Mount Polley Mining Corporation

an Imperial Metals company
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November 21, 2014

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

WEEKLY POST-TSF BREACH REPORT – WEEK OF NOVEMBER 12 – 18, 2014

Water Management and TSF Works

Polley Lake Dewatering	Polley Lake water elevation = 921.63 m (November 19th) To maintain the lake water level within its natural range, pumping from Polley Lake to Hazeltine Creek continued all week. Design work for a weir structure at the outlet of Polley Lake is in the final stages.
Breaches	No breaches of the water management system containing water flow from the Tailings Storage Facility (TSF) occurred this week.
TSF and Water Management Structures	All works shown in Figure 1 are complete, with the exception of the following projects: • The first 3 metre buttress lift along the Perimeter Embankment has started over the area prepared in 2013. • The foundation preparation for additional buttressing along the Perimeter Embankment is 8.5% complete. • The Plug Access Road (PAR) has extended south to Hazeltine Creek along the old channel. The next project is to excavate a 40m wide channel down to native soil east of the road PAR, with excavated tailings being returned to the TSF. 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.

Figure 1. Tailings Storage Facility construction works

Sediment and Erosion Control Measures

Silt Curtain	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.
Sediment Control Works	Current sediment and erosion control works underway on lower Hazeltine Creek (below the Ditch Road) include: • Construction of the Upper and Lower Sedimentation Ponds (see Section 5 of the Lower Hazeltine Creek Erosion and Sediment Control Plan [the Plan]). The Upper Pond is nearly complete. The Lower Pond is approximately 85% complete. Completion of berms and final touches (connections, rip rap, etc.) are still outstanding. If no delays are encountered, it is anticipated these ponds will be commissioned in approximately 3 weeks. • 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 silt control measures including silt fences and straw bales (see Section 5 of the Plan). Rehabilitation work is planned for late November in the lower 100 m of Edney Creek. The pump around system is in place and fish salvage was completed. Construction of a temporary access road, which will require culverts, is planned. 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. Design work on the sediment and erosion control plan for upper Hazeltine Creek is complete and under review. Design work on the sediment and erosion control plan for middle Hazeltine Creek is underway.

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. All locations were monitored this week except for QUL-18, however, this site was sampled on November 11th and November 20th. Time/weather permitting sites QUL-2, QUL-31a, and QUL-87 were sampled this week.

Frequency	Area	Sample Locations
Daily	Quesnel River	QUR-1
	Hazeltine Creek	HAC-01a
Weekly	Quesnel Lake	QUL-2a, QUL-18, QUL-21a, QUL-40a, QUL-66, QUL-66a, QUL-112/QUL-112a, QUL-120/QUL-120a, QUL-zoo-8/QUL-zoo-8a
	Hazeltine Creek	HAD-1, HAC-05
	Polley Lake	P1, P2, POL-5, POL-6
2x/week	Quesnel Lake	QUL-79
Time/weather permitting	Quesnel Lake	QUL-2, QUL-20, QUL-21, QUL-22, QUL-31a, QUL-87, QUL-119

