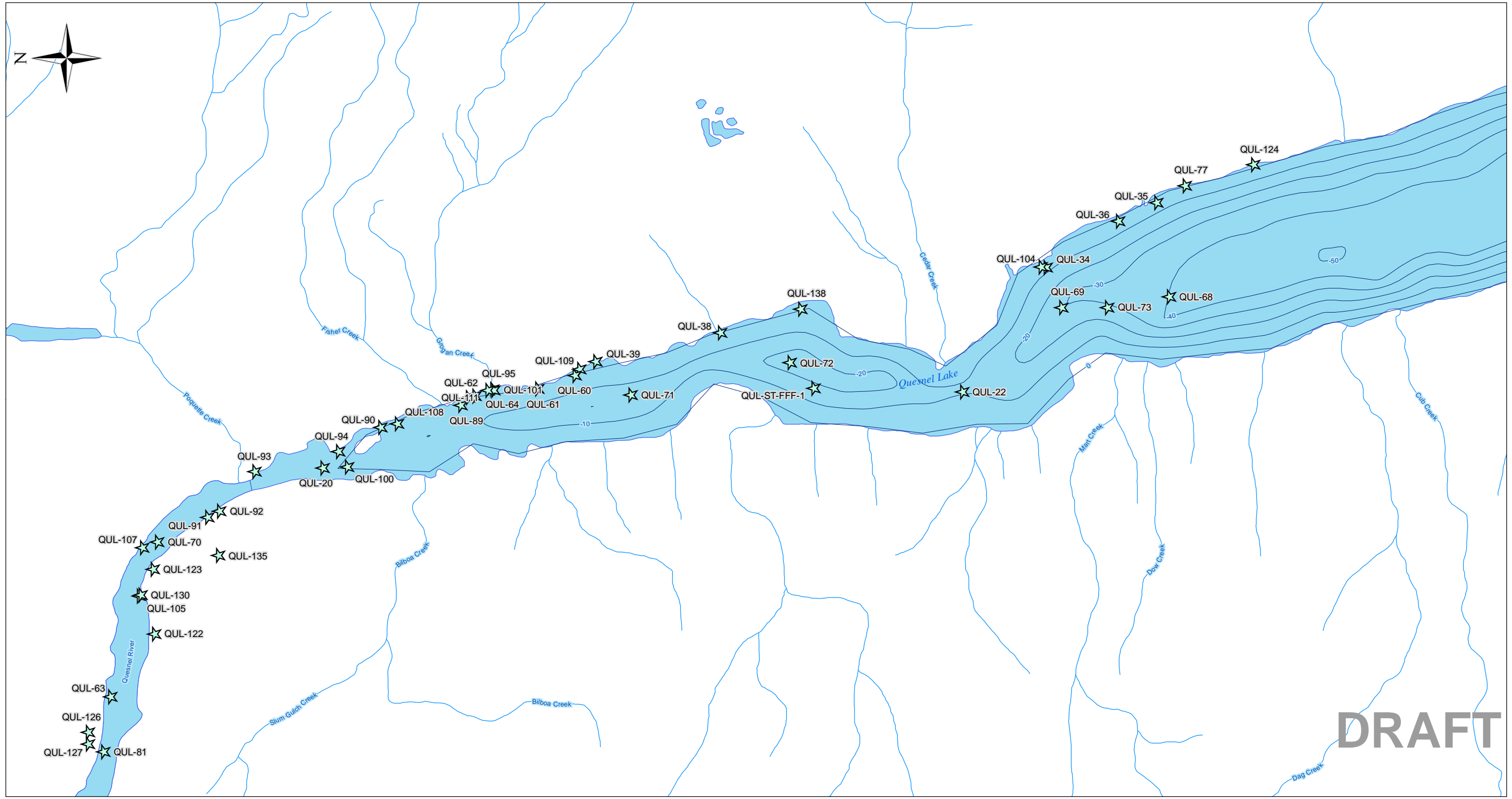


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| CLIENT NAME: MPMC | PROJECT LOCATION: Mount Polley Mine, British Columbia |
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Figure 5: Current Monitoring Locations
Page 3 of 9

