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October 17, 2014

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

WEEKLY TSF BREACH MONITORING REPORT – WEEK OF OCTOBER 8 – 14, 2014

Water Management

Polley Lake Dewatering	Polley Lake level elevation = 921.80 m Pumping rates from Polley Lake to Hazeltine Creek have decreased by approximately 50% because the lake level is within its natural range. Maintenance rate pumping will continue to prevent the lake level from increasing until the geotechnical review of the tailings plug is complete and an appropriate outflow structure is constructed.
Breaches	No breaches of the water management system containing water flow from the Tailings Storage Facility (TSF) occurred this week.
Water Management Structures	Work has begun establishing a road out towards the Polley Lake plug. This road will provide access for creating a new Polley Lake outflow structure. Construction of the contingency overflow sump below the Breach Sump is underway.

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	Implementation of the Lower Hazeltine Creek Sediment and Erosion Control Plan is underway. All work is being supervised by qualified environmental monitors.

Routine 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 routine water quality monitoring program from October 8 – 14, 2014. Sample Locations QUL-2 and QUL-23 were missed during this period due to poor weather conditions and time constraints.

Monitoring Program	Frequency	Area	Sample Locations
Routine Water Quality Monitoring	Daily	Quesnel River	QUR-1
		Hazeltine Creek	HAC-01a
	Weekly	Quesnel Lake	QUL-2, QUL-2a, QUL-18, QUL-21, QUL-21a, QUL-22, QUL-23, QUL-31a, QUL-40, QUL-40a, QUL-66, QUL-66a, QUL-87, QUL-119, QUL-120, QUL-zoo-8
		Hazeltine Creek	HAD-01, HAD-02, HAC-05
		Polley Lake	P1, P2, POL-5, POL-6
	2x/week	Quesnel Lake	QUL-20, QUL-79, QUL-112

Event Based Water Quality Monitoring Program

Additional event based samples are collected in response to significant physical changes in Quesnel Lake (turbidity, conductivity, colour, etc) due to weather and/or mixing events. The following table is a summary of additional samples that were collected from October 8 – 14, 2014 as part of the event based monitoring program.

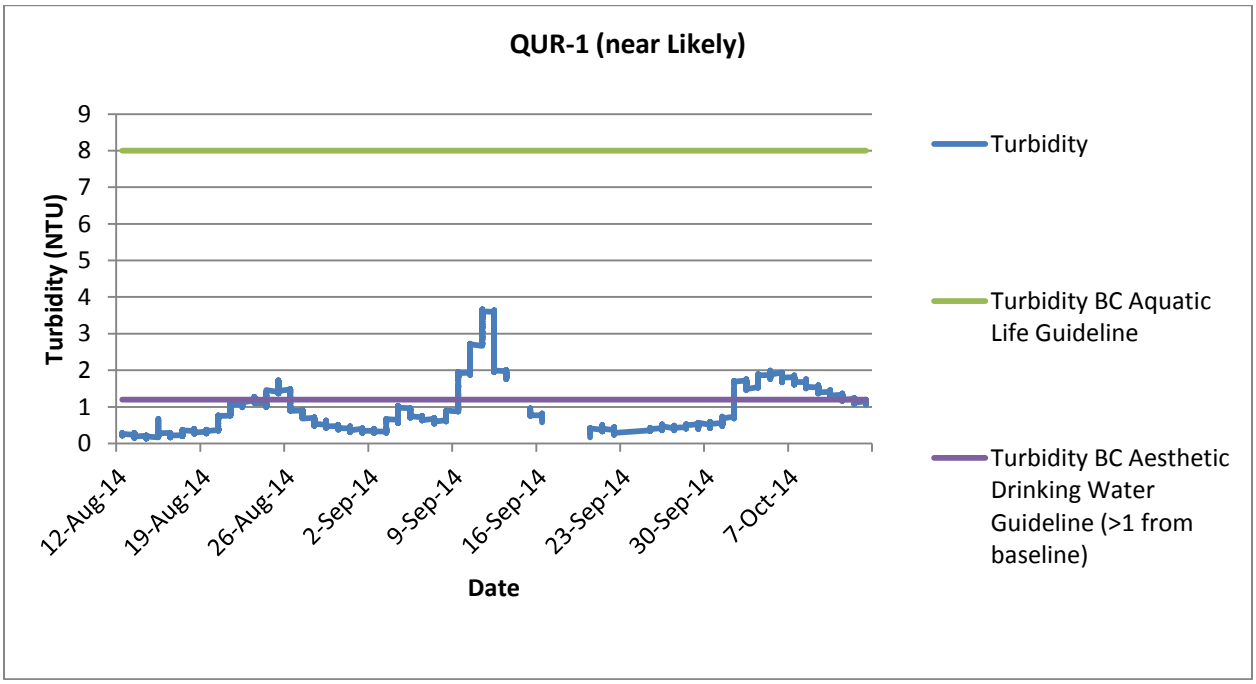
Monitoring Program	Date	Area	Rationale	Sample Locations
Event Based Water Quality Monitoring	October 8, 2014	Quesnel Lake	Additional profiles were completed between QUL-120 and QUL-112 in response to an apparent increase in turbidity at QUL-120 on October 7, 2014. Profiles were intended to delineate extent of apparent turbidity plume; however, subsequent evaluation of the data indicated that elevated turbidity readings were due to a mis-calibrated probe. Profile data have been excluded from the project data set.	QUL-132, QUL-133, QUL-134
	October 10 – 11, 2014	Quesnel Lake	Residential sampling completed in response to apparent increased turbidity at QUL-20 and QUL-22. Subsequent evaluation of the data indicated that elevated turbidity readings were due to a mis-calibrated probe.	QUL-36, QUL-81, QUL-94, QUL-94-tap, QUL-103, QUL-107, QUL-113, QUL-135-tap
	October 11 – 12, 2014	Quesnel Lake	Additional deep sampling locations (200m) monitored as reference sites.	QUL-40a, QUL-120a, QUL-136
	October 11, 2014	Quesnel Lake	Sample collected from Horsefly River to determine water quality entering Quesnel Lake.	HOR-1

Water Chemistry Results

Water chemistry results received in the last two weeks from Quesnel Lake, Polley Lake, and Hazetline Creek are attached (Tables 1a, 3a, and 4a, respectively). Summary tables showing exceedances of drinking water and protection of aquatic life guidelines have also been attached for Quesnel Lake, Polley Lake, and Hazeltine Creek in Tables 5, 6, and 7, respectively.

Turbidity data at key monitoring locations in Quesnel Lake collected during the week of October 8 – 14, 2014 are presented on plots shown on Drawing 621717-001 (attached). Data collected since late August have been presented for key locations on plots shown on Drawing 617212-002 (attached).

Turbidity results from sample location QUR-1 accessed at the Quesnel River Research Centre are summarized as a time series in the figure below.



Water Toxicity Testing Results

The following table summarizes final results for water samples submitted for lethal and sublethal toxicity testing to date. New results are shown in blue.

Sample ID	Sample Date	Test Type	LC25 (% v/v)	LC50 (% v/v)	IC25 (% v/v)	IC50 (% v/v)
QUR-1	2014 08 06	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
POL-2	2014 08 09	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
HAD-1	2014 08 13	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
HAD-1	2014 08 20	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	>100	>100
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
QUL66-40m	2014 08 21	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
		7-d C. dubia survival and reproduction	>100	>100	3.9	9.8
		7-d fathead minnow survival and growth	>100	>100	>100	>100
		72-h P. subcapitata growth inhibition	n/a	n/a	>95.2	>95.2
		7-d L. minor growth inhibition	n/a	n/a	>97	>97
QUL-66-40m-140828	2014 08 28	96-h rainbow trout LC50	>100	>100	n/a	n/a
		48-h D. magna LC50	>100	>100	n/a	n/a
POL-6-14M-140916	2014 09 16	48-h D. magna LC50	>100	>100	>100	>100

QA/QC

A flow chart has been provided as Appendix A which shows how data is being managed and processed to maintain quality control.

Important Quality Assurance/Quality Control Updates

- Challenges experienced during turbidity sensor calibration resulted in inaccurate readings on October 6 – 7, 2014. As discussed in the event based monitoring table, these turbidity readings triggered additional sampling prior to this data set being excluded.
- Given the exclusion of turbidity data from the mis-calibrated sensor, turbidity drawings 621717-001 and 621717-002 in the Monitoring Update for the Week of October 1 – 7, 2014 have been revised (attached).
- Elevated parameters in lab results for site QUL-120 at 40 metres depth on September 24, 2014 are suspected to be due to lab error. Re-analysis is in progress, and the cause of this error is under investigation.

Summary of Modifications to the Monitoring Program

General

- Floatation Agents have been added as a one-time sampling parameter to rule out presence of the following parameters as potential contaminants of concern: total xanthates; total non-anionic surfactants; glycols; extractable petroleum hydrocarbons; and volatile organic compounds. Samples were collected at POL-6, HAC-01a, HAD-01, and QUL-66.
- Chlorophyll A monitoring has been removed from the monitoring program.
- Further toxicity testing will not be completed until all outstanding results have been received and interpreted to assess if additional testing is necessary.
- To reduce shipping needs over the weekend, routine monitoring, including daily samples, will only take place six days per week; however, if an event is occurring that requires additional monitoring, event-based sampling will take place.

Polley Lake

- No changes to the monitoring program this week.

Hazeltine Creek

- No changes to the monitoring program this week, with the exception of daily sampling not being completed one day per week, as discussed in the “General” section.

Quesnel Lake

- Sampling at water intakes for residents who have requested that MPMC sample their water sources is considered complete. Outstanding samples will not be collected due to residents not being home or returning phone messages to provide permission to access their properties. Residential event based sampling will be implemented for Likely neighborhoods based on turbidity triggers at specific Quesnel Lake sampling locations.

Quesnel River

- No changes to the monitoring program this week, with the exception of daily sampling not being completed one day per week, as discussed in the “General” section.

ATTACHMENTS

Tables:

Tables 1a, 1b, 1e, 3a, 3b and 4a: Summary of Analytical Results for Quesnel Lake, Polley Lake, and Hazeltine Creek (since September 22, 2014)

Tables 6, 7, and 8: Summary of Exceedances for Quesnel Lake, Polley Lake, and Hazeltine Creek (since September 22, 2014)

Drawings:

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

621717-001: Turbidity Profiles – October 8 – 4, 2014

621717-002: Complete Turbidity Profiles - QUL-21, 66, 79, 112 & 120

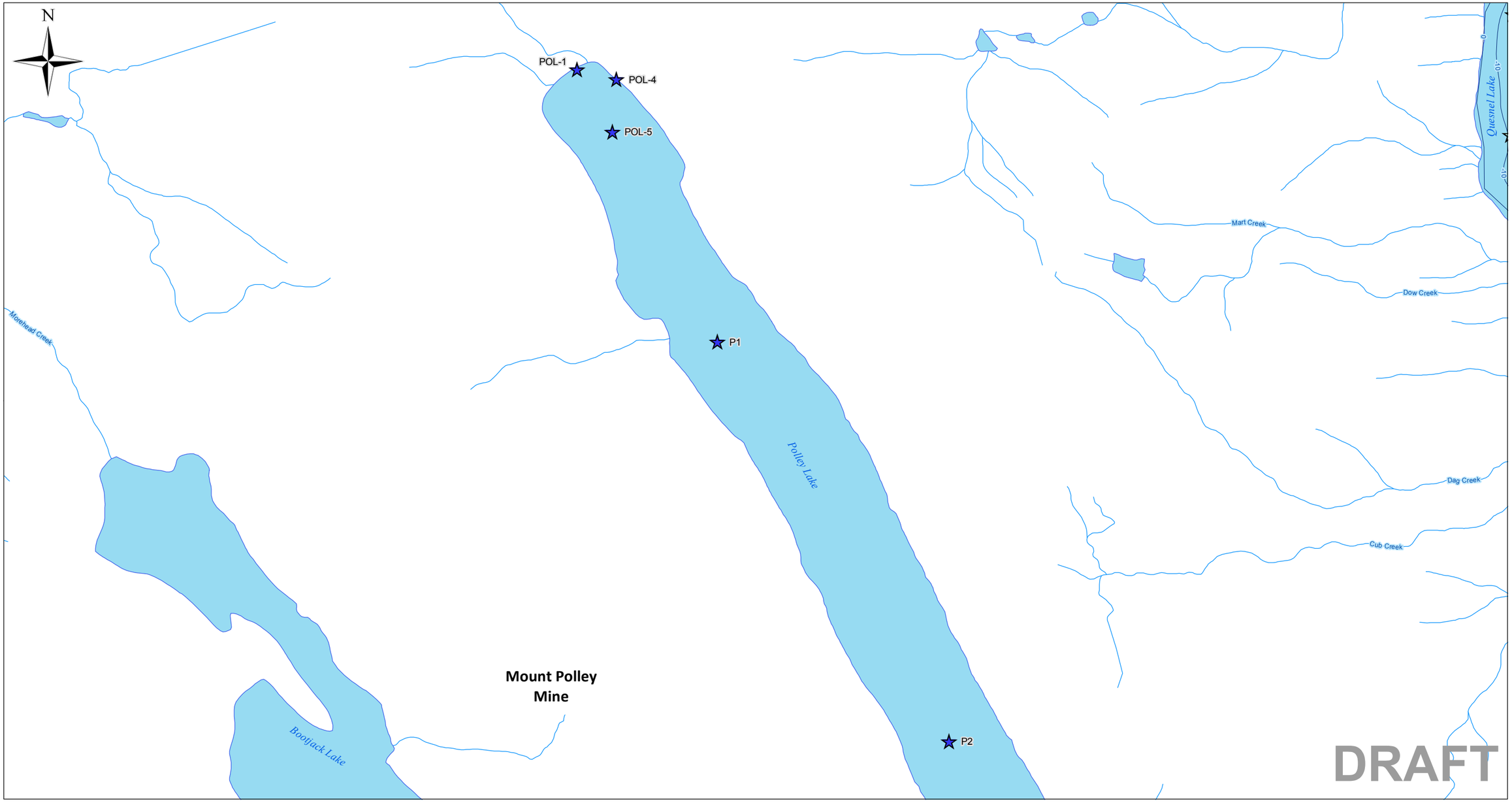
621717-001: Turbidity Profiles – October 1 to 7, 2014 for week of October 1 – 7, 2014 (REVISED)

621717-002: Complete Turbidity Profiles - QUL-21, 66, 79, 112 & 120 for week of October 1 – 7, 2014 (REVISED)

Note: if you are viewing this report on the Imperial Metals website, the revised drawings have been updated in the October 1 – 7, 2014 Weekly Update Report and are not attached.