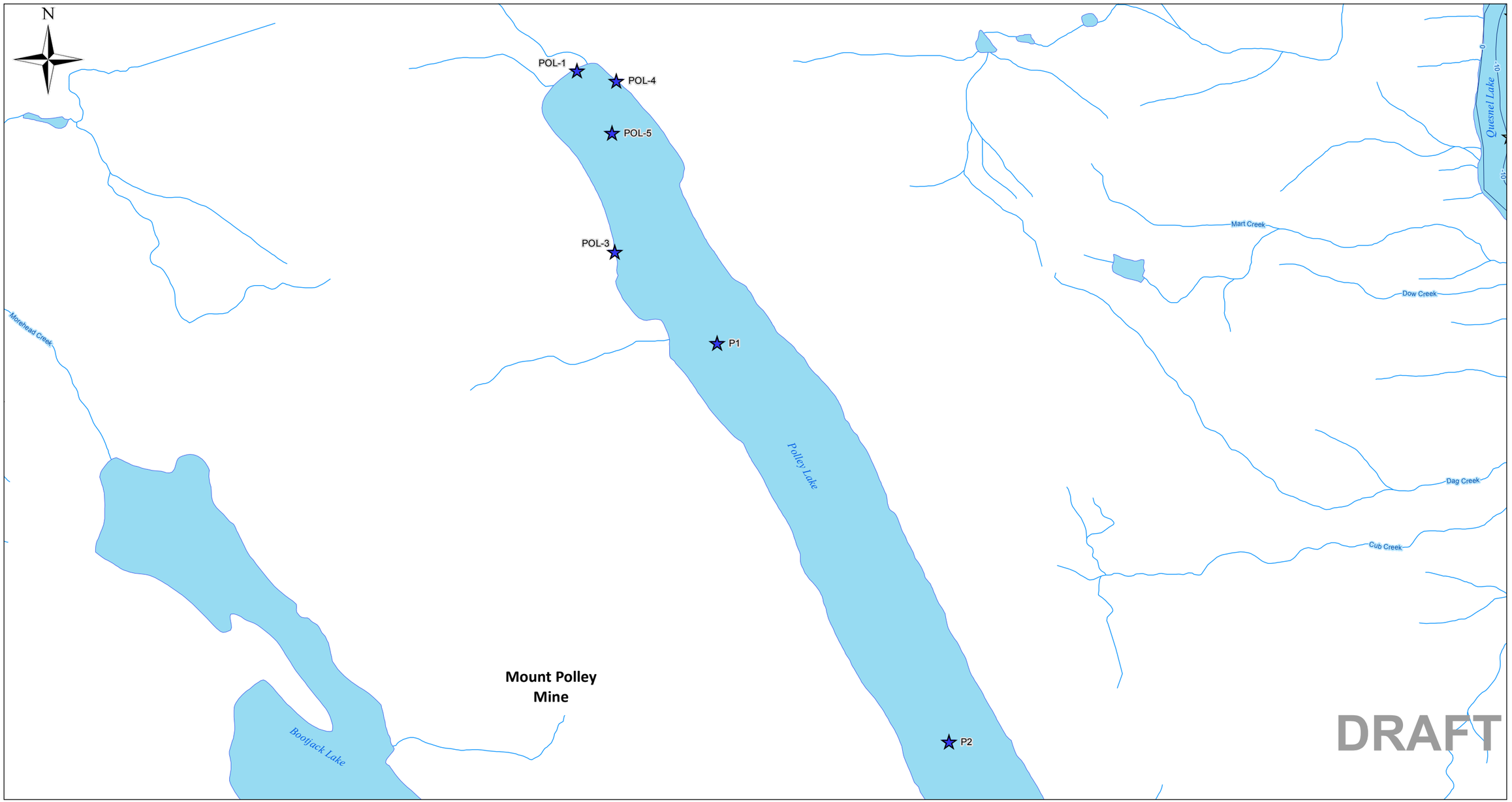
Environmental Monitoring Results

Mount Polley will continue to present interpreted data on the Mount Polley Updates page of the Imperial Metals website. On November 12th a poster presenting data on Quesnel Lake physical limnology was posted on the website, and on November 14th a notice on Quesnel Lake Cloudiness at Lake Overturn was published. Hard copies of the notice regarding overturn were also distributed to residents in Likely, Horsefly, and Mitchell Bay.