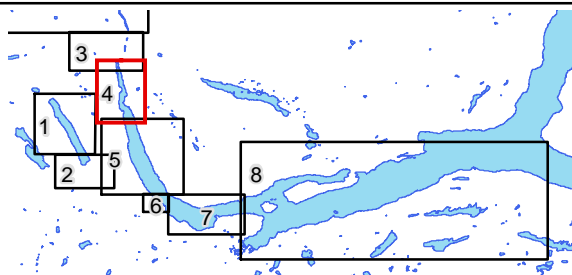
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LEGEND

- Surface Water**
- ★ Hazeltine Creek
 - ★ Polley Lake
 - ★ Quesnel Lake
 - ★ Other Areas

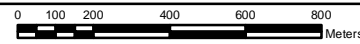


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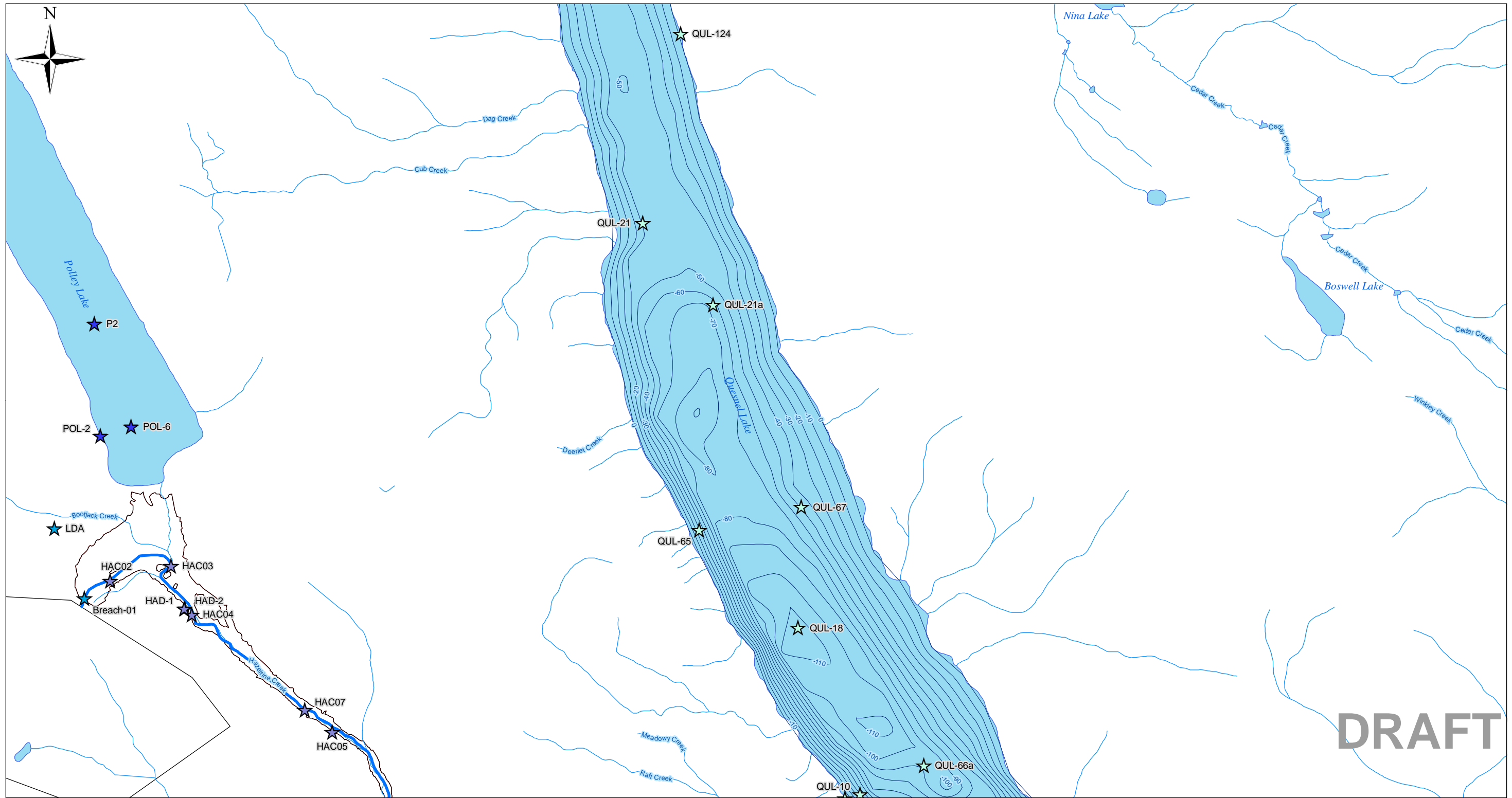
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| CLIENT NAME: MPMC | | PROJECT LOCATION: Mount Polley Mine, British Columbia | |
| Figure 5: Current Monitoring Locations Page 4 of 9 | | | |
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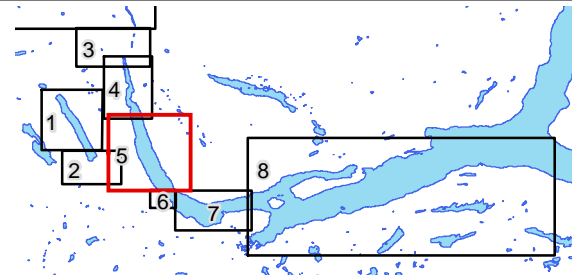
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LEGEND