Appendices:

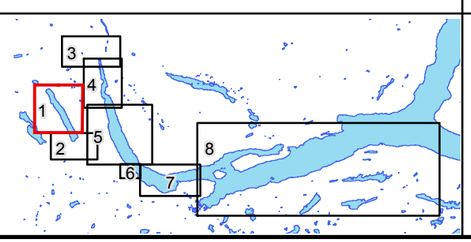
Appendix A: QA/QC Data Management Flow Chart



LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- Lakes*
- FWA Rivers
- FWA Streams



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: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia		
Figure 5: Current Monitoring Locations Page 1 of 8			
BY: CJW	SCALE: 1:24,500	DATE: 2014/10/17	REF No: 621717-005-P1 REV: 6
CHK'D: JL	PROJ COORD SYS: NAD 1983 UTM Zone 10N		

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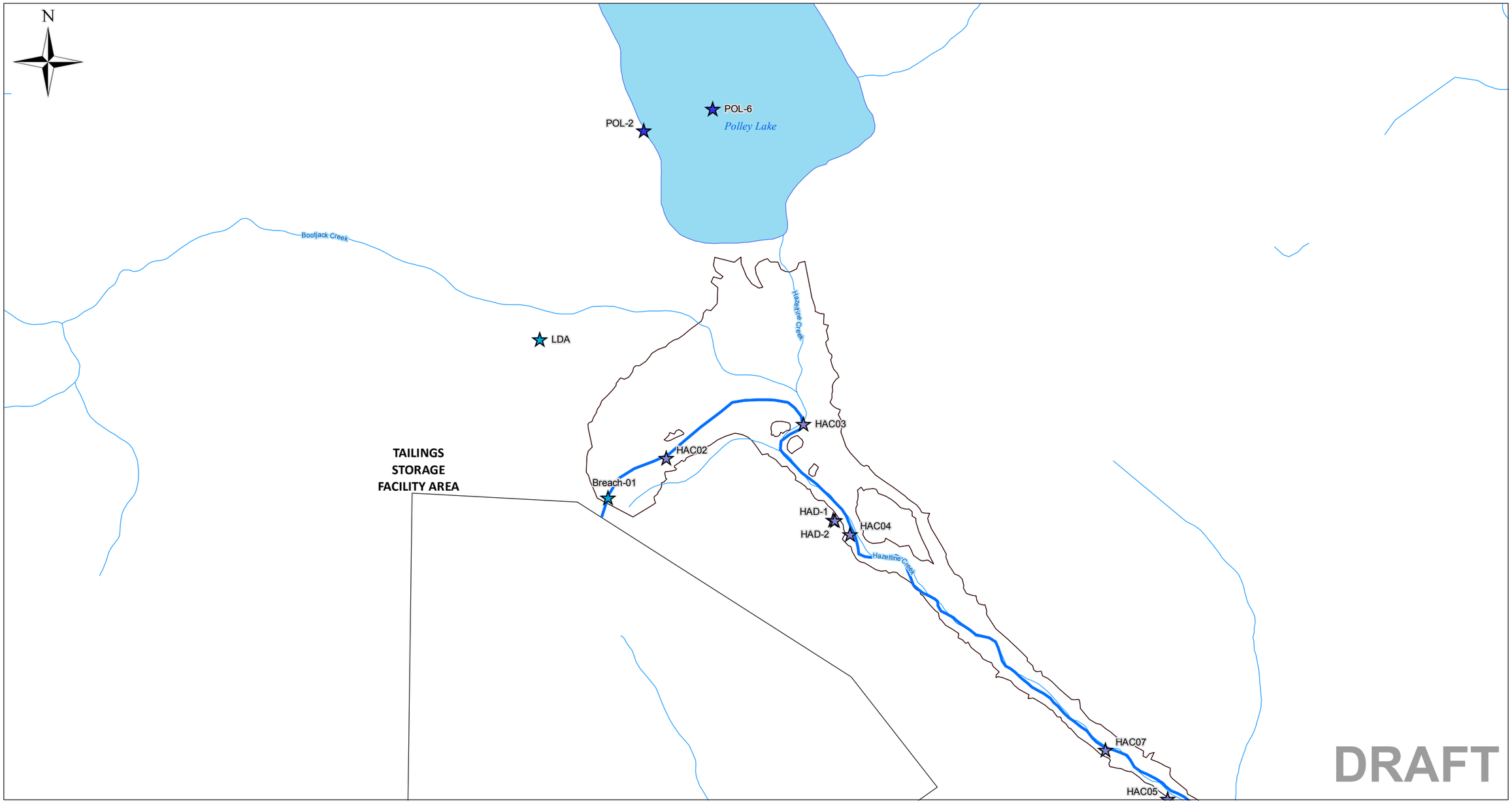
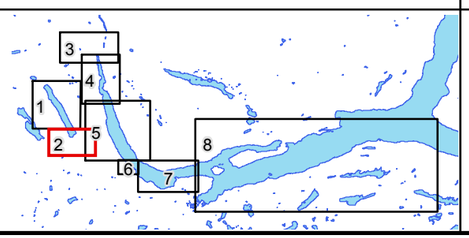


LEGEND

Surface Water Sampling Locations

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

- Lakes*
- FWA Rivers
- FWA Streams



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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

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

Figure 5: Current Monitoring Locations
Page 2 of 8

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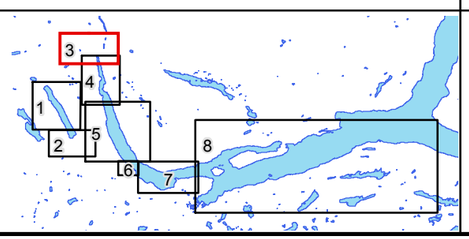
LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- Lakes*
- FWA Rivers
- FWA Streams



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REFERENCES

0 80 160 320 480 640 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 3 of 8

BY: CJW	SCALE: 1:16,200	DATE: 2014/10/17	REF No:	REV: 6
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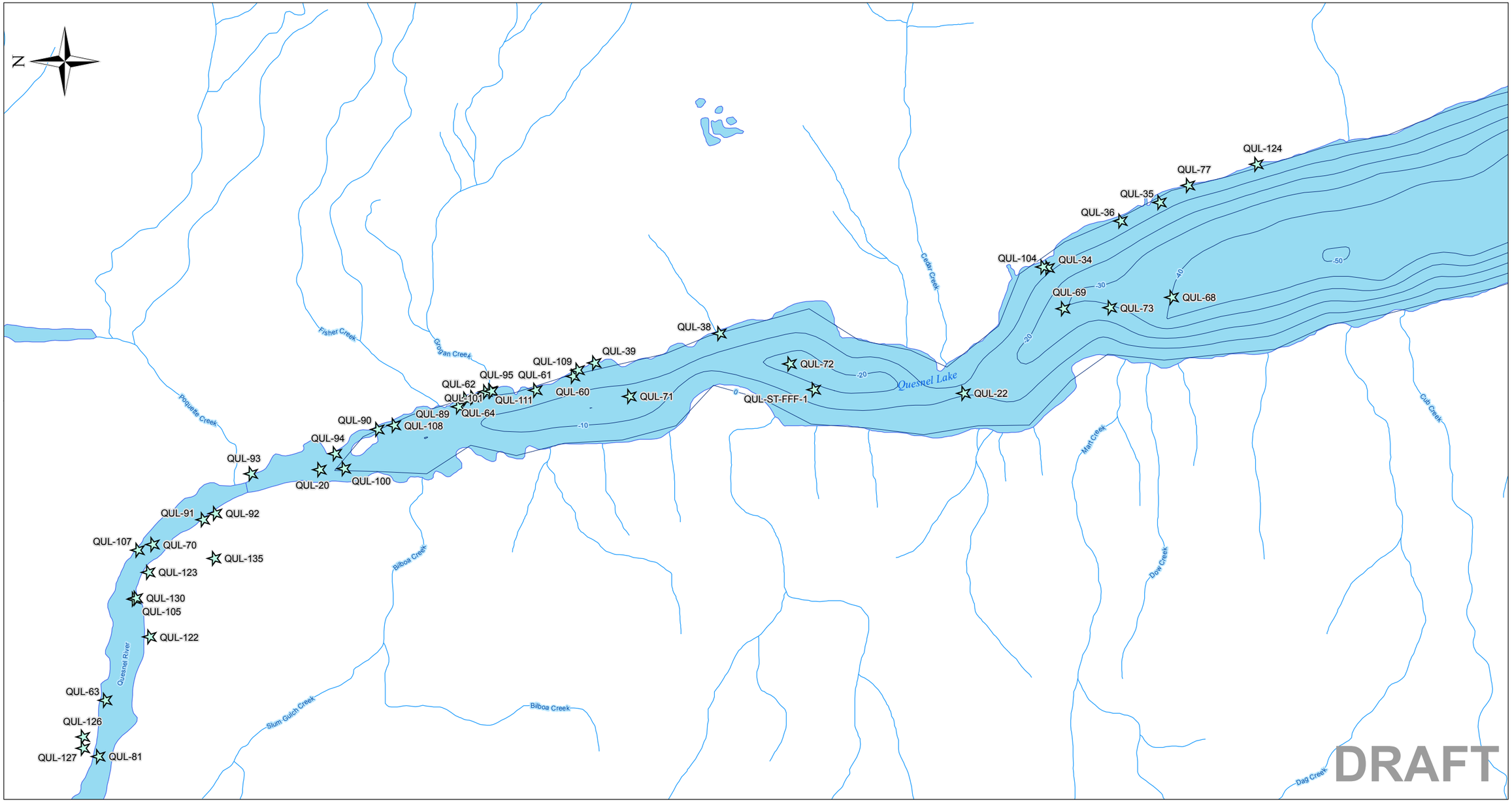
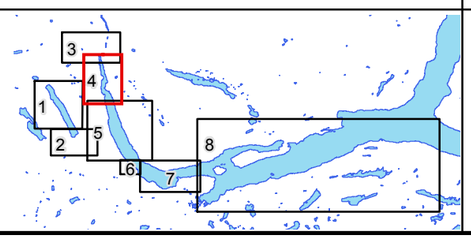


LEGEND

Surface Water Sampling Locations

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

- FWA Rivers
- FWA Streams



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REFERENCES

0 100 200 400 600 800 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 4 of 8

BY: CJW	SCALE: 1:19,800	DATE: 2014/10/17	REF No: 621717-005-P4	REV: 6
CHK'D: JL	PROJ COORD SYS: NAD 1983 UTM Zone 10N			

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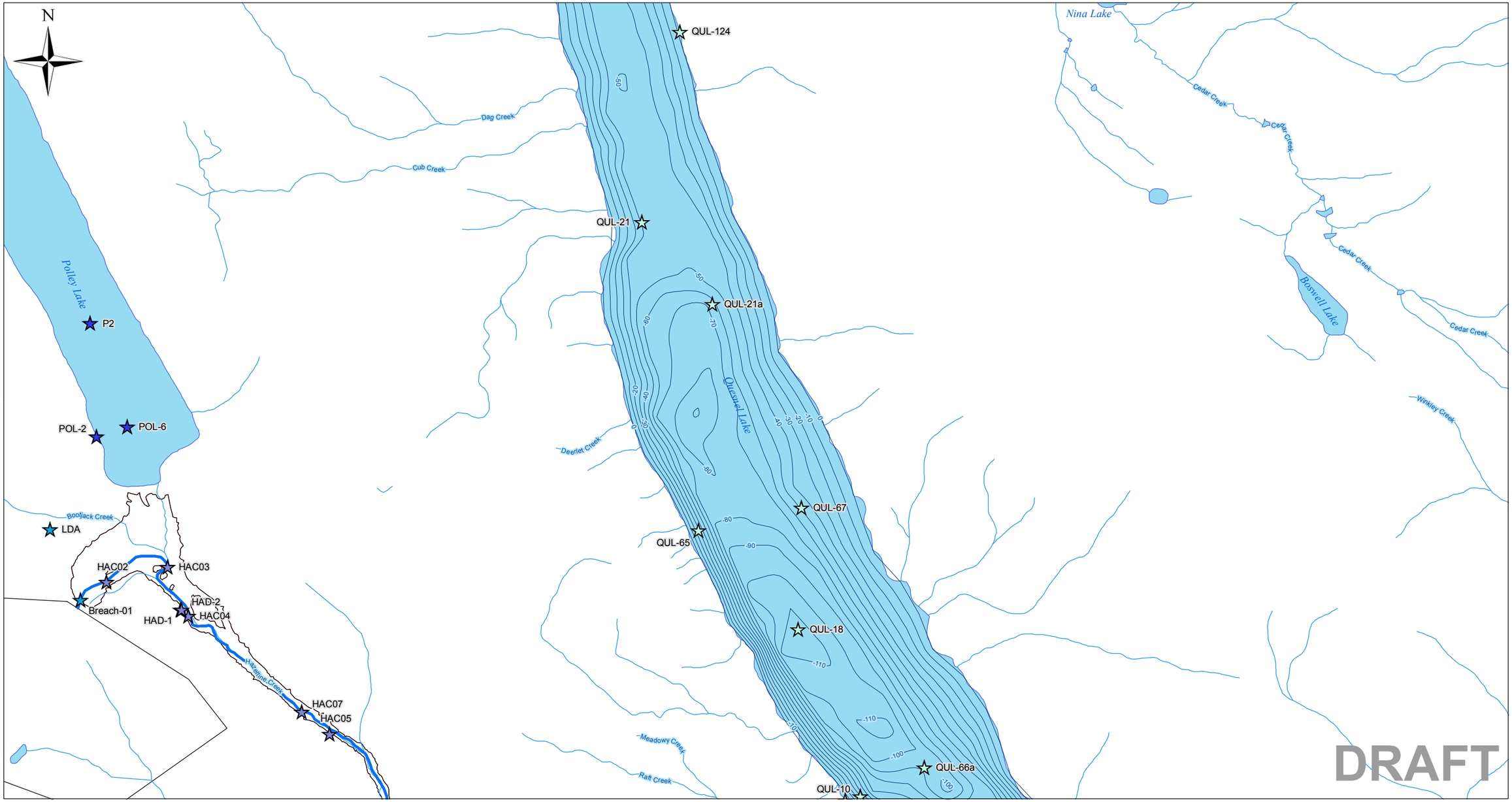

LEGEND

Surface Water Sampling Locations

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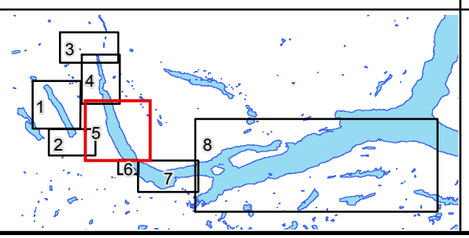
- New Hazeltine Creek Channel (Approximate)