ATTACHMENTS

Drawings:

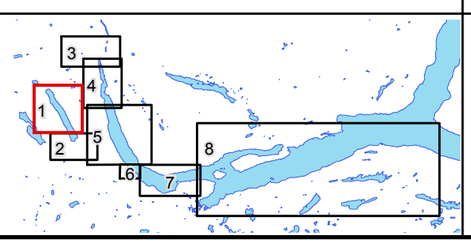
612717-005-P1 through 612717-005-P8: Current Monitoring Locations (Figure 5)



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

0 125 250 500 750 1,000 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 1 of 8

BY: CJW	SCALE: 1:24,500	DATE: 2014/11/05	REF No:	REV: 7
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N

POL-6

Polley Lake

POL-2

Bootjack Creek

LDA

Hazeltine Creek

HAC03

HAC02

TAILINGS
STORAGE
FACILITY AREA

Breach-01

HAD-2

HAD-1

HAC04

Hazeltine Creek

HAC07

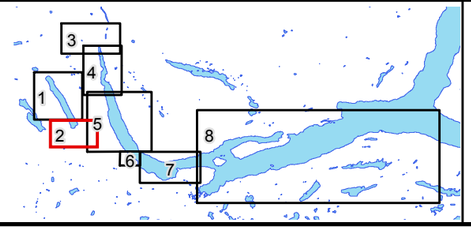
HAC05

DRAFT

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 70 140 280 420 560 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 2 of 8

BY: CJW	SCALE: 1:13,800	DATE: 2014/11/05	REF No:	REV: 7
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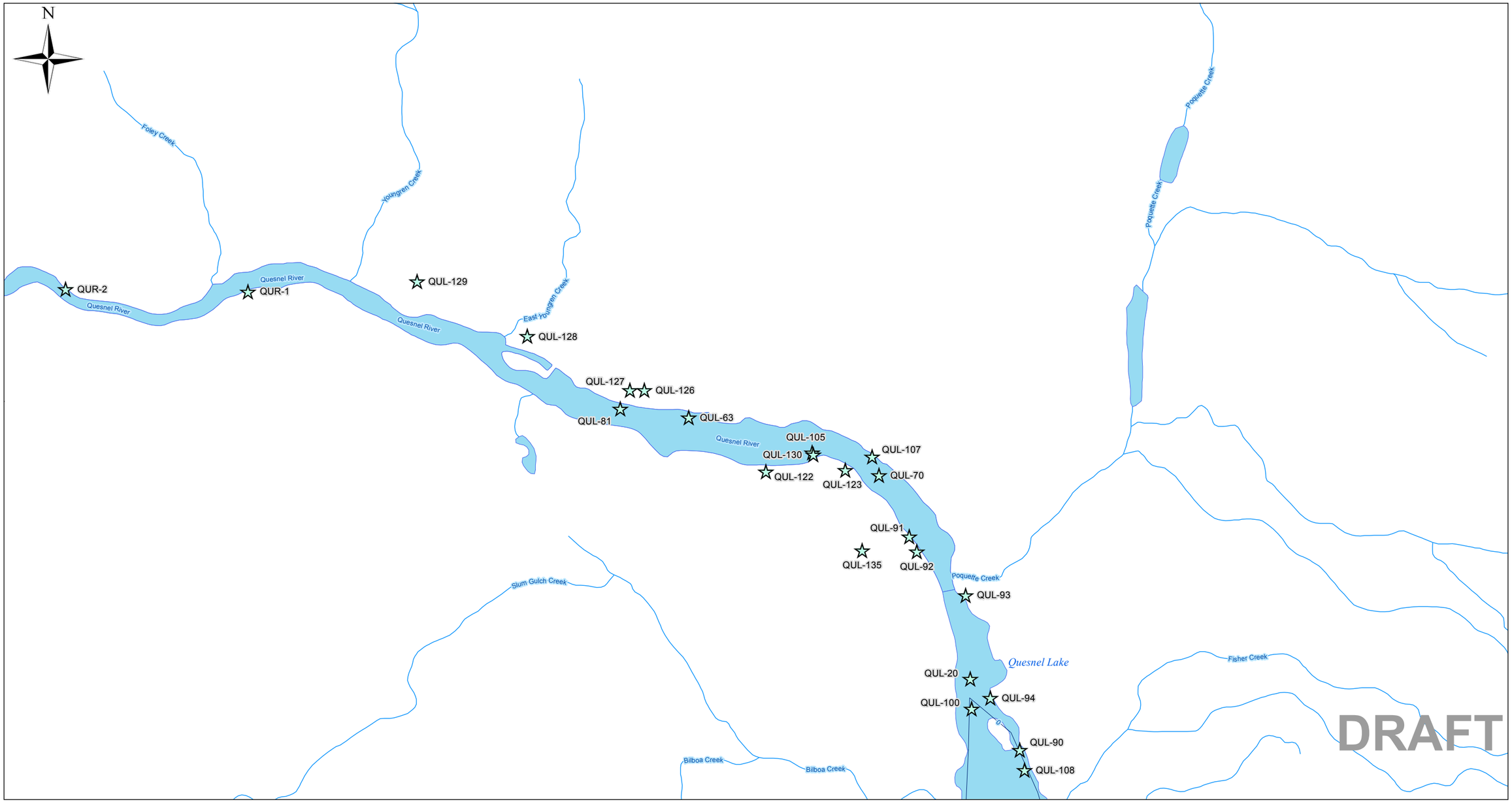
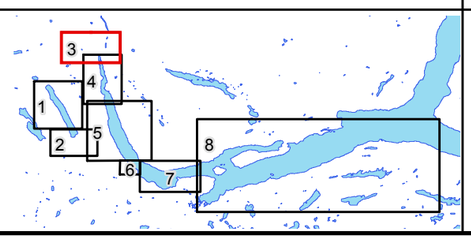