- Surface Water Sampling Locations**
- ★ Hazeltnine Creek
 - ★ Polley Lake
 - ★ Quesnel Lake
 - ★ Other Areas
 - New Hazeltnine Creek Channel (Approximate)

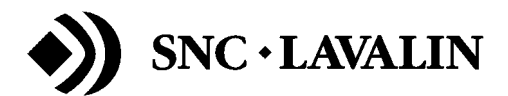
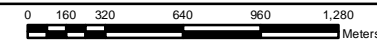


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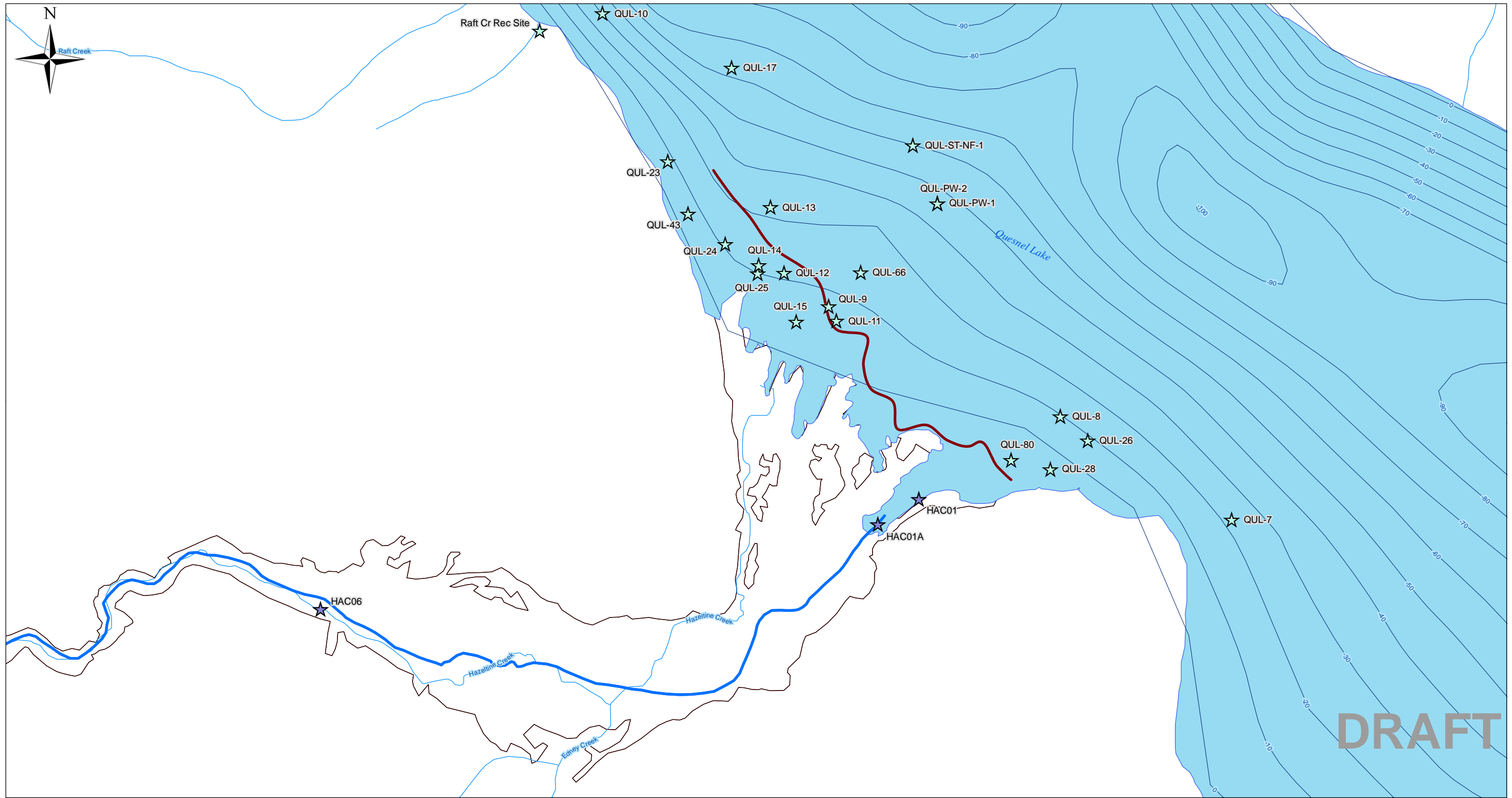