- Lakes*
- FWA Rivers
- FWA Streams



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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

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

Figure 5: Current Monitoring Locations
Page 5 of 8

BY: CJW	SCALE: 1:31,000	DATE: 2014/10/17	REF No: 621717-005-P5	REV: 6
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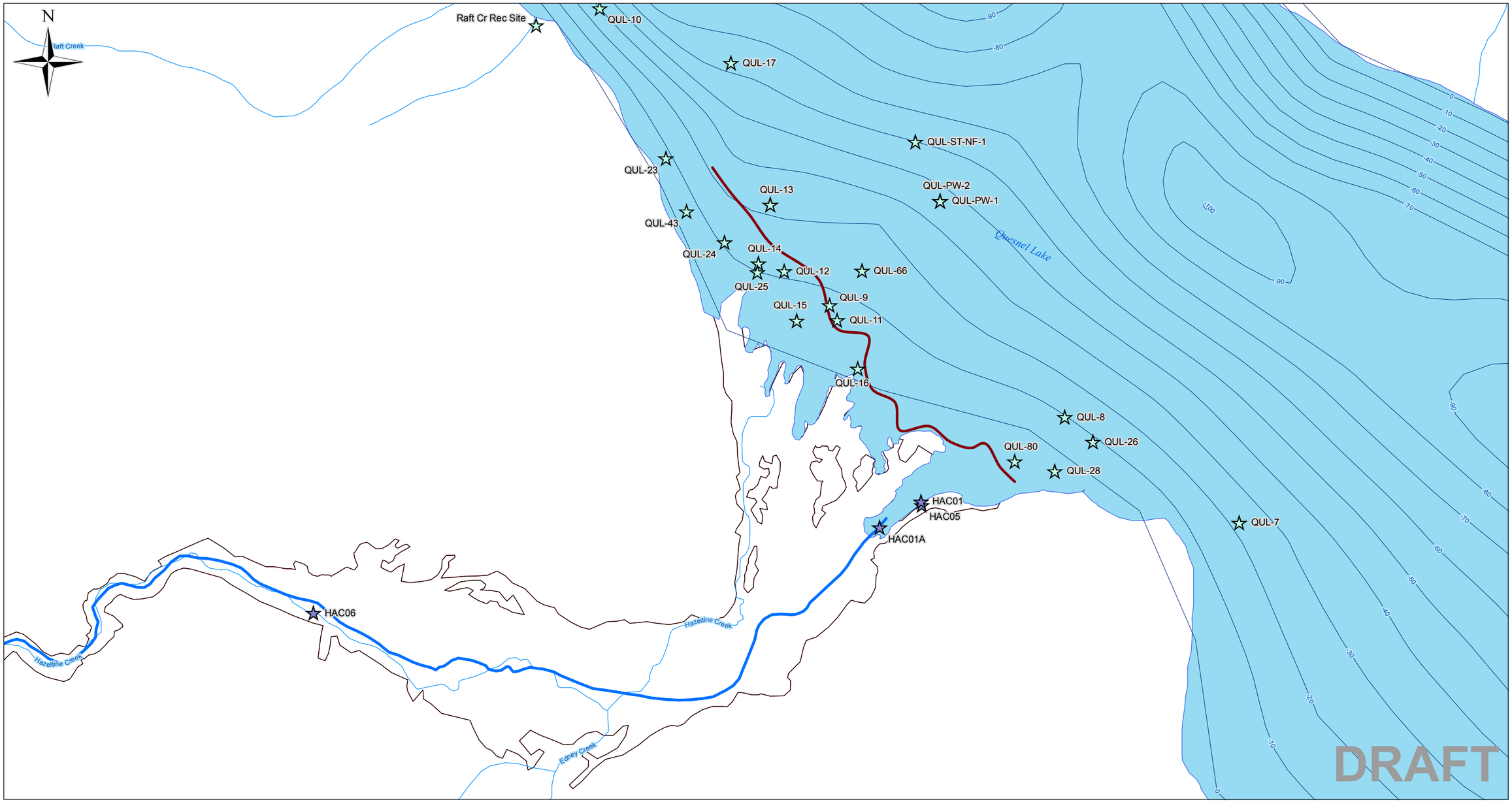
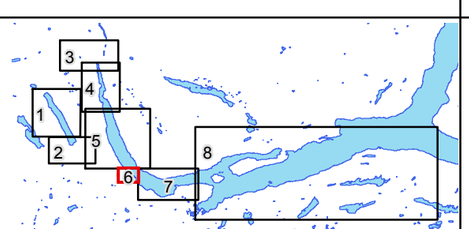


LEGEND

Surface Water Sampling Locations

- Hazeltine Creek
- Polley Lake
- Quesnel Lake
- Other Areas
- Silt Curtain/Log Boom
- New Hazeltine Creek Channel (Approximate)
- Lakes*
- FWA Rivers
- FWA Streams



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REFERENCES

0 37.5 75 150 225 300 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 6 of 8

BY: CJW	SCALE: 1:7,400	DATE: 2014/10/17	REF No: REV: 6
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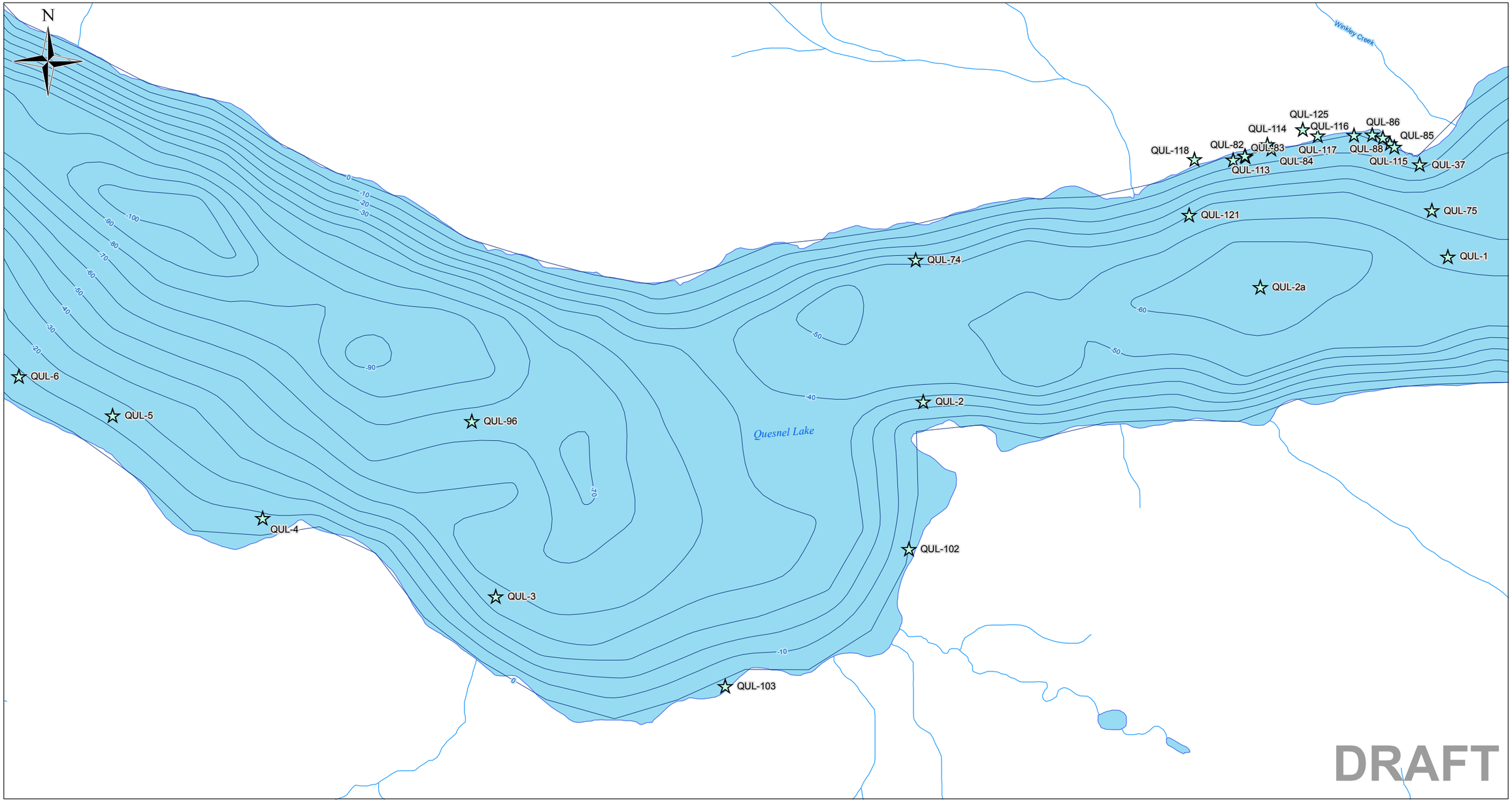

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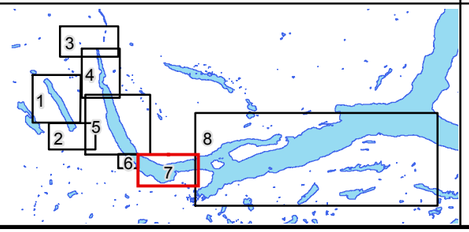

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REFERENCES

0 85 170 340 510 680 Meters

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SNC·LAVALIN

CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia		
Figure 5: Current Monitoring Locations Page 7 of 8			
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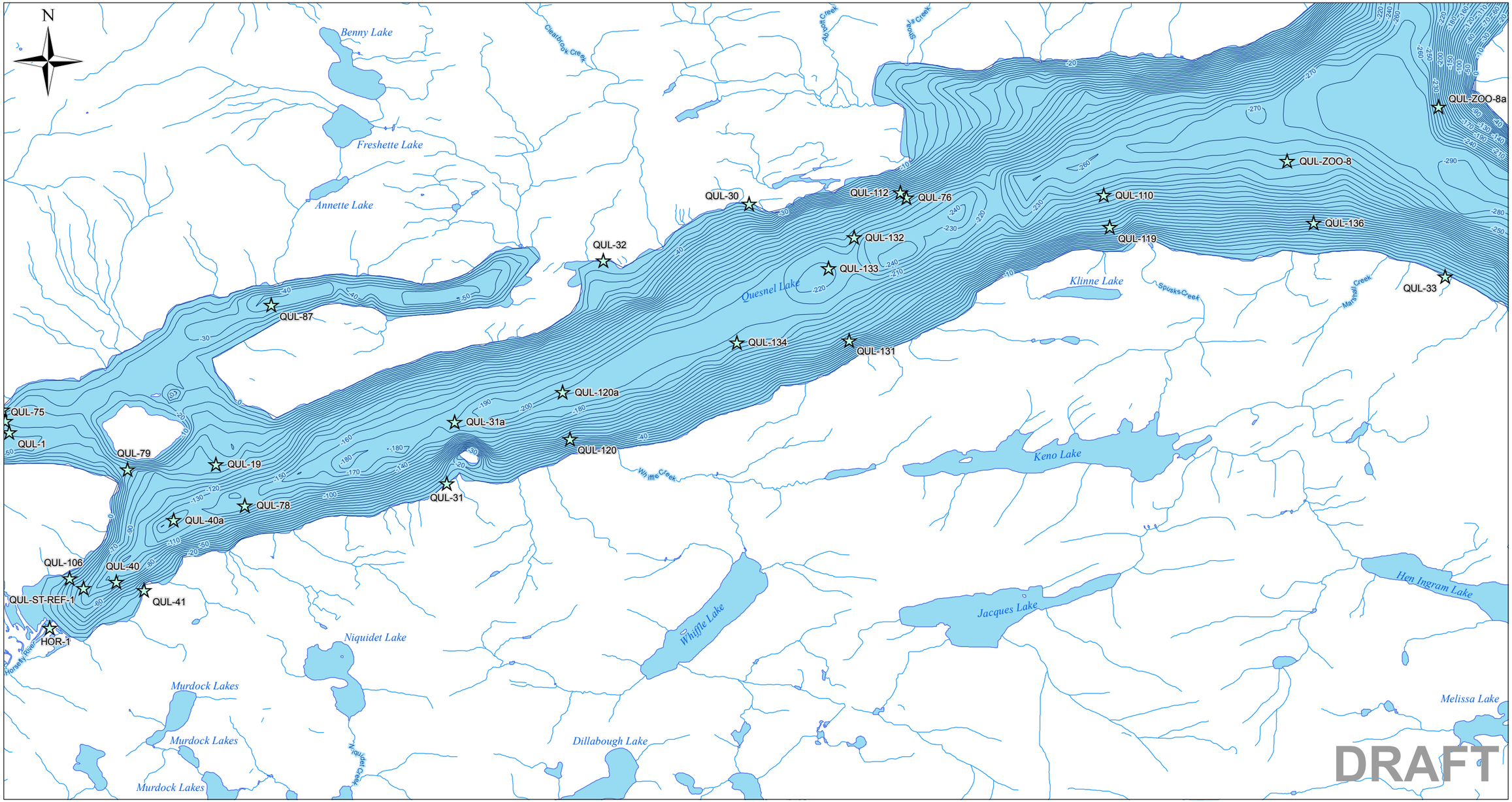

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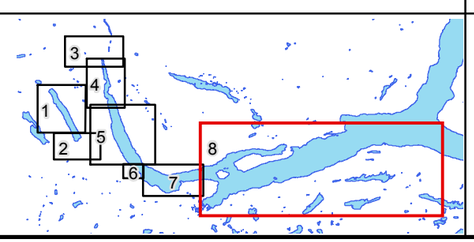
- FWA Rivers
- FWA Streams



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

0 340 680 1,360 2,040 2,720 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 8 of 8

BY: CJW	SCALE: 1:66,800	DATE: 2014/10/17	REF No:	REV: 6
CHK'D: JL	PROJ COORD SYS: NAD 1983 UTM Zone 10N		621717-005-P8	

MXD Path: P:\LOB\EIAM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\621717-005_SampleLocPlanSeries.mxd