LEGEND

Surface Water Sampling Locations

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



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REFERENCES

0 80 160 320 480 640 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 3 of 8

BY: CJW	SCALE: 1:16,200	DATE: 2014/11/05	REF No:	REV: 7
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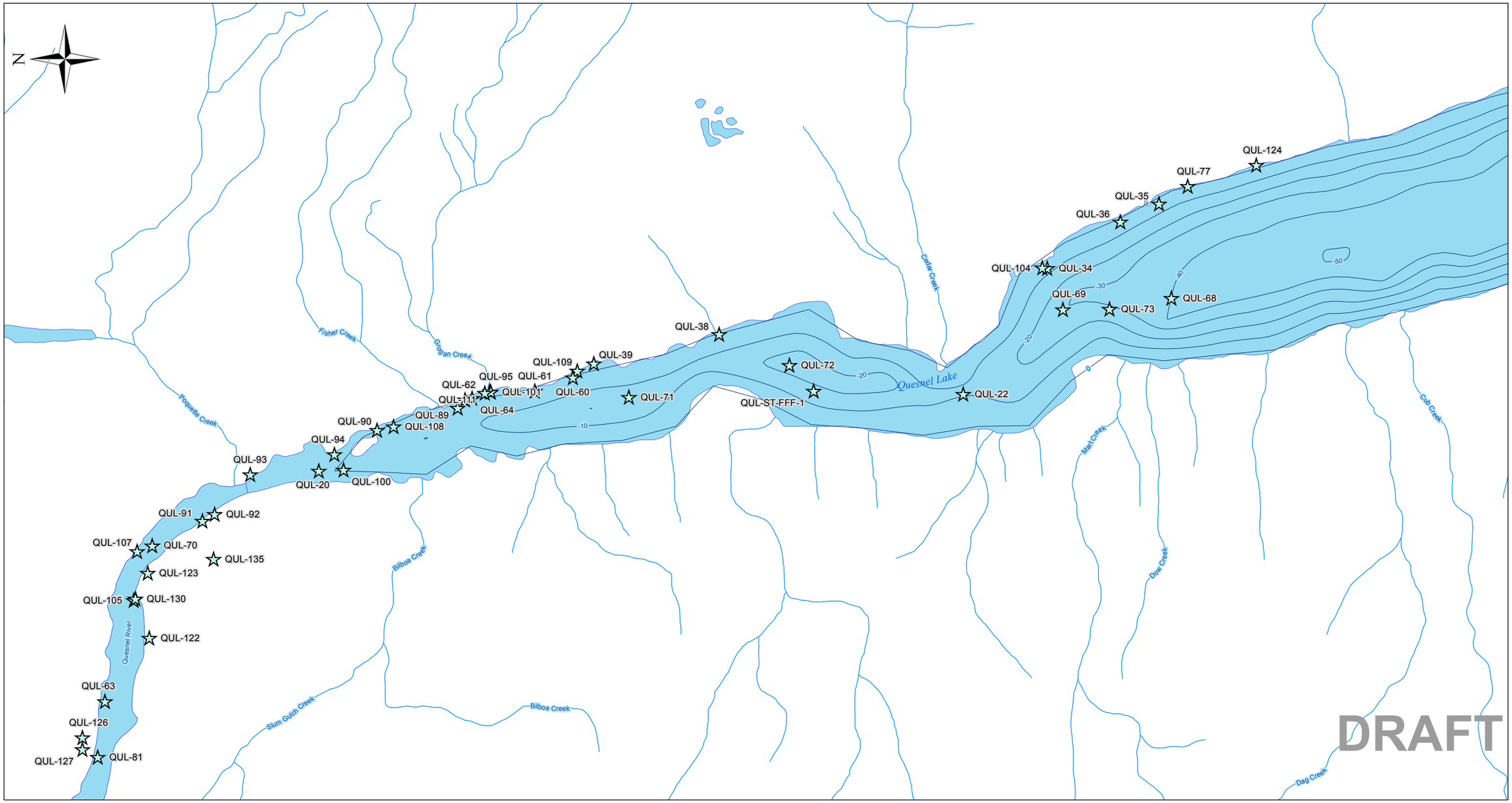
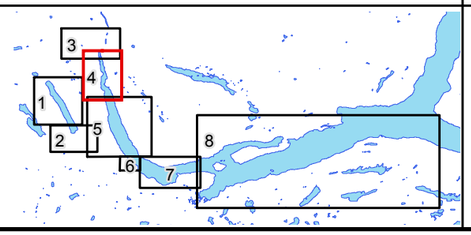