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Figure 5: Current Monitoring Locations
Page 5 of 9

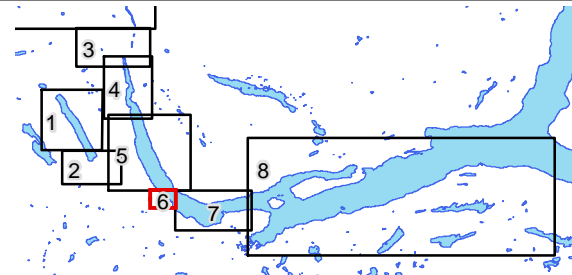
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LEGEND

- Surface Water Sampling Locations**
- ★ Hazelmine Creek
 - ★ Polley Lake
 - ★ Quesnel Lake
 - ★ Other Areas
 - Silt Curtain/Log Boom
- New Hazelmine Creek Channel (Approximate)

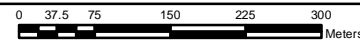


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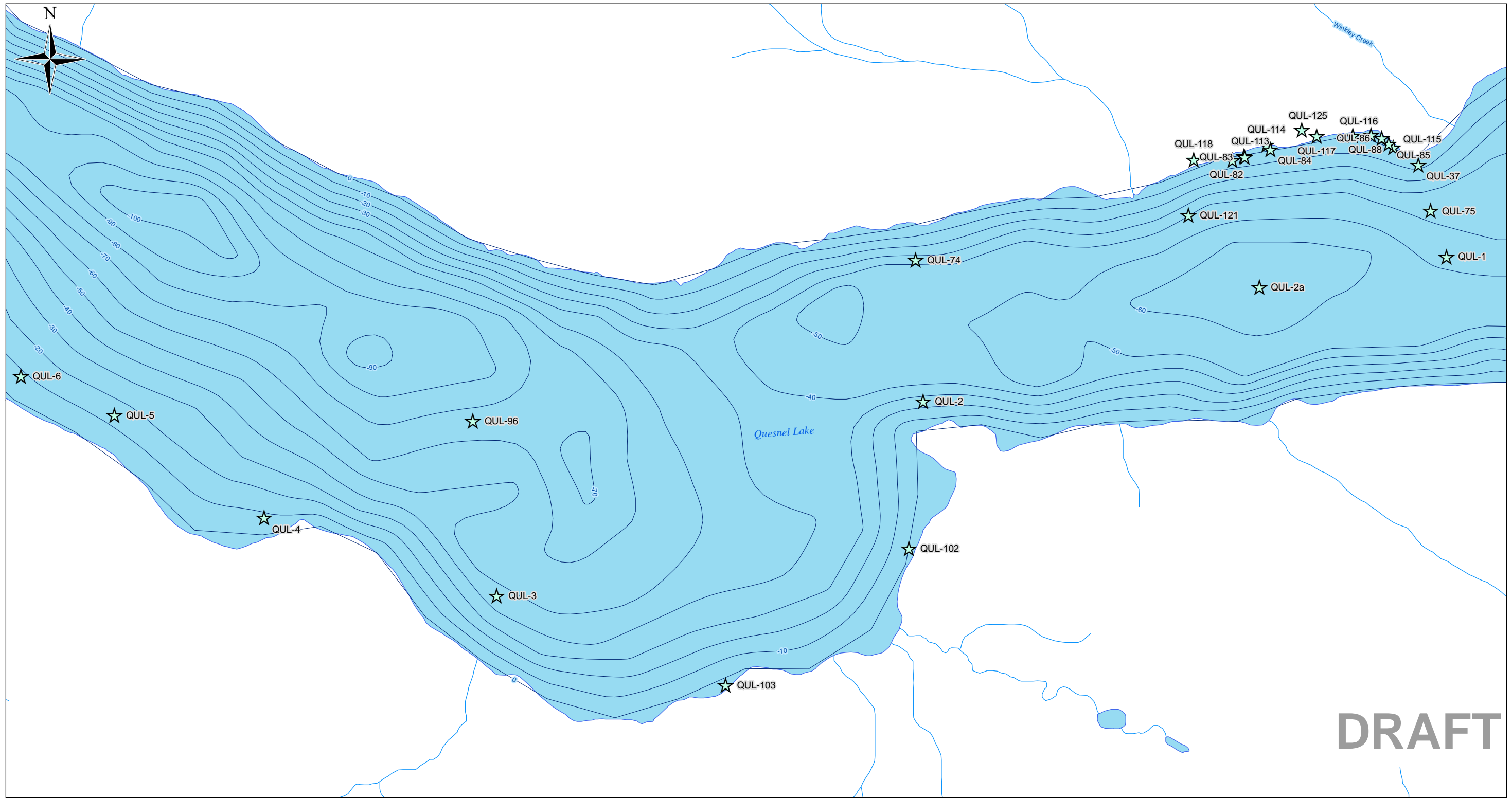