Project Path: P:\Current Projects\Mount Polley\621717\

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																								
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[j]	n/a[j]	n/a	500	n/a	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUR-1	QUR-1	2014 09 22	52.2	7.86	8.02	14.8	0.31	103	65	< 3	1.86	-	0.132	< 5	58.6	< 1	-	< 0.5	34	6.13	49.9	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 22	52.7	-	7.96	-	0.35	103	-	< 3	-	-	-	-	61.6	< 1	-	< 0.5	36	6.13	-	-	-	-
	QUR-1-8:00	2014 09 22	50.4	-	7.98	-	0.33	103	-	< 3	-	-	-	-	60.1	< 1	-	< 0.5	36	6.13	-	-	-	-
	QUR-1	2014 09 22	49.5	-	7.92	-	0.33	105	-	-	-	-	-	-	58.5	< 1	-	< 0.5	37	6.05	-	-	-	-
	QUR-1	2014 09 23	49.8	7.88	7.9	15.15	0.32	104	66	< 3	1.71	-	0.123	< 5	56.7	< 1	-	< 0.5	36	6.07	49.4	-	< 0.001	< 0.002[a]
	QUR-1-00:00	2014 09 23	49.7	-	7.96	-	0.32	104	-	-	-	-	-	-	58.7	< 1	-	< 0.5	36	6.03	-	-	-	-
	QUR-1-08:00	2014 09 23	49.2	-	7.96	-	0.29	103	-	-	-	-	-	-	58.1	< 1	-	< 0.5	36	6.06	-	-	-	-
	QUR-1-16:00	2014 09 23	52.3	-	7.82	-	0.35	103	-	-	-	-	-	-	55.4	< 1	-	< 0.5	31	6.14	-	-	-	-
	QUR-1	2014 09 24	51.5	7.88	7.88	15.15	0.44	100	62	< 3	1.92	-	0.111	< 5	53.9	< 1	-	< 0.5	32	6.08	49.4	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 24	51	-	7.93	-	0.34	100	-	-	-	-	-	-	55.9	< 1	-	< 0.5	31	6.1	-	-	-	-
	QUR-1-8:00	2014 09 24	52.5	-	7.96	-	0.33	101	-	-	-	-	-	-	55.1	< 1	-	< 0.5	31	6.08	-	-	-	-
	QUR-1-16:00	2014 09 24	52.2	-	7.04	-	0.29	100	-	-	-	-	-	-	53.6	< 1	-	< 0.5	31	6.04	-	< 0.05	-	-
	QUR-1	2014 09 25	52	7.89	7.08	15.14	0.43	101	70	< 3	1.79	-	0.118	< 5	53.3	< 1	-	< 0.5	33	6.06	51.5	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 25	50.8	-	7.26	-	0.32	101	-	-	-	-	-	-	54.5	< 1	-	< 0.5	34	6.04	-	< 0.05	-	-
	QUR-1-8:00	2014 09 25	52.2	-	7.37	-	0.35	101	-	-	-	-	-	-	55.1	< 1	-	< 0.5	33	6.06	-	< 0.05	-	-
	QUR-1-16:00	2014 09 25	-	-	7.02	-	0.35	103	-	< 3	-	-	-	-	54.3	< 1	-	< 0.5	32	6.05	-	-	-	-
	QUR-1	2014 09 26	52.3	-	8.12	-	0.39	104	75	< 3	1.78	-	0.142	< 5	54.6	< 1	-	< 0.5	34	6.07	53.8	-	< 0.001	**0.002**
	QUR-1-0:00	2014 09 26	-	-	7.32	-	0.32	103	-	< 3	-	-	-	-	55.6	< 1	-	< 0.5	33	6.07	-	-	-	-
	QUR-1-8:00	2014 09 26	-	-	7.48	-	0.25	103	-	< 3	-	-	-	-	55.3	< 1	-	< 0.5	34	6.06	-	-	-	-
	QUR-1	2014 09 29	50.9	7.83	7.84	14.6	0.41	100	70	< 3	1.72	-	0.098	5.3	55.6	< 1	-	< 0.5	37	6.07	51.2	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 29	51	-	7.77	-	0.44	99.9	-	< 3	-	-	-	-	55.7	< 1	-	< 0.5	34	6.06	-	-	-	-
	QUR-1-16:00	2014 09 28	51.6	-	7.68	-	0.61	101	-	< 3	-	-	-	-	55.4	< 1	-	< 0.5	35	6.09	-	-	-	-
	QUR-1-8:00	2014 09 29	51.3	-	7.81	-	0.55	99.3	-	< 3	-	-	-	-	57	< 1	-	< 0.5	34	6.07	-	-	-	-
	QUR-1-16:00	2014 09 29	50.1	-	7.71	-	0.48	100	-	< 3	-	-	-	-	55	< 1	-	< 0.5	30	6.08	-	-	-	-
	QUR-1	2014 09 30	52.4	7.83	7.84	14.67	0.41	99.2	64	< 3	2	-	0.136	5.1	55.7	< 1	55.7	< 0.5	32	6.1	48.5	-	< 0.001	< 0.002[a]
	QUR-1-0:00	2014 09 30	50.6	-	7.66	-	0.37	107	-	< 3	-	-	-	-	56.3	< 1	-	< 0.5	31	6.08	-	-	-	-
	QUR-1-8:00	2014 09 30	51.5	-	7.81	-	0.55	102	-	< 3	-	-	-	-	53.9	< 1	-	< 0.5	31	6.1	-	-	-	-
	QUR-1	2014 10 02	51.8	-	7.69	-	1.17	103	62	< 3	1.87	-	0.139	5.8	63.1	< 1	-	< 0.5	34	6.11	49.2	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 03	52.7	-	7.9	-	1.28	104	71	< 3	1.97	-	0.137	< 5	72.9	< 1	-	< 0.5	35	6.25	50.1	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 04	52	-	7.9	-	1.4	104	64	< 3	1.78	-	0.134	< 5	62.8	< 1	-	< 0.5	36	6.19	50.1	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 05	52	-	7.91	-	1.51	103	67	< 3	1.88	-	0.132	< 5	72.3	< 1	-	< 0.5	36	6.24	50.6	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 06	53.3	-	7.8	-	1.57	105	64	< 3	2.15	-	0.128	< 5	60.9	< 1	-	< 0.5	36	6.36	43.7	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 07	51.9	-	7.8	-	1.46	104	66	< 3	1.91	-	0.132	< 5	60.7	< 1	-	< 0.5	36	6.31	49.6	-	< 0.001	< 0.002[a]
	QUR-1	2014 10 08	52.2	-	7.91	-	1.41	105	68	< 3	1.96	-	0.129	< 5	63.3	< 1	-	< 0.5	36	6.33	48.1	-	< 0.001	< 0.002[a]
QUL-2	QUL-2-0M	2014 09 22	48.5	8.03	7.93	14.98	0.33	101	65	< 3	1.85	-	0.125	< 5	58.5	< 1	-	< 0.5	30	6.02	48.2	-	< 0.001	< 0.002[a]
	QUL-2X-0M	2014 09 22	48.3	8.03	7.94	14.98	0.41	102	65	< 3	1.84	-	0.125	< 5	57.5	< 1	-	< 0.5	35	6.02	48.1	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	*	< 1	0	*	*	-	*	*	2	*	-	*	*	0	< 1	-	*	*
	QUL-2-25M	2014 09 22	52.7	7.68	7.9	6.08	3.47	110	69	3.4	1.82	-	0.211	6.1	144	< 1	-	< 0.5	38	7.06	50.9	-	< 0.001	< 0.002[a]
	QUL-2X-25M	2014 09 22	52.1	7.68	7.9	6.08	4.18	111	71	< 3	1.62	-	0.207	5.8	146	< 1	-	< 0.5	38	7.17	51.9	-	< 0.001	< 0.002[a]
	QA/QC RPD %		1	0	0	0	19	< 1	3	*	*	-	*	*	1	*	-	*	*	2	2	-	*	*
	QUL-2-47M	2014 09 22	62.5	7.86	7.74	6.4	57.4	148	102	7.5	1.59	-	0.319	42.3	185	2.2	-	0.54	68	16.5	60.3	-	0.0014	**0.004**
	QUL-2-0M	2014 09 30	51.8	8.33	7.04	14.6	0.83	104	66	< 3	1.93	-	0.146	< 5	56.3	< 1	-	< 0.5	35	6.1	49.8	-	< 0.001	< 0.002[a]
	QUL-2-40M	2014 09 30	65.7	7.99	7.13	6.2	48.6	146	100	21.3	1.89	-	0.296	39.7	190	6.6	-	0.52	71	15.6	61.7	-	< 0.001	**0.0032**
	QUL-2-0M	2014 10 07	50.7	8.02	7.89	-	0.73	103	68	< 3	2.05	-	0.164	< 5	61	< 1	-	< 0.5	35	6.18	50.3	-	< 0.001	< 0.002[a]
	QUL-2-40M	2014 10 07	62	7.74	7.91	-	38.6	138	97	4.8	1.9	-	0.275	33.8	178	3.4	-	< 0.5	66	13.7	59.1	-	< 0.001	**0.0026**
QUL-2a	QUL-2A-0M	2014 09 25	52	7.56	6.94	15.05	0.25	101	68	6.2	1.96	-	0.132	< 5	55.4	< 1	-	< 0.5	32	6.06	54.5	-	< 0.001	< 0.002[a]
	QUL-2A-40M	2014 09 25	58.8	7.19	7.04	5.5	13.2	121	89	8	1.92	-	0.345	14.7	157	< 1	-	< 0.5	46	9.68	58	-	< 0.001	< 0.002[a]
	QUL-2A-60M	2014 09 25	66	7.72	7.12	6.21	41.7	143	106	13	2.08	-	0.288	38.6	179	1.5	-	< 0.5	67	15.4	62.5	-	0.0019	**0.0038**
	QUL-2A-0M	2014 09 30	51.9	8.32	7.07	14.6	0.92	104	69	< 3	1.87	-	0.143	< 5	58.8	3.4	-	< 0.5	42	6.18	49.7	-	< 0.001	**0.0021**
	QUL-2A-40M	2014 09 30	56.1	7.86	7.07	5.2	11.6	118	78	5.6	1.89	-	0.242	9.6	157	2.9	-	< 0.5	47	8.58	54.2	-	< 0.001	**0.0022**
	QUL-2A-0M	2014 10 07	50.6	6.92	7.88	-	0.6	103	67	< 3	1.9	-	0.183	< 5	61.9	< 1	-	< 0.5	35	6.18	50.1	-	< 0.001	< 0.002[a]
	QUL-2A-40M	2014 10 07	58.9	7.64	7.89	-	25.1	129	86	4	1.8	-	0.23	23.1	167	1.5	-	< 0.5	61	11.3	57	-	< 0.001	**0.0021**
	QUL-2A-60M	2014 10 07	65.2	7.76	7.92	-	48.3	146	103	6.4	1.92	-	0.286	39.8	188	4.4	-	< 0.5	72	15.5	61	-	< 0.001	**0.0032**