LEGEND

Surface Water Sampling Locations

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



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REFERENCES

0 100 200 400 600 800 Meters

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

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 4 of 8

BY: CJW	SCALE: 1:19,800	DATE: 2014/11/05	REF No: 621717-005-P4 REV: 7
CHK'D: JL	PROJ COORD SYS: NAD 1983 UTM Zone 10N		

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N

QUL-124

Nina Lake

Cedar Creek

Cedar Creek

Dag Creek

Cub Creek

QUL-21

Polley Lake

P2

QUL-21a

Boswell Lake

Cedar Creek

Cedar Creek

Quesnel Lake

Winkley Creek

POL-2

POL-6

Deerlet Creek

QUL-67

QUL-65

Booljack Creek

LDA

HAC02

HAC03

HAD-1

HAD-2

HAC04

Breach-01

QUL-18

Hazeltine Creek

HAC07

HAC05

Meadowy Creek

Raft Creek

QUL-66a

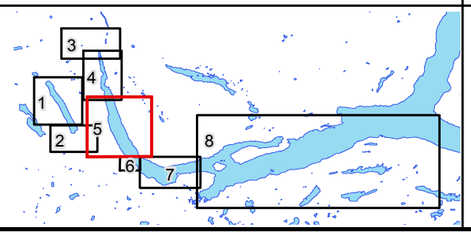
QUL-10

DRAFT

LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 160 320 640 960 1,280 Meters

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

SNC·LAVALIN

CLIENT NAME:	PROJECT LOCATION:
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Figure 5: Current Monitoring Locations
Page 5 of 8