CLIENT NAME: MPMC PROJECT LOCATION: Mount Polley Mine, British Columbia

Figure 5: Current Monitoring Locations
Page 6 of 9

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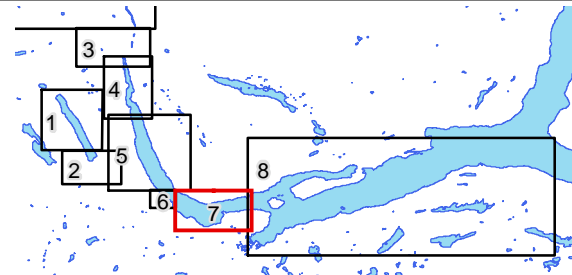
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LEGEND

Surface Water Sampling Locations

- ★ Hazeltine Creek
- ★ Polley Lake
- ★ Quesnel Lake
- ★ Other Areas

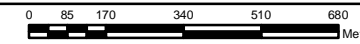


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Figure 5: Current Monitoring Locations
Page 7 of 9

BY: CJW

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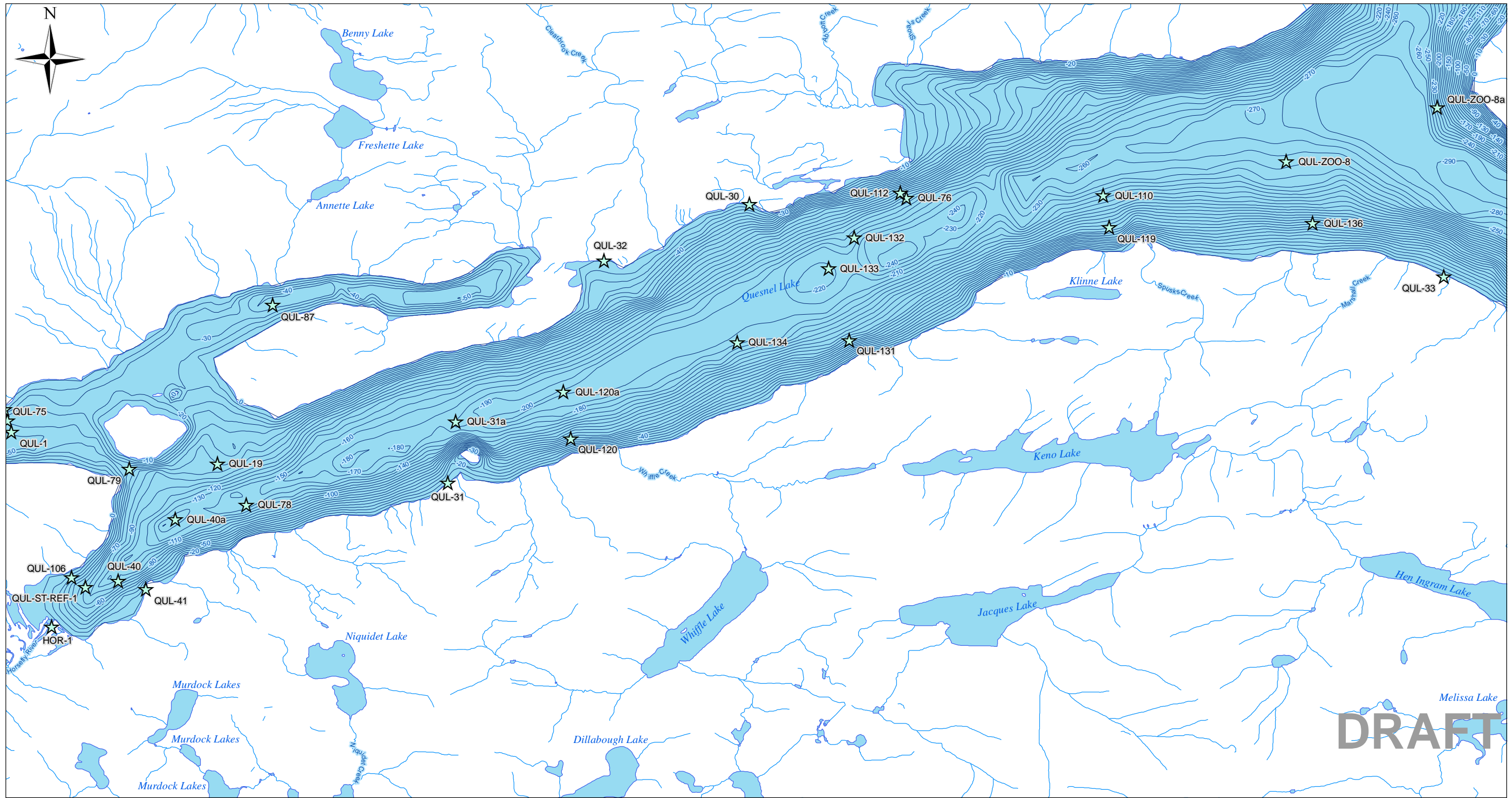
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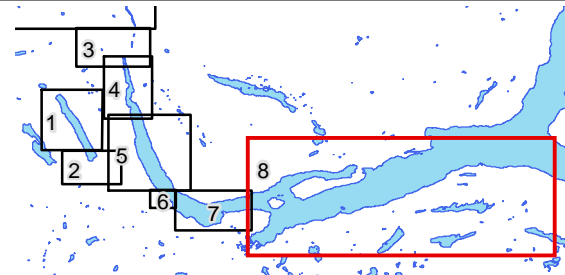
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LEGEND

Surface Water Sampling Locations

- ★ Hazeltine Creek
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- ★ Quesnel Lake
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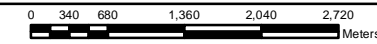