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Dissolved Metals																											
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUR-1	QUR-1	2014 09 22	8.9	17.7	< 30	1.93	0.278	0.443	0.822	< 0.1	< 0.1	4.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.82	-	0.251	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUR-1-0:00	2014 09 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 23	9.2	17	< 30	1.81	0.29	0.435	0.821	< 0.1	0.11	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.252	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUR-1-00:00	2014 09 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-08:00	2014 09 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 24	8.6	17.5	< 30	1.92	0.237	0.443	0.8	< 0.1	< 0.1	4.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.235	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUR-1-0:00	2014 09 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 25	8.8	17.7	< 30	1.92	0.252	0.443	0.806	< 0.1	0.11	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	< 0.5	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUR-1-0:00	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 26	9	17.8	< 30	1.91	0.228	0.45	0.818	< 0.1	0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.98	-	0.248	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUR-1-0:00	2014 09 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 29	7.8	17.2	< 30	1.92	0.211	0.443	0.801	< 0.1	0.1	4.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.91	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUR-1-0:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-16:00	2014 09 29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 09 30	9.4	17	< 30	1.86	0.085	0.466	0.845	< 0.1	0.1	5.27	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	< 0.5	-	0.284	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
	QUR-1-0:00	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1-8:00	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUR-1	2014 10 02	7.7	17.6	< 30	1.89	0.384	0.473	0.909	< 0.1	0.13	5.04	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.87	< 0.05	0.57	-	0.315	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUR-1	2014 10 03	7.3	17.8	< 30	1.99	0.655	0.485	0.908	< 0.1	0.12	5.63	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.04	< 0.05	0.66	-	0.329	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUR-1	2014 10 04	7.7	17.6	< 30	1.96	0.367	0.469	0.909	< 0.1	0.12	5.63	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.76	-	0.302	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUR-1	2014 10 05	8	17.6	< 30	1.96	0.41	0.481	0.883	< 0.1	0.11	5.57	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.29	< 0.05	0.75	-	0.316	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUR-1	2014 10 06	7.7	18.1	< 30	1.99	0.29	0.455	0.854	< 0.1	0.11	5.41	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.83	-	0.304	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUR-1	2014 10 07	8	17.6	< 30	1.93	0.251	0.431	0.85	< 0.1	0.1	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.93	< 0.05	0.52	-	0.308	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.134	< 1	< 3
	QUR-1	2014 10 08	7.1	17.7	< 30	1.94	0.249	0.456	0.893	< 0.1	0.11	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.89	< 0.05	0.67	-	0.334	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3
QUL-2	QUL-2-0M	2014 09 22	8.9	16.5	< 30	1.74	0.174	0.432	0.792	< 0.1	< 0.1	4.84	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.57	-	0.252	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-2X-0M	2014 09 22	9.1	16.5	< 30	1.74	0.15	0.428	0.792	< 0.1	< 0.1	4.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.61	-	0.258	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QA/QC RPD %		*	0	*	0	*	< 1	0	*	*	< 1	*	*	*	*	*	*	*	*	-	2	*	*	*	*	*	< 1	*	*
	QUL-2-25M	2014 09 22	7.2	17.9	< 30	1.94	5.01	0.516	1.2	< 0.1	0.17	6.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.21	< 0.05	0.69	-	0.91	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.204	< 1	< 3
	QUL-2X-25M	2014 09 22	8.9	17.7	< 30	1.93	5.16	0.532	1.2	< 0.1	0.17	7.11	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.4	< 0.05	0.7	-	0.887	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.205	< 1	< 3
	QA/QC RPD %		*	1	*	< 1	3	3	0	*	*	4	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	< 1	*	*
	QUL-2-47M	2014 09 22	17.9	21.3	< 30	2.27	45.1	1.06	3.69	0.3	0.72	15.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.44	< 0.05	0.92	-	6.37	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.635	< 1	< 3
	QUL-2-0M	2014 09 30	8.2	17.6	< 30	1.92	0.167	0.448	0.825	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.73	< 0.05	1.02	-	0.298	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.159	< 1	< 3
	QUL-2-40M	2014 09 30	13.6	22.3	< 30	2.43	37.5	1.01	3.32	0.25	0.65	14.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.86	< 0.05	1.19	-	5.45	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.577	< 1	< 3
	QUL-2-0M	2014 10 07	8.1	17.3	< 30	1.85	0.27	0.461	0.837	< 0.1	< 0.1	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.54	< 0.05	0.51	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUL-2-40M	2014 10 07	15	21.1	< 30	2.25	31.9	0.929	2.83	0.2	0.52	12.6	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.08	< 0.05	0.96	-	4.27	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.468	< 1	< 3
QUL-2a	QUL-2A-0M	2014 09 25	7.9	17.6	< 30	1.97	0.136	0.435	0.754	< 0.1	< 0.1	4.67	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.54	-	0.213	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-2A-40M	2014 09 25	9.9	19.9	< 30	2.21	13	0.653	1.69	< 0.1	0.29	8.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.3	< 0.05	0.84	-	1.97	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.285	< 1	4.6
	QUL-2A-60M	2014 09 25	14.3	22.4	< 30	2.43	36.3	1.03	3.28	0.25	0.61	13.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.24	< 0.05	1.06	-	5.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.535	< 1	< 3
	QUL-2A-0M	2014 09 30	8.1	17.6	< 30	1.92	0.176	0.437	0.808	< 0.1	< 0.1	5.01	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.66	< 0.05	1	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-2A-40M	2014 09 30	6.9	19	< 30	2.11	7.28	0.583	1.43	< 0.1	0.22	7.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.45	< 0.05	1	-	1.38	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.256	< 1	< 3
	QUL-2A-0M	2014 10 07	8.5	17.2	< 30	1.84	0.198	0.459	0.83	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.6	-	0.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-2A-40M	2014 10 07	10.4	20.1	< 30	2.15	19.8	0.776	2.22	0.13	0.4	10.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.76	< 0.05	0.94	-	3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.376	< 1	< 3
	QUL-2A-60M	2014 10 07	16.4	22.2	< 30	2.37	40	1.03	3.31	0.27	0.64	14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.45	< 0.05	1.01	-	5.29	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.566	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Total Metals																														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]		1,000	n/a	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUR-1	QUR-1	2014 09 22	< 21	< 0.1	0.11	4.94	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.77	< 30	< 0.05	0.77	1,860	1.32	-	0.264	< 0.5	455	< 0.5	1,400	< 0.01	848	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUR-1-0:00	2014 09 22	15.8	< 0.1	0.12	5.17	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.7	< 30	< 0.05	0.79	1,980	1.07	-	0.28	< 0.5	473	< 0.5	1,500	< 0.01	880	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUR-1-8:00	2014 09 22	23.2	< 0.1	0.13	5.02	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.8	< 30	< 0.05	0.84	1,900	1.56	-	0.259	< 0.5	450	< 0.5	1,430	< 0.01	849	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUR-1	2014 09 22	16.8	< 0.1	0.14	5.01	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	0.65	< 30	< 0.05	0.81	1,810	1.12	-	0.31	< 0.5	442	< 0.5	1,430	< 0.01	833	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUR-1	2014 09 23	23.2	< 0.1	0.14	5.53	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.88	< 30	< 0.05	0.69	1,830	1.44	-	0.241	0.54	494	< 0.5	1,430	< 0.01	903	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUR-1-00:00	2014 09 23	22	< 0.1	0.13	4.91	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.64	< 30	< 0.05	0.76	1,810	1.26	-	0.278	< 0.5	416	< 0.5	1,420	< 0.01	796	< 0.01	0.1	< 10	0.158	< 1	< 3
	QUR-1-08:00	2014 09 23	23.9	0.13	0.14	4.9	< 0.1	< 0.5	< 10	0.014	16,700	< 0.5	< 0.1	0.75	< 30	< 0.05	0.76	1,790	1.7	-	0.303	< 0.5	438	< 0.5	1,400	< 0.01	817	< 0.01	0.11	< 10	0.167	< 1	< 3
	QUR-1-16:00	2014 09 23	16.3	< 0.1	0.13	5.14	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.59	< 30	< 0.05	0.79	1,960	0.954	-	0.28	< 0.5	459	< 0.5	1,470	< 0.01	844	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUR-1	2014 09 24	21.4	< 0.1	0.13	5.17	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.67	< 30	< 0.05	0.75	1,940	1.32	-	0.251	< 0.5	460	< 0.5	1,450	< 0.01	829	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUR-1-0:00	2014 09 24	14.4	< 0.1	0.11	5.01	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.77	< 30	< 0.05	< 0.5	1,910	0.937	-	0.277	< 0.5	432	< 0.5	1,430	< 0.01	791	< 0.01	0.12	< 10	0.157	< 1	< 3
	QUR-1-8:00	2014 09 24	16.8	< 0.1	0.13	5.2	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.64	< 30	< 0.05	0.74	1,960	1.01	-	0.276	< 0.5	465	< 0.5	1,460	< 0.01	840	< 0.01	0.11	< 10	0.164	< 1	< 3
	QUR-1-16:00	2014 09 24	15.5	< 0.1	0.13	4.83	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.66	< 30	< 0.05	< 0.5	1,940	0.961	-	0.25	< 0.5	444	< 0.5	1,420	< 0.01	828	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1	2014 09 25	23.3	< 0.1	0.12	5	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.76	< 30	< 0.05	< 0.5	1,910	1.29	-	0.279	< 0.5	456	< 0.5	1,400	< 0.01	847	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1-0:00	2014 09 25	18.4	< 0.1	0.11	4.95	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.79	< 30	< 0.05	< 0.5	1,870	1.19	-	0.255	< 0.5	450	< 0.5	1,390	< 0.01	834	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUR-1-8:00	2014 09 25	17.7	< 0.1	0.12	5	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.66	< 30	< 0.05	< 0.5	1,940	1.04	-	0.273	< 0.5	460	< 0.5	1,420	< 0.01	853	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUR-1-16:00	2014 09 25	13.6	< 0.1	0.12	5	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.83	< 30	0.057	0.63	1,920	0.969	-	0.275	< 0.5	435	< 0.5	1,440	< 0.01	791	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1	2014 09 26	23.2	< 0.1	0.13	5.23	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.73	< 30	< 0.05	0.67	1,900	1.42	-	0.273	< 0.5	447	< 0.5	1,450	< 0.01	811	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUR-1-0:00	2014 09 26	15.5	< 0.1	0.12	5.13	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.65	< 30	< 0.05	< 0.5	1,920	0.954	-	0.266	< 0.5	438	< 0.5	1,460	< 0.01	790	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUR-1-8:00	2014 09 26	28.8	< 0.1	0.13	5.19	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.77	< 30	< 0.05	< 0.5	1,930	1.82	-	0.274	< 0.5	435	< 0.5	1,470	< 0.01	793	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUR-1	2014 09 29	23.1	< 0.1	0.12	4.76	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.79	< 30	< 0.05	0.69	1,900	1.3	-	0.274	< 0.5	441	< 0.5	1,390	< 0.01	790	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUR-1-0:00	2014 09 29	17	< 0.1	0.12	4.79	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.72	< 30	< 0.05	0.72	1,900	0.962	-	0.27	< 0.5	438	< 0.5	1,400	< 0.01	806	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1-16:00	2014 09 28	31.4	< 0.1	0.14	4.97	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.8	< 30	< 0.05	0.74	1,930	1.68	-	0.279	< 0.5	450	< 0.5	1,430	< 0.01	882	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1-8:00	2014 09 29	15.5	< 0.1	0.12	4.98	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.73	< 30	< 0.05	0.73	1,910	1.03	-	0.297	< 0.5	444	< 0.5	1,410	< 0.01	800	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUR-1-16:00	2014 09 29	17.8	< 0.1	0.12	5.07	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.71	< 30	< 0.05	0.73	1,980	1.07	-	0.274	< 0.5	464	< 0.5	1,460	< 0.01	858	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUR-1	2014 09 30	22	< 0.1	0.12	5.08	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	0.8	< 30	< 0.05	0.65	1,970	1.33	-	0.271	< 0.5	458	< 0.5	1,460	< 0.01	852	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUR-1-0:00	2014 09 30	16.6	< 0.1	0.11	4.93	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.69	< 30	< 0.05	0.56	1,900	0.96	-	0.265	< 0.5	449	< 0.5	1,420	< 0.01	838	< 0.01	< 0.1	< 10	0.147	< 1	< 3
	QUR-1-8:00	2014 09 30	20.1	< 0.1	0.12	5.12	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.73	< 30	< 0.05	0.65	1,940	1.11	-	0.272	< 0.5	456	< 0.5	1,450	< 0.01	843	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1	2014 10 02	51.8	< 0.1	0.15	5.53	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.4	50	< 0.05	< 0.5	1,910	2.55	-	0.339	< 0.5	471	< 0.5	1,540	< 0.01	893	< 0.01	< 0.1	< 10	0.172	< 1	< 3
	QUR-1	2014 10 03	61.6	< 0.1	0.17	6.42	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	2.07	61	< 0.05	0.61	2,010	3.59	-	0.37	< 0.5	503	< 0.5	1,580	< 0.01	902	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUR-1	2014 10 04	63.2	< 0.1	0.15	6.35	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.68	58	< 0.05	0.96	1,980	2.97	-	0.354	< 0.5	482	< 0.5	1,530	< 0.01	959	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUR-1	2014 10 05	77.1	< 0.1	0.16	6.27	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.75	86	< 0.05	0.63	2,010	3.59	-	0.316	< 0.5	482	< 0.5	1,580	< 0.01	865	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUR-1	2014 10 06	63.8	< 0.1	0.13	6.28	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.62	69	< 0.05	0.81	1,920	3.16	-	0.323	< 0.5	459	< 0.5	1,510	< 0.01	860	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUR-1	2014 10 07	58.8	< 0.1	0.15	5.9	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.76	67	< 0.05	< 0.5	1,980	3.03	-	0.352	< 0.5	467	< 0.5	1,510	< 0.01	894	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUR-1	2014 10 08	60.1	< 0.1	0.13	6.06	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.74	61	< 0.05	0.73	1,980	2.99	-	0.374	< 0.5	460	< 0.5	1,510	< 0.01	897	< 0.01	< 0.1	< 10	0.157	< 1	< 3
QUL-2	QUL-2-0M	2014 09 22	14.9	< 0.1	0.11	4.89	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.55	< 30	< 0.05	0.69	1,790	0.808	-	0.294	< 0.5	443	< 0.5	1,390	< 0.01	835	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-2X-0M	2014 09 22	16.7	< 0.1	0.11	5.05	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.72	< 30	< 0.05	0.69	1,810	0.908	-	0.307	< 0.5	444	< 0.5	1,410	< 0.01	834	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QA/QC RPD %		*	*	*	3	*	*	*	*	< 1	*	*	*	*	*	*	1	*	-	4	*	< 1	*	1	*	< 1	*	*	*	0	*	*
	QUL-2-25M	2014 09 22	***288***	< 0.1	0.23	12.6	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	0.11	**6.7**	162	0.126	0.87	1,950	11.5	-	0.924	< 0.5	628	< 0.5	2,250	< 0.01	1,240	< 0.01	< 0.1	13	0.22	< 1	< 3
	QUL-2X-25M	2014 09 22	***307***	< 0.1	0.26	13.2	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	0.11	**6.76**	174	0.125	0.88	1,990	11.6	-	0.935	< 0.5	641	< 0.5	2,300	< 0.01	1,250	< 0.01	< 0.1	13	0.225	< 1	< 3
	QA/QC RPD %		6	*	*	5	*	*	*	*	2	*	*	*	7	*	*	2	*	-	1	*	2	*	2	*	< 1	*	*	*	2	*	*
	QUL-2-47M	2014 09 22	***3,000***	0.32	1.5	87.6	< 0.1	< 0.5	< 10	0.016	22,100	**1.28**	0.95	**59.7**	***1,450***	1.08	2.09	2,880	***90.1***	-	6.56	1.23	2,410	< 0.5	8,260	0.019	4,180	0.011	< 0.1	106	0.713	5.3	5.1
	QUL-2-0M	2014 09 30	45.1	< 0.1	0.13	5.35	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.29	43	< 0.05	0.9	1,920	1.81	-	0.423	< 0.5	453	< 0.5	1,470	< 0.01	827	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-2-40M	2014 09 30	***3,000***	0.3	1.29	89.3	< 0.1	< 0.5	< 10	0.018	23,500	**1.23**	0.79	**51.2**	***1,180***	0.983	2.05	3,040	***76.5***	-	5.86	1.18	2,630	< 0.5	10,400	0.018	3,940	0.014	0.11	100	0.656	4.7	5.1
	QUL-2-0M	2014 10 07	19.2	< 0.1	< 0.1	5.05	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.85	< 30	< 0.05	< 0.5	1,810	1.21	-	0.304	< 0.5	438	< 0.5	1,370	< 0.01	799	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-2-40M	2014 10 07	***1,880***	0.21	0.93	58.4	< 0.1	< 0.5	< 10	0.012	20,400	0.75	0.5	**35**	***736***	0.602	1.34	2,460	***59.3***	-	4.47	0.94	1,840	< 0.5	6,220	< 0.01	3,020	< 0.01	< 0.1	63	0.507	3.1	4.1
QUL-2a	QUL-2A-0M	2014 09 25	18	< 0.1	< 0.1	4.88	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.57	< 30	< 0.05	< 0.5	1,880	0.934	-	0.24	< 0.5	433	< 0.5	1,400	< 0.01	773	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-2A-40M	2014 09 25	***1,250***	0.14	0.59	35.8	< 0.1	< 0.5	< 10	< 0.01	20,600	0.61	0.38	**21.1**	***551***	0.369	1.06	2,480	33.5	-	2.3	0.73	1,310	< 0.5	4,880	< 0.01	2,070	< 0.01	< 0.1	44	0.34	2.1	< 3
	QUL-2A-60M	2014 09 25	***3,150***	0.32	1.39	88.2	< 0.1	< 0.5	11	0.017	23,000	**1.28**	0.93	**58.3**	***1,350***	0.994	1.87	3,060	***82.8***	-	5.76	1.32	2,620	< 0.5	9,030	0.021	4,000	0.017	< 0.1	112	0.66	5.2	5.3
	QUL-2A-0M	2014 09 30	45.7	< 0.1	0.13	5.22	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.29	45	< 0.05	0.73	1,910	1.9	-	0.298	< 0.5	451	< 0.5	1,470	< 0.01	826	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QUL-2A-40M	2014 09 30	***643***	< 0.1	0.38	22.4	< 0.1	< 0.5	< 10	< 0.01	19,500	< 0.5	0.19	**12.3**	271	0.216	1.13	2,270	17.9	-	1.5	0.53	910	< 0.5	3,440	< 0.01	1,560	< 0.01	< 0.1	26	0.279	1.2	< 3
	QUL-2A-0M	2014 10 07	21.8	< 0.1	0.11	5.08	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.8	< 30	< 0.05	< 0.5	1,770	1.28	-	0.283	< 0.5	444	< 0.5	1,340	< 0.01	792	< 0.01	< 0.1	< 10	0.15	< 1	< 3
	QUL-2A-40M	2014 10 07	***1,110***	0.14	0.65	37.9	< 0.1	< 0.5	< 10	< 0.01	19,100	< 0.5	0.3	**22.8**	***445***	0.405	1.06	2,220	37.1	-	3.08	0.64	1,290	< 0.5	4,290	< 0.01	2,330	< 0.01	< 0.1	38	0.405	2	< 3
	QUL-2A-60M	2014 10 07	***2,190***	0.27	1.2	68.7	< 0.1	< 0.5	< 10	0.015	22,000	0.83	0.61	**44.5**	***911***	0.755	1.58	2,690	***73.1***	-	5.61	0.97	2,100	< 0.5	7,050	0.014	3,660	< 0.01	< 0.1	78	0.619	3.8	3.6