BY: CJW	SCALE: 1:31,000	DATE: 2014/11/05	REF No:	REV: 7
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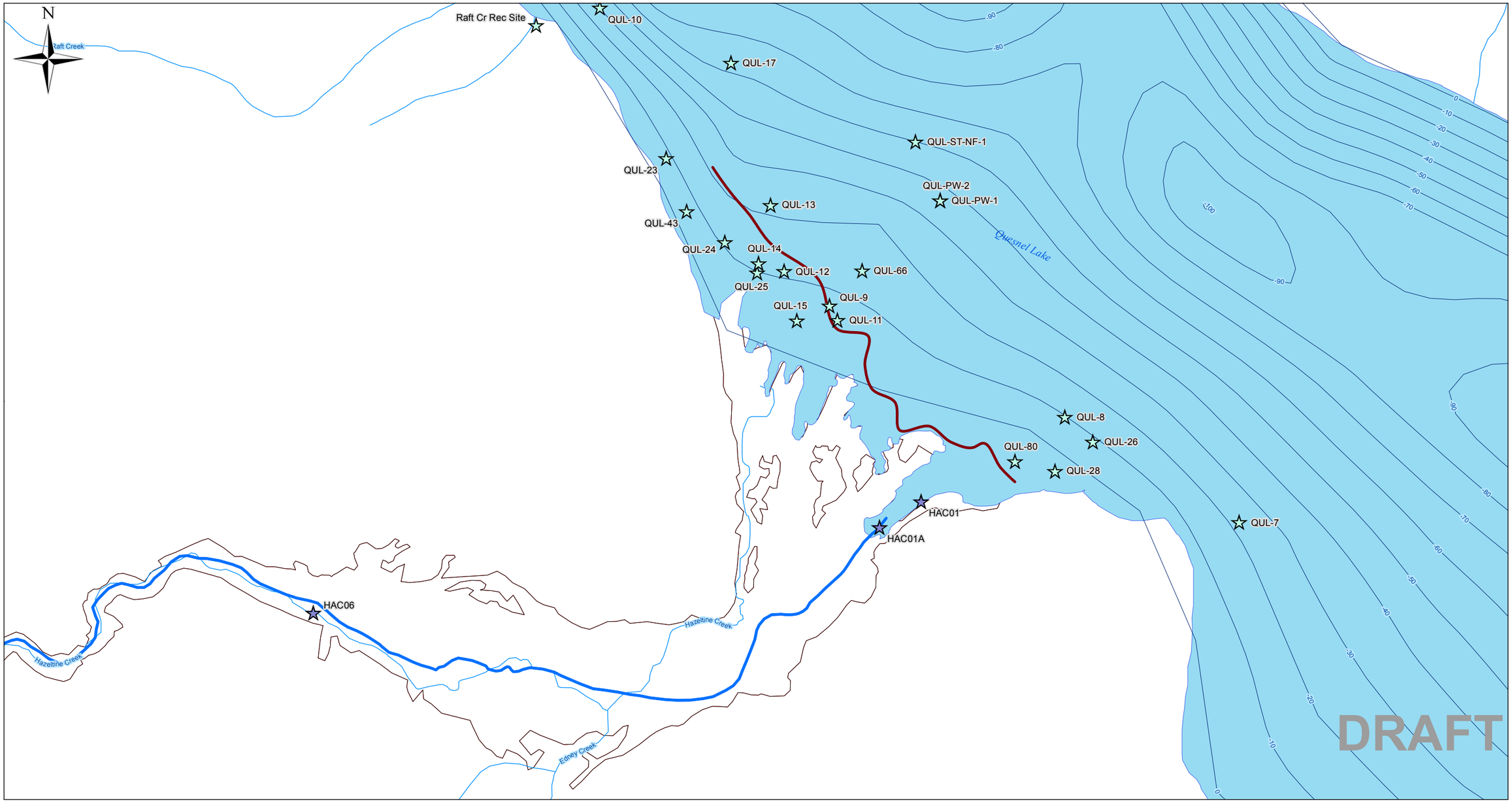