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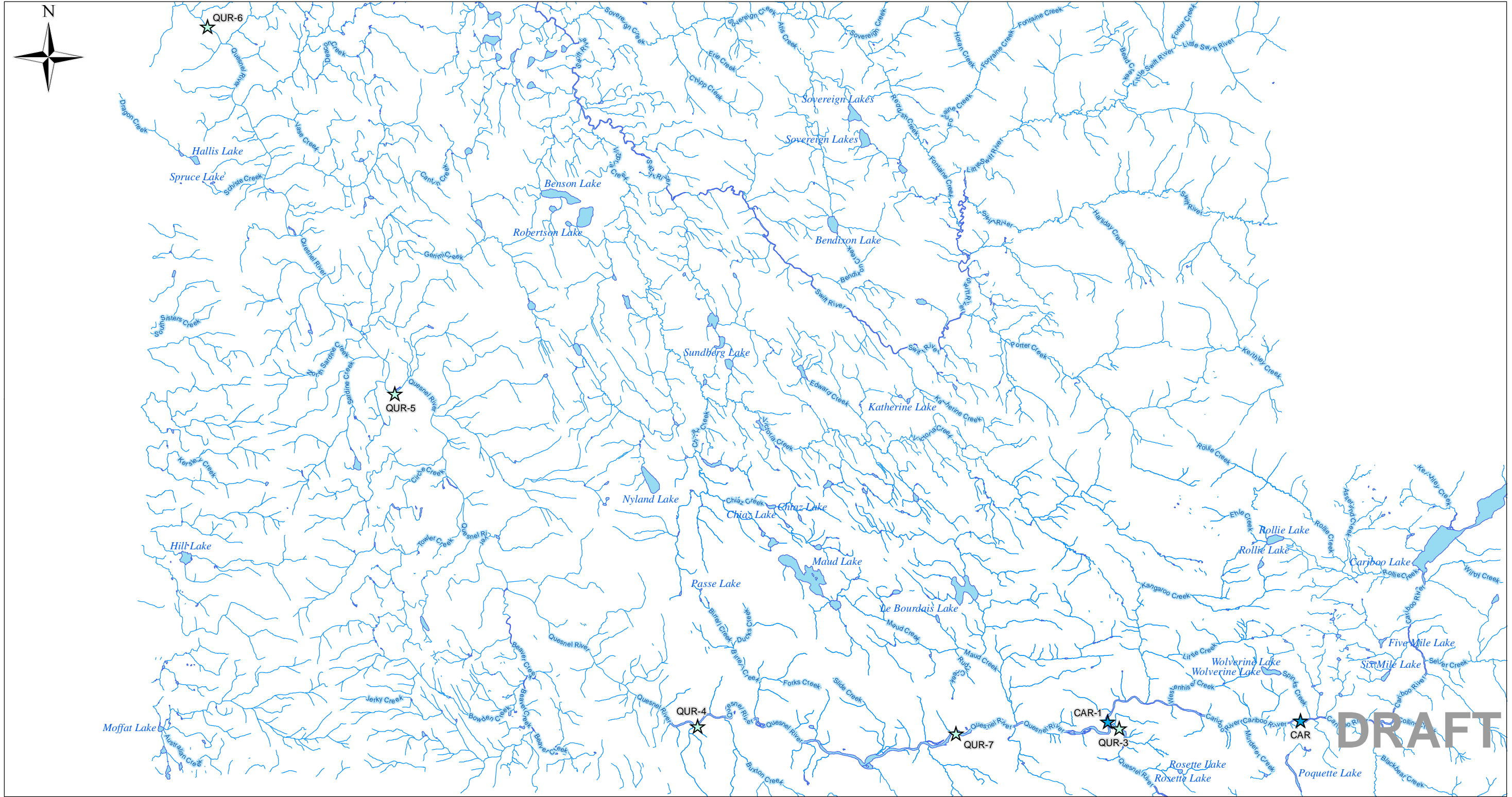


CLIENT NAME: MPMC
 PROJECT LOCATION: Mount Polley Mine, British Columbia

Figure 5: Current Monitoring Locations
 Page 8 of 9

BY: CJW SCALE: 1:66,800 DATE: 2014/12/03 REF No: 621717-005-P8 REV: 7
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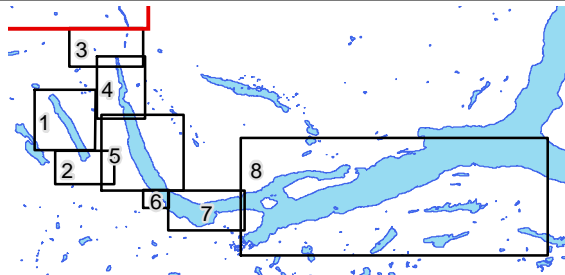
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LEGEND

**Surface Water
Sampling Locations**

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- ★ Polley Lake
- ★ Quesnel Lake
- ★ Other Areas

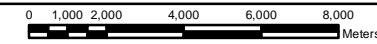


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|----------------------|---|

Figure 5: Current Monitoring Locations
Page 9 of 9

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|-----------|---------------------------------------|------------------|-----------------------|---------------|
| BY: CJW | SCALE: 1:195,400 | DATE: 2014/12/03 | REF No: 621717-005-P9 | REV: 7 |
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