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																								
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[i]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[i]	n/a[i]	n/a	500	n/a	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-18	QUL-18	2014 09 22	47.8	8.03	7.79	15.23	0.51	101	62	< 3	1.49	-	0.131	< 5	55.2	< 1	-	< 0.5	33	6.02	46.9	-	< 0.001	< 0.002[a]
	QUL-18	2014 09 23	51.5	7.55	7.95	15.04	0.45	101	62	< 3	1.94	-	0.131	< 5	54.6	< 1	-	< 0.5	32	6.05	50.1	-	< 0.001	< 0.002[a]
	QUL-18-0M	2014 09 25	51.7	8.08	7.05	15	0.66	101	68	< 3	2.03	-	0.135	< 5	55.9	< 1	-	< 0.5	32	6.09	53.5	-	< 0.001	< 0.002[a]
	QUL-18-40M	2014 09 25	63.7	7.7	7.1	6.35	30.5	140	106	10.7	2.41	-	0.273	31.5	178	1.2	-	< 0.5	63	14.4	61.6	-	< 0.001	**0.0029**
	QUL-18-100M	2014 09 25	71.8	7.88	7.16	6.66	55.8	162	127	27.6	2.42	-	0.37	59.7	202	4.5	-	0.65	83	20	71.2	-	0.0031	**0.0048**
	QUL-18-0M	2014 10 01	48.5	7.92	7.67	14.3	0.63	100	68	5.4	1.91	-	0.122	< 5	55	< 1	-	< 0.5	35	6	48.6	-	< 0.001	< 0.002[a]
	QUL-18-40M	2014 10 01	66.2	7.72	7.72	6.4	50.1	145	100	5.1	2.21	-	0.308	43.5	187	2	-	0.73	79	16	60.2	-	< 0.001	**0.0027**
	QUL-18-80M	2014 10 01	69.4	7.78	7.61	6.5	64.1	151	111	6.6	2	-	0.356	57.7	213	4	-	0.63	84	18	61.4	-	0.0026	**0.004**
QUL-20	QUL-20	2014 09 22	49	8.02	7.89	15.13	0.29	101	61	< 3	1.67	-	0.139	< 5	54.9	< 1	-	< 0.5	33	5.98	47.8	-	< 0.001	< 0.002[a]
	QUL-20	2014 09 23	51.3	8	7.94	15.2	0.43	101	68	< 3	1.94	-	0.123	< 5	55.3	< 1	-	< 0.5	31	6.05	55.7	-	< 0.001	< 0.002[a]
	QUL-20	2014 09 26	51.4	8	7.69	14.99	0.46	99.5	67	< 3	1.9	-	0.098	< 5	54.2	< 1	-	< 0.5	34	6.06	49.2	-	< 0.001	< 0.002[a]
	QUL-20	2014 09 29	50.9	8.06	7.74	14.65	0.57	100	61	< 3	1.6	-	0.124	< 5	53.2	< 1	-	< 0.5	32	6.08	50.6	-	< 0.001	< 0.002[a]
	QUL-20	2014 10 03	51.9	7.84	7.89	12.3	1.45	103	65	< 3	1.78	-	0.135	< 5	61.4	< 1	-	< 0.5	35	6.26	49.9	-	< 0.001	< 0.002[a]
	QUL-20-0M	2014 10 07	50.7	7.99	7.73	-	1.58	104	68	< 3	2.11	-	0.132	< 5	61.3	< 1	-	< 0.5	36	6.3	49	-	< 0.001	< 0.002[a]
QUL-21	QUL-21-0M	2014 09 23	51.4	7.81	7.95	15.33	0.48	101	65	< 3	1.9	-	0.114	< 5	52.5	< 1	-	< 0.5	31	6.04	48.9	-	< 0.001	< 0.002[a]
	QUL-21X-0M	2014 09 23	50.7	7.81	7.94	15.33	0.4	101	62	< 3	1.97	-	0.117	< 5	52.7	< 1	-	< 0.5	31	6.05	49.7	-	0.0015	< 0.002[a]
	QA/QC RPD %		1	0	< 1	0	*	0	5	*	*	-	*	*	< 1	*	-	*	*	< 1	2	-	*	*
	QUL-21-20M	2014 09 23	51.8	7.64	7.91	8.9	0.79	104	67	< 3	2.08	-	0.167	5.2	102	< 1	-	< 0.5	34	6.18	50.7	-	0.0017	< 0.002[a]
	QUL-21-47M	2014 09 23	66.7	7.54	8	6.37	54.7	147	103	8.2	1.96	-	0.31	44.8	188	2.1	-	0.52	68	16.1	61.7	-	0.0025	**0.004**
	QUL-21-0M	2014 09 29	51.5	8.16	7.74	14.67	0.43	101	63	< 3	1.5	-	0.128	< 5	53.9	< 1	-	< 0.5	32	6.09	50.8	-	< 0.001	< 0.002[a]
	QUL-21-40M	2014 09 29	63.7	7.65	7.76	6.2	38.3	133	94	5	1.71	-	0.285	35.6	179	1.5	-	< 0.5	62	14.4	59.7	-	< 0.001	**0.0021**
	QUL-21X-40M	2014 09 29	62.6	7.65	7.76	6.2	35.7	134	94	6.6	1.6	-	0.284	35.6	179	1.5	-	< 0.5	61	14.3	59.7	-	< 0.001	**0.0021**
	QA/QC RPD %		2	0	0	0	7	< 1	0	*	*	-	< 1	0	0	*	-	*	*	< 1	0	-	*	*
	QUL-21-45M	2014 09 29	64.4	7.77	7.77	6.38	41.1	141	96	3.6	1.68	-	0.315	39.2	184	2.2	-	< 0.5	65	15.3	61.5	-	< 0.001	**0.0021**
	QUL-21-0M	2014 10 04	51.7	8.28	7.87	13	1.83	102	70	< 3	2.05	-	0.13	< 5	60.9	< 1	-	< 0.5	35	6.24	49.7	-	< 0.001	< 0.002[a]
	QUL-21-40M	2014 10 04	60.5	7.91	7.87	6	33.4	130	88	6.3	2.09	-	0.262	26.4	177	1.5	-	< 0.5	65	12.4	57.5	-	< 0.001	< 0.002[a]
QUL-21a	QUL-21A-0M	2014 09 25	51.9	8.03	7.06	15	0.63	101	64	6.8	2.01	-	0.136	< 5	54.6	< 1	-	< 0.5	32	6.08	51.3	-	< 0.001	< 0.002[a]
	QUL-21A-40M	2014 09 25	64.6	7.68	7.12	6.33	32.8	141	101	12.6	2.44	-	0.311	37.1	177	1.2	-	< 0.5	66	15	62.4	-	0.0012	**0.0024**
	QUL-21AX-40M	2014 09 25	64.9	7.68	7.13	6.33	33.7	142	102	10.7	2.34	-	0.298	37.5	179	1.3	-	< 0.5	67	15.4	64.1	-	0.0012	**0.0024**
	QA/QC RPD %		< 1	0	< 1	0	3	< 1	< 1	*	*	-	4	1	1	*	-	*	*	3	3	-	*	*
	QUL-21A-65M	2014 09 25	69.1	7.89	7.13	6.6	46.3	153	108	8.4	2.39	-	0.325	49.5	195	2.7	-	0.56	74	17.7	64.6	-	0.0028	**0.0038**
	QUL-21A-0M	2014 09 27	51.4	8.05	7.67	15.33	0.68	101	65	< 3	1.92	-	0.094	< 5	55.3	< 1	-	< 0.5	34	6.09	49.9	-	< 0.001	< 0.002[a]
	QUL-21A-40M	2014 09 27	67.6	7.75	7.75	6.46	53.4	145	101	6.8	2.05	-	0.274	43.3	185	1.4	-	0.51	68	16	60.8	-	0.0012	**0.0022**
	QUL-21A-60M	2014 09 27	69.7	7.8	7.77	6.56	66.6	154	99	8.5	2.05	-	0.289	55.9	201	2.8	-	0.59	82	17.9	62.9	-	0.0029	**0.0038**
	QUL-21AX-60M	2014 09 27	69.5	7.8	7.79	6.56	65.9	158	105	5.5	1.95	-	0.283	55.6	202	2.9	-	0.58	73	17.8	62.9	-	0.0023	**0.0037**
	QA/QC RPD %		< 1	0	< 1	0	1	3	6	*	*	-	2	< 1	< 1	*	-	*	*	< 1	0	-	*	*
	QUL-21A-0M	2014 10 04	51.7	8.21	7.87	13	1.86	102	66	< 3	1.87	-	0.141	< 5	61.1	< 1	-	< 0.5	36	6.25	50	-	< 0.001	< 0.002[a]
	QUL-21A-40M	2014 10 04	57.2	7.95	7.88	5.7	20.1	121	83	< 3	2.02	-	0.224	15.1	162	< 1	-	< 0.5	47	9.9	55.2	-	< 0.001	< 0.002[a]
	QUL-21A-55M	2014 10 04	64.5	8.03	7.93	6.3	46.9	143	101	3.8	1.95	-	0.287	37.5	184	1.6	-	0.66	73	14.6	58.9	-	< 0.001	**0.0021**
	QUL-21AX-55M	2014 10 04	64.9	8.03	7.92	6.3	46.1	140	90	3.9	2.11	-	0.283	37.1	184	1.7	-	0.69	73	14.6	59.6	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	2	2	12	*	*	-	1	1	0	*	-	*	*	0	1	-	*	*
QUL-22	QUL-22-0M	2014 09 23	50.7	7.98	7.97	15.44	0.31	102	64	< 3	1.8	-	0.157	< 5	52.9	< 1	-	< 0.5	32	6.04	50.2	-	0.0011	< 0.002[a]
	QUL-22-5M	2014 09 23	50.6	7.97	7.96	15.1	0.38	102	64	< 3	1.98	-	0.134	< 5	53.2	< 1	-	< 0.5	32	6.05	49.4	-	0.0012	< 0.002[a]
	QUL-22-9M	2014 09 23	50.9	7.96	7.83	14.93	0.41	101	62	< 3	1.93	-	0.133	< 5	53.8	< 1	-	< 0.5	32	6.04	48.4	-	0.0014	< 0.002[a]
	QUL-22-0M	2014 09 26	51.4	7.99	7.68	15.04	0.56	99.7	64	< 3	1.86	-	0.098	< 5	54.9	< 1	-	< 0.5	35	6.06	49	-	< 0.001	< 0.002[a]
	QUL-22X-0M	2014 09 26	51.1	7.99	7.68	15.04	0.42	99.6	67	< 3	1.86	-	0.093	< 5	54.2	< 1	-	< 0.5	34	6.06	49	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	0	0	*	< 1	5	*	*	-	*	*	1	*	-	*	*	0	0	-	*	*
	QUL-22	2014 10 04	52.7	8.21	7.92	13.3	1.77	104	71	< 3	1.95	-	0.124	< 5	59.9	< 1	-	< 0.5	36	6.26	49.7	-	< 0.001	< 0.002[a]