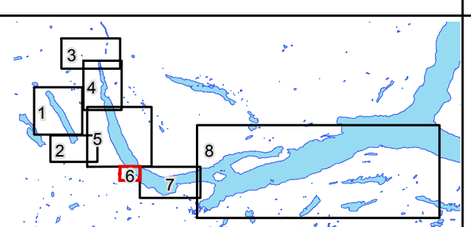
LEGEND

Surface Water Sampling Locations

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

Silt Curtain/Log Boom

New Hazeltine Creek Channel (Approximate)



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REFERENCES

0 37.5 75 150 225 300 Meters

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SNC·LAVALIN

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

Figure 5: Current Monitoring Locations Page 6 of 8

BY: CJW	SCALE: 1:7,400	DATE: 2014/11/05	REF No:	REV: 7
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N

Winkley Creek

QUL-125
QUL-116
QUL-114
QUL-86
QUL-115
QUL-118
QUL-113
QUL-117
QUL-88
QUL-83
QUL-84
QUL-85
QUL-82
QUL-37
QUL-121
QUL-75
QUL-74
QUL-1
QUL-2a
QUL-6
QUL-5
QUL-96
QUL-2
Quesnel Lake
QUL-4
QUL-102
QUL-3
QUL-103

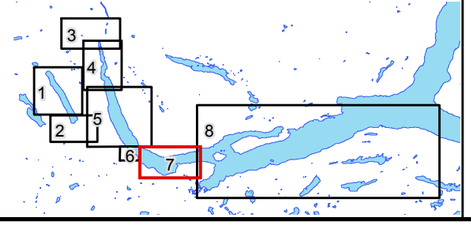
0 -10 -20 -30 -100 -90 -80 -70 -60 -50 -40 -30 -20 -90 -70 -50 -40 -50 -60 -50 -40 -70 -10 0

DRAFT

LEGEND

Surface Water Sampling Locations

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



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REFERENCES

0 85 170 340 510 680 Meters

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2. Data downloaded from Data.Gov.BC.ca Data Distribution Service.
3. Orthophoto collected by McElhanney on August 5th, 2014

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 7 of 8

BY: CJW	SCALE: 1:16,600	DATE: 2014/11/05	REF No: 621717-005-P7 REV: 7
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N

Benny Lake
Clearbrook Creek
Abbott Creek
Snowy Creek
Freshette Lake
Annette Lake
Quesnel Lake
Klinne Lake
Spusks Creek
Marshall Creek
Keno Lake
Whiffle Creek
Hen Ingram Lake
Jacques Lake
Whiffle Lake
Niquidet Lake
Murdock Lakes
Murdock Lakes
Murdock Lakes
Dillabough Lake
Melissa Lake
Mosseli River
Mosseli Creek

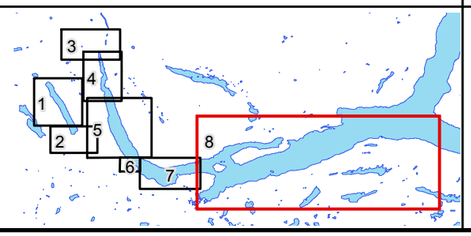
QUL-ZOO-8a
QUL-ZOO-8
QUL-30
QUL-112
QUL-76
QUL-110
QUL-136
QUL-132
QUL-119
QUL-32
QUL-133
QUL-33
QUL-87
QUL-134
QUL-131
QUL-120a
QUL-75
QUL-31a
QUL-1
QUL-120
QUL-79
QUL-19
QUL-31
QUL-78
QUL-40a
QUL-106
QUL-40
QUL-ST-REF-1
QUL-41
HOR-1

DRAFT

LEGEND

Surface Water Sampling Locations

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



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REFERENCES

0 340 680 1,360 2,040 2,720 Meters

1. Data provided by Mount Polley Mining Corporation
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3. Orthophoto collected by McElhanney on August 5th, 2014

SNC·LAVALIN

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

Figure 5: Current Monitoring Locations
Page 8 of 8

BY: CJW	SCALE: 1:66,800	DATE: 2014/11/05	REF No:	REV: 7
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