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Dissolved Metals																											
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-18	QUL-18	2014 09 22	9	16.3	< 30	1.73	0.294	0.431	0.783	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.62	-	0.25	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-18	2014 09 23	8.6	17.5	< 30	1.89	0.192	0.451	0.789	< 0.1	< 0.1	4.74	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	1.05	-	0.243	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-18-0M	2014 09 25	8.3	17.6	< 30	1.9	0.357	0.439	0.773	< 0.1	< 0.1	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.63	< 0.05	0.76	-	0.257	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3
	QUL-18-40M	2014 09 25	12.8	21.6	< 30	2.37	31.8	0.864	2.7	0.19	0.51	12.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.82	< 0.05	0.97	-	4.21	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.464	< 1	< 3
	QUL-18-100M	2014 09 25	21	24.4	< 30	2.63	62.2	1.21	4.19	0.34	0.87	17.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.88	< 0.05	1.15	-	7.5	< 0.5	0.54	< 0.01	< 0.01	< 10	0.726	1.1	< 3
	QUL-18-0M	2014 10 01	8.7	16.5	< 30	1.79	0.06	0.453	0.85	< 0.1	0.1	4.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	0.71	-	0.292	< 0.5	< 0.5	< 0.01	0.014	< 10	0.161	< 1	< 3
	QUL-18-40M	2014 10 01	40.6	22.5	< 30	2.44	44.9	1.11	3.67	0.25	0.67	15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.54	< 0.05	0.93	-	5.98	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.625	< 1	< 3
	QUL-18-80M	2014 10 01	**77**	23.6	< 30	2.55	66	1.2	4.03	0.27	0.86	18.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.77	< 0.05	0.84	-	6.19	< 0.5	0.52	< 0.01	< 0.01	< 10	0.667	1.1	< 3
QUL-20	QUL-20	2014 09 22	8	16.7	< 30	1.78	0.192	0.429	0.805	< 0.1	< 0.1	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.5	-	0.228	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.136	< 1	< 3
	QUL-20	2014 09 23	8.6	17.4	< 30	1.9	0.264	0.451	0.844	< 0.1	< 0.1	4.91	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.76	-	0.239	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-20	2014 09 26	9.5	17.5	< 30	1.9	0.189	0.443	0.794	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.79	-	0.235	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3
	QUL-20	2014 09 29	8.2	17.3	< 30	1.89	0.137	0.448	0.811	< 0.1	0.12	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.83	-	0.24	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-20	2014 10 03	7.9	17.6	< 30	1.94	0.592	0.505	0.931	< 0.1	0.12	5.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.09	< 0.05	0.72	-	0.34	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-20-0M	2014 10 07	7.5	17.3	< 30	1.85	0.238	0.459	0.84	< 0.1	0.11	5.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.74	-	0.296	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
QUL-21	QUL-21-0M	2014 09 23	8.6	17.4	< 30	1.93	0.169	0.457	0.799	< 0.1	< 0.1	4.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	1.02	-	0.246	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-21X-0M	2014 09 23	8.6	17.2	< 30	1.89	0.213	0.456	0.795	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	1.03	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QA/QC RPD %		*	1	*	2	*	< 1	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	2	*	*
	QUL-21-20M	2014 09 23	7.6	17.5	< 30	1.98	0.205	0.484	0.888	< 0.1	0.11	5.58	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.52	< 0.05	0.98	-	0.338	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-21-47M	2014 09 23	16.4	22.6	< 30	2.5	45.4	1.05	3.44	0.29	0.68	14.9	< 0.1	< 10	0.011	< 0.5	< 0.1	6.76	< 0.05	1.34	-	5.8	< 0.5	0.55	< 0.01	< 0.01	< 10	0.6	< 1	< 3
	QUL-21-0M	2014 09 29	8.3	17.5	< 30	1.91	0.093	0.418	0.766	< 0.1	< 0.1	4.58	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.86	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-21-40M	2014 09 29	12.3	21.6	< 30	2.39	31.4	0.913	2.9	0.19	0.54	13.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.4	< 0.05	1.19	-	4.42	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.488	< 1	< 3
	QUL-21X-40M	2014 09 29	12.6	21.2	< 30	2.35	30.9	0.89	2.82	0.18	0.55	12.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.25	< 0.05	1.14	-	4.16	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.477	< 1	< 3
	QA/QC RPD %		*	2	*	2	2	3	3	*	2	4	*	*	*	*	*	3	*	*	-	6	*	*	*	*	*	2	*	*
	QUL-21-45M	2014 09 29	14.1	21.8	< 30	2.41	37.1	0.978	3.21	0.22	0.63	14.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.95	< 0.05	1.14	-	4.99	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.53	< 1	< 3
	QUL-21-0M	2014 10 04	9	17.5	< 30	1.94	0.51	0.467	0.894	< 0.1	0.11	5.64	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.2	< 0.05	0.91	-	0.311	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-21-40M	2014 10 04	11.2	20.5	< 30	2.28	23.5	0.797	2.48	0.16	0.43	11.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	4.39	< 0.05	1.12	-	3.51	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.402	< 1	< 3
QUL-21a	QUL-21A-0M	2014 09 25	8.3	17.6	< 30	1.93	0.221	0.43	0.766	< 0.1	< 0.1	4.79	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.76	-	0.253	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-21A-40M	2014 09 25	13.9	21.9	< 30	2.4	36.2	0.919	3.02	0.23	0.56	13.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.38	< 0.05	1	-	4.73	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.506	< 1	< 3
	QUL-21AX-40M	2014 09 25	13	22	< 30	2.41	34.8	0.902	2.95	0.22	0.55	13.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.31	< 0.05	1.1	-	4.66	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.499	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	4	2	2	*	2	3	*	*	*	*	*	1	*	*	-	2	*	*	*	*	*	1	*	*
	QUL-21A-65M	2014 09 25	21.1	23.5	< 30	2.56	52.2	1.04	3.53	0.29	0.73	15.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.97	< 0.05	1.05	-	6.01	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.625	< 1	< 3
	QUL-21A-0M	2014 09 27	8.9	17.5	< 30	1.9	0.204	0.449	0.796	< 0.1	< 0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.55	< 0.05	1	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.163	< 1	< 3
	QUL-21A-40M	2014 09 27	17.3	23	< 30	2.5	42.9	1.06	3.6	0.29	0.71	16.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.1	< 0.05	1.28	-	6.26	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.629	< 1	< 3
	QUL-21A-60M	2014 09 27	16.9	23.6	< 30	2.58	57.4	1.17	3.97	0.31	0.8	17.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.47	< 0.05	1.31	-	6.97	< 0.5	0.5	< 0.01	< 0.01	< 10	0.721	1	< 3
	QUL-21AX-60M	2014 09 27	17.3	23.5	< 30	2.59	56.5	1.15	3.92	0.31	0.77	17.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.55	< 0.05	1.25	-	6.89	< 0.5	0.54	< 0.01	< 0.01	< 10	0.714	1	< 3
	QA/QC RPD %		2	< 1	*	< 1	2	2	1	*	4	< 1	*	*	*	*	*	1	*	*	-	1	*	*	*	*	*	< 1	*	*
	QUL-21A-0M	2014 10 04	7.9	17.5	< 30	1.94	0.414	0.464	0.878	< 0.1	0.11	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.01	< 0.05	1.11	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QUL-21A-40M	2014 10 04	10	19.3	< 30	2.16	12.3	0.677	1.84	0.11	0.32	8.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.24	< 0.05	1	-	2.22	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.296	< 1	< 3
	QUL-21A-55M	2014 10 04	12.6	21.8	< 30	2.42	37.2	0.977	3.2	0.22	0.57	13.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.21	0.068	1.25	-	4.97	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.524	< 1	< 3
	QUL-21AX-55M	2014 10 04	12.7	22	< 30	2.43	36.1	0.975	3.14	0.22	0.59	13.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.19	< 0.05	1.09	-	4.88	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.501	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	3	< 1	2	*	3	4	*	*	*	*	*	< 1	*	*	-	2	*	*	*	*	*	5	*	*
QUL-22	QUL-22-0M	2014 09 23	8.2	17.2	< 30	1.91	0.204	0.433	0.784	< 0.1	< 0.1	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.61	< 0.05	< 0.5	-	0.236	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-22-5M	2014 09 23	8.2	17.1	< 30	1.89	0.15	0.434	0.784	< 0.1	< 0.1	4.91	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05	0.59	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-22-9M	2014 09 23	7.9	17.3	< 30	1.89	0.126	0.437	0.792	< 0.1	0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.77	-	0.245	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-22-0M	2014 09 26	8.6	17.5	< 30	1.9	0.115	0.431	0.784	< 0.1	< 0.1	4.87	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.84	-	0.239	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUL-22X-0M	2014 09 26	8.4	17.4	< 30	1.89	0.143	0.434	0.776	< 0.1	< 0.1	4.79	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.79	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	*	< 1	1	*	*	2	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	0	*	*
	QUL-22	2014 10 04	7.1	17.8	< 30	1.98	0.351	0.449	0.845	< 0.1	0.11	5.46	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	1.04	-	0.324	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]		1,000	n/a	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-18	QUL-18	2014 09 22	24.8	< 0.1	0.11	5.08	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.8	< 30	< 0.05	0.75	1,770	1.19	-	0.261	< 0.5	430	< 0.5	1,390	< 0.01	806	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-18	2014 09 23	22.1	< 0.1	0.13	5.06	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.84	< 30	< 0.05	1.07	1,970	1.16	-	0.313	< 0.5	516	< 0.5	1,470	< 0.01	869	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUL-18-0M	2014 09 25	66.1	< 0.1	0.11	5.53	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	1.44	68	< 0.05	< 0.5	1,940	2.36	-	0.334	< 0.5	472	< 0.5	1,520	< 0.01	834	< 0.01	< 0.1	< 10	0.166	< 1	< 3
	QUL-18-40M	2014 09 25	***2,110***	0.24	1	61.9	< 0.1	< 0.5	< 10	0.013	21,400	0.95	0.62	**37.4**	***930***	0.652	1.48	2,720	***65.6***	-	4.41	1.02	1,940	< 0.5	6,930	0.014	3,150	< 0.01	< 0.1	73	0.521	3.6	3.9
	QUL-18-100M	2014 09 25	***4,100***	0.39	1.85	117	< 0.1	< 0.5	13	0.02	24,500	**1.7**	1.23	**73.2**	***1,770***	1.25	2.25	3,370	***124***	-	7.73	1.63	3,280	0.59	11,400	0.028	5,220	0.015	0.11	142	0.842	**6.8**	6.9
	QUL-18-0M	2014 10 01	29.3	< 0.1	0.12	5.01	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.99	< 30	0.201	0.98	1,840	1.47	-	0.28	< 0.5	455	< 0.5	1,410	< 0.01	805	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-18-40M	2014 10 01	***2,780***	0.27	1.32	77.3	< 0.1	< 0.5	< 10	0.012	21,900	**1.07**	0.76	**50.2**	***1,150***	0.863	1.65	2,810	***83.7***	-	5.79	1.17	2,400	< 0.5	8,510	0.017	3,980	0.011	< 0.1	93	0.652	4.5	4.3
	QUL-18-80M	2014 10 01	***3,190***	0.31	1.55	88.3	< 0.1	< 0.5	10	0.018	23,700	**1.27**	0.94	**60.4**	***1,420***	1.01	1.84	3,090	***112***	-	6.4	1.36	2,640	0.58	8,860	0.02	4,450	0.011	< 0.1	113	0.731	5.3	5.3
QUL-20	QUL-20	2014 09 22	17.6	< 0.1	0.1	5.16	< 0.1	< 0.5	< 10	< 0.01	16,300	< 0.5	< 0.1	1.28	< 30	< 0.05	0.63	1,750	1.01	-	0.277	< 0.5	428	< 0.5	1,360	< 0.01	810	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-20	2014 09 23	19	< 0.1	0.11	4.91	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.64	< 30	< 0.05	0.96	1,890	1.12	-	0.31	< 0.5	469	< 0.5	1,420	< 0.01	835	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-20	2014 09 26	20	< 0.1	0.11	4.88	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.68	< 30	< 0.05	0.66	1,880	1.34	-	0.254	< 0.5	438	< 0.5	1,380	< 0.01	794	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUL-20	2014 09 29	21.3	< 0.1	0.12	5.04	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.77	< 30	< 0.05	0.89	1,890	1.31	-	0.28	< 0.5	443	< 0.5	1,410	< 0.01	803	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-20	2014 10 03	58.3	< 0.1	0.16	6.58	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.99	58	0.127	0.63	1,950	3.31	-	0.343	< 0.5	495	< 0.5	1,550	< 0.01	905	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-20-0M	2014 10 07	77.2	< 0.1	0.16	6.01	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.89	84	0.058	0.58	1,840	4.19	-	0.319	< 0.5	452	< 0.5	1,530	< 0.01	815	< 0.01	< 0.1	< 10	0.149	< 1	< 3
QUL-21	QUL-21-0M	2014 09 23	22.9	< 0.1	0.13	4.99	< 0.1	< 0.5	< 10	< 0.01	16,600	< 0.5	< 0.1	0.89	< 30	< 0.05	0.99	1,840	1.02	-	0.292	< 0.5	475	< 0.5	1,390	< 0.01	826	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUL-21X-0M	2014 09 23	52.1	< 0.1	0.13	4.96	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	0.94	89	< 0.05	1	1,900	1.86	-	0.304	< 0.5	474	< 0.5	1,460	< 0.01	810	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QA/QC RPD %		78	*	*	< 1	*	*	*	*	1	*	*	*	*	*	*	3	*	-	4	*	< 1	*	5	*	2	*	*	*	< 1	*	*
	QUL-21-20M	2014 09 23	40.9	< 0.1	0.15	6.17	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	1.93	< 30	< 0.05	1.04	1,950	2	-	0.38	< 0.5	504	< 0.5	1,650	< 0.01	928	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-21-47M	2014 09 23	***3,000***	0.32	1.45	84.6	< 0.1	< 0.5	< 10	0.018	22,500	**1.23**	0.93	**58.7**	***1,290***	1.01	2.33	3,060	***94.5***	-	6.1	1.33	2,510	< 0.5	8,200	0.021	4,110	0.012	0.13	102	0.674	5.3	5.1
	QUL-21-0M	2014 09 29	28	< 0.1	0.14	4.8	< 0.1	< 0.5	< 10	< 0.01	16,700	< 0.5	< 0.1	0.92	< 30	< 0.05	0.81	1,840	1.09	-	0.29	< 0.5	432	< 0.5	1,390	< 0.01	765	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-21-40M	2014 09 29	***2,010***	0.23	1.03	61.6	< 0.1	< 0.5	< 10	0.013	21,500	0.81	0.6	**39.7**	***819***	0.682	1.78	2,710	***64.3***	-	4.66	0.96	1,880	< 0.5	6,320	0.015	3,240	< 0.01	< 0.1	70	0.531	3.5	4
	QUL-21X-40M	2014 09 29	***2,390***	0.23	1.1	69.5	< 0.1	< 0.5	< 10	0.017	22,200	0.95	0.63	**41.9**	***869***	0.698	1.88	2,830	***67.9***	-	4.76	1.02	2,130	< 0.5	7,310	0.014	3,470	< 0.01	< 0.1	78	0.537	3.8	4.2
	QA/QC RPD %		17	*	7	12	*	*	*	*	3	*	5	*	6	*	*	4	*	-	2	*	13	*	15	*	7	*	*	11	1	*	*
	QUL-21-45M	2014 09 29	***2,220***	0.26	1.2	65.8	< 0.1	< 0.5	< 10	0.016	22,100	0.95	0.68	**47.2**	***953***	0.802	1.92	2,850	***75***	-	5.28	1.12	1,990	< 0.5	6,570	0.016	3,590	< 0.01	< 0.1	82	0.598	4	4.6
	QUL-21-0M	2014 10 04	***104***	< 0.1	0.13	6.55	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.99	105	0.06	0.71	1,940	3.89	-	0.351	< 0.5	471	< 0.5	1,590	< 0.01	877	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-21-40M	2014 10 04	***1,570***	0.18	0.85	48.6	< 0.1	< 0.5	< 10	0.01	20,300	0.69	0.45	**30.6**	***696***	0.517	1.41	2,530	48.8	-	3.78	0.78	1,560	< 0.5	5,380	0.015	2,750	< 0.01	< 0.1	58	0.442	2.7	3
QUL-21a	QUL-21A-0M	2014 09 25	45.3	< 0.1	0.11	5.31	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.18	43	< 0.05	0.6	1,890	1.87	-	0.345	< 0.5	444	< 0.5	1,470	< 0.01	811	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-21A-40M	2014 09 25	***2,560***	0.28	1.21	76.2	< 0.1	< 0.5	10	0.015	21,800	**1.13**	0.76	**47.1**	***1,100***	0.792	1.8	2,850	***76.3***	-	5.36	1.18	2,320	< 0.5	8,020	0.017	3,600	0.011	< 0.1	89	0.584	4.3	5.5
	QUL-21AX-40M	2014 09 25	***2,500***	0.29	1.21	74.9	< 0.1	< 0.5	10	0.022	22,200	**1.11**	0.78	**47.8**	***1,140***	0.816	1.75	2,920	***76.9***	-	5.36	1.13	2,240	< 0.5	7,910	0.03	3,570	0.018	< 0.1	91	0.596	4.3	4.5
	QA/QC RPD %		2	*	0	2	*	*	*	*	2	*	3	*	4	*	*	2	*	-	0	*	4	*	1	*	< 1	*	*	2	2	*	*
	QUL-21A-65M	2014 09 25	***3,320***	0.34	1.55	96.4	< 0.1	< 0.5	11	0.018	23,800	**1.41**	1.06	**62.4**	***1,630***	1.11	1.99	3,280	***103***	-	6.55	1.44	2,740	0.52	10,100	0.026	4,130	0.013	< 0.1	131	0.728	5.7	5.7
	QUL-21A-0M	2014 09 27	25.5	< 0.1	0.12	5.19	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	1.08	< 30	0.06	0.81	1,930	1.18	-	0.286	< 0.5	466	< 0.5	1,420	< 0.01	846	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-21A-40M	2014 09 27	***2,700***	0.31	1.35	83.7	< 0.1	< 0.5	11	0.017	22,600	**1.14**	0.83	**54.1**	***1,160***	0.966	1.94	2,950	***85.4***	-	6.17	1.26	2,440	< 0.5	7,930	0.02	4,080	< 0.01	< 0.1	94	0.694	4.8	4.7
	QUL-21A-60M	2014 09 27	***3,470***	0.35	1.57	105	< 0.1	< 0.5	12	0.022	23,400	**1.34**	1.02	**63.6**	***1,450***	1.16	2.25	3,150	***107***	-	6.85	1.41	2,910	0.52	9,840	0.025	4,480	0.011	0.12	118	0.763	5.9	5.9
	QUL-21AX-60M	2014 09 27	***3,270***	0.35	1.53	98.2	< 0.1	< 0.5	12	0.023	23,700	**1.31**	0.96	**63.2**	***1,370***	1.19	2.27	3,150	***104***	-	6.94	1.37	2,800	0.54	9,350	0.022	4,530	0.011	0.13	111	0.786	5.5	5.9
	QA/QC RPD %		6	*	3	7	*	*	*	*	1	*	6	*	6	*	*	0	*	-	1	*	4	*	5	*	1	*	*	6	3	7	*
	QUL-21A-0M	2014 10 04	81.6	< 0.1	0.14	6.32	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.92	95	< 0.05	0.91	1,970	3.63	-	0.373	< 0.5	465	< 0.5	1,570	< 0.01	867	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-21A-40M	2014 10 04	***895***	0.12	0.52	29	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.29	**18.5**	***426***	0.307	1.02	2,260	28.2	-	2.29	0.66	1,070	< 0.5	3,600	0.03	1,950	< 0.01	< 0.1	34	0.317	1.7	< 3
	QUL-21A-55M	2014 10 04	***2,400***	0.25	1.15	70.9	< 0.1	< 0.5	< 10	0.015	22,400	0.98	0.64	**42.4**	***997***	0.77	1.83	2,860	***69***	-	5.24	1.02	2,140	< 0.5	7,760	0.018	3,620	< 0.01	< 0.1	84	0.596	3.8	4.1
	QUL-21AX-55M	2014 10 04	***2,340***	0.25	1.13	71.4	< 0.1	< 0.5	< 10	0.014	22,300	0.89	0.63	**41.7**	***966***	0.762	1.72	2,810	***68.4***	-	5.38	1.06	2,080	< 0.5	7,400	0.02	3,550	< 0.01	< 0.1	81	0.593	3.8	4
	QA/QC RPD %		3	*	2	< 1	*	*	*	*	< 1	*	2	*	3	*	*	2	*	-	3	*	3	*	5	*	2	*	*	4	< 1	*	*
QUL-22	QUL-22-0M	2014 09 23	16	< 0.1	0.1	4.99	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.9	< 30	0.07	< 0.5	1,900	0.954	-	0.582	< 0.5	451	< 0.5	1,420	< 0.01	821	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-22-5M	2014 09 23	17	< 0.1	0.11	4.95	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	1.07	< 30	< 0.05	0.64	1,880	0.934	-	0.267	< 0.5	433	< 0.5	1,400	< 0.01	798	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-22-9M	2014 09 23	16.1	< 0.1	< 0.1	5.02	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.86	< 30	< 0.05	0.73	1,900	0.941	-	0.259	< 0.5	439	< 0.5	1,420	< 0.01	796	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUL-22-0M	2014 09 26	20.7	< 0.1	< 0.1	4.8	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.72	< 30	< 0.05	0.73	1,850	1	-	0.263	< 0.5	441	< 0.5	1,360	< 0.01	809	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-22X-0M	2014 09 26	18.6	< 0.1	< 0.1	4.89	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.71	< 30	< 0.05	0.74	1,880	0.936	-	0.271	< 0.5	433	< 0.5	1,380	< 0.01	779	0.01	< 0.1	< 10	0.154	< 1	< 3
	QA/QC RPD %		11	*	*	2	*	*	*	*	1	*	*	*	*	*	*	2	*	-	3	*	2	*	2	*	4	*	*	*	2	*	*
	QUL-22	2014 10 04	70	< 0.1	0.13	6.25	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	2.01	75	< 0.05	0.78	1,950	3.39	-	0.406	< 0.5	467	< 0.5	1,500	< 0.01	878	< 0.01	< 0.1	< 10	0.161	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																								
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[j]	n/a[j]	n/a	500	n/a	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-23	QUL-23	2014 09 22	48.2	8	7.8	15.036	0.36	101	63	< 3	1.64	-	0.119	< 5	53.3	< 1	-	< 0.5	34	5.99	47.1	-	< 0.001	< 0.002[a]
	QUL-23	2014 09 23	51.3	7.48	7.97	14.99	0.53	101	55	< 3	2.2	-	0.157	< 5	42.4	< 1	-	< 0.5	23	4.4	49.9	-	< 0.001	< 0.002[a]
	QUL-23	2014 09 26	52.1	7.94	7.68	14.86	0.94	101	66	< 3	1.89	-	0.095	< 5	60.7	< 1	-	< 0.5	34	6.08	49.7	-	< 0.001	< 0.002[a]
	QUL-23	2014 10 01	48.5	8	7.17	14.7	0.67	99.9	65	< 3	1.91	-	0.126	< 5	53	< 1	-	< 0.5	35	6	43.9	-	< 0.001	< 0.002[a]
	QUL-23	2014 10 07	51.1	8.04	7.88	-	4	105	70	3.9	2.04	-	0.187	< 5	60.4	< 1	-	< 0.5	42	6.3	51	-	< 0.001	< 0.002[a]
QUL-31a	QUL-31A-0M	2014 09 27	52.1	7.88	7.61	14.7	0.33	101	64	< 3	1.79	-	0.1	< 5	59.9	< 1	-	< 0.5	34	6.12	48.3	-	< 0.001	< 0.002[a]
	QUL-31A-40M	2014 09 27	56.4	7.53	7.69	5.23	7.6	112	71	< 3	1.73	-	0.167	7.1	151	< 1	-	< 0.5	41	7.6	52.8	-	< 0.001	< 0.002[a]
	QUL-31A-100M	2014 09 27	55.4	7.52	7.68	4.33	3.18	109	71	< 3	1.72	-	0.159	< 5	151	< 1	-	< 0.5	38	6.84	52	-	< 0.001	< 0.002[a]
	QUL-31A-0M	2014 10 07	51	7.98	7.86	-	0.43	103	69	< 3	1.93	-	0.141	< 5	63.3	< 1	-	< 0.5	35	6.15	50	-	< 0.001	< 0.002[a]
	QUL-31A-40M	2014 10 07	54	7.61	7.84	-	5.7	111	73	< 3	1.67	-	0.194	< 5	147	< 1	-	< 0.5	40	7.25	53	-	< 0.001	< 0.002[a]
	QUL-31A-80M	2014 10 07	53.9	7.56	7.83	-	2.79	110	71	< 3	1.75	-	0.218	< 5	148	< 1	-	< 0.5	40	6.74	53.1	-	< 0.001	< 0.002[a]
	QUL-31AX-80M	2014 10 07	54.7	7.56	7.84	-	3.24	109	73	< 3	1.79	-	0.242	< 5	148	< 1	-	< 0.5	39	6.73	52.7	-	< 0.001	< 0.002[a]
	QA/QC RPD %		2	0	< 1	-	15	< 1	3	*	*	-	*	*	0	*	-	*	*	< 1	< 1	-	*	*
QUL-38	QUL-38	2014 10 03	52.6	-	7.86	-	1.39	102	68	< 3	1.87	-	0.127	< 5	60.2	< 1	-	< 0.5	35	6.17	49.4	-	< 0.001	< 0.002[a]
QUL-40	QUL-40-0M	2014 09 22	48.3	7.57	7.93	15.39	1.82	102	68	< 3	1.73	-	0.154	8.2	55.4	< 1	-	< 0.5	33	6.05	49	-	< 0.001	< 0.002[a]
	QUL-40-50M	2014 09 22	52.3	7.19	7.89	5.05	4.97	112	72	< 3	1.64	-	0.203	< 5	148	< 1	-	< 0.5	38	7.18	51.1	-	< 0.001	**0.0021**
	QUL-40-98M	2014 09 22	51.5	7.34	7.89	4.39	3.14	110	83	< 3	1.7	-	0.205	7.2	146	< 1	-	< 0.5	38	6.85	51.3	-	< 0.001	< 0.002[a]
	QUL-40-0M	2014 09 26	52.1	7.68	7.68	14.74	0.85	101	65	< 3	1.84	-	0.124	21.7	59.2	< 1	-	< 0.5	35	6.13	49.5	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 09 26	55.3	7.44	7.66	5.2	5.07	109	73	< 3	1.9	-	0.165	7.8	151	< 1	-	< 0.5	41	7.48	52.8	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 09 26	55.3	7.42	7.66	4.35	2.75	108	72	< 3	1.83	-	0.158	< 5	150	< 1	-	< 0.5	37	6.92	54.9	-	< 0.001	< 0.002[a]
	QUL-40-0M	2014 09 29	51.1	8.06	7.76	14.59	0.69	107	62	< 3	1.6	-	0.143	5.3	57	< 1	-	< 0.5	31	6.12	52.1	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 09 29	51.2	7.63	7.69	5.2	5.64	109	68	3.3	1.46	-	0.214	17.9	147	< 1	-	< 0.5	38	7.48	53.5	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 09 29	55	7.62	7.69	7.34	2.61	107	67	< 3	1.56	-	0.208	< 5	148	< 1	-	< 0.5	36	6.86	53.8	-	< 0.001	< 0.002[a]
	QUL-40-0M	2014 10 06	52.2	7.81	7.86	-	0.71	102	68	< 3	1.88	-	0.155	< 5	61.4	< 1	-	< 0.5	35	6.13	49.6	-	< 0.001	< 0.002[a]
	QUL-40-40M	2014 10 06	55.1	7.7	7.81	-	5.38	111	72	3.4	1.76	-	0.183	5	140	< 1	-	< 0.5	40	7.25	52.4	-	< 0.001	< 0.002[a]
	QUL-40-80M	2014 10 06	54.6	7.64	7.8	-	3.14	110	73	< 3	1.74	-	0.187	< 5	147	< 1	-	< 0.5	38	6.76	52.5	-	< 0.001	< 0.002[a]
QUL-40A	QUL-40A-0M	2014 09 27	51.5	7.99	7.67	14.88	0.72	102	66	< 3	1.84	-	0.101	6.2	58.3	< 1	-	< 0.5	34	6.12	49.1	-	< 0.001	< 0.002[a]
	QUL-40A-40M	2014 09 27	54.6	7.56	7.68	4.77	3.63	109	69	< 3	1.78	-	0.156	< 5	150	< 1	-	< 0.5	39	6.85	51.9	-	< 0.001	< 0.002[a]
	QUL-40A-100M	2014 09 27	55.5	7.56	7.68	4.37	1.63	109	80	< 3	1.74	-	0.149	< 5	150	< 1	-	< 0.5	37	6.57	52.3	-	< 0.001	< 0.002[a]
	QUL-40A-0M	2014 10 06	50.9	7.7	7.86	-	0.54	103	66	< 3	1.9	-	0.139	< 5	61.7	< 1	-	< 0.5	35	6.19	49.5	-	< 0.001	< 0.002[a]
	QUL-40A-40M	2014 10 06	58.5	7.74	7.85	-	18.2	121	82	4.7	1.85	-	0.223	14.4	154	1.1	-	< 0.5	55	9.77	54.5	-	< 0.001	< 0.002[a]
	QUL-40A-80M	2014 10 06	55.3	7.67	7.82	-	4.14	110	74	< 3	1.77	-	0.197	< 5	147	< 1	-	< 0.5	39	6.95	53	-	< 0.001	< 0.002[a]
QUL-66	QUL-66-0M	2014 09 23	51	8	7.96	15.27	0.46	101	63	< 3	1.78	-	0.236	6.5	54.7	< 1	-	< 0.5	31	6.05	50	-	< 0.001	< 0.002[a]
	QUL-66-15M	2014 09 23	51.1	7.94	7.93	14.7	0.58	101	67	< 3	1.86	-	0.124	< 5	53.1	< 1	-	< 0.5	32	6.05	49.6	-	< 0.001	< 0.002[a]
	QUL-66-50M	2014 09 23	66.8	7.81	8	6.5	58.2	148	100	28.2	1.9	-	0.323	45.6	183	2.1	-	0.53	68	16.2	62.5	-	0.0016	**0.004**
	QUL-66-0M	2014 09 29	51.9	8.15	7.76	14.4	0.94	100	64	< 3	1.51	-	0.132	< 5	54.1	< 1	-	< 0.5	32	6.13	50.6	-	< 0.001	**0.0032**
	QUL-66-40M	2014 09 29	64.6	7.75	7.66	6.3	38.8	137	96	8.2	1.51	-	0.361	39	182	2.1	-	< 0.5	62	14.7	59.6	-	0.001	**0.0026**
	QUL-66-50M	2014 09 29	67.3	7.85	7.79	6.5	54.5	149	104	6.8	1.62	-	0.332	47.5	188	2.9	-	0.53	69	16.7	63.3	-	0.0017	**0.0033**
	QUL-66-0M	2014 10 01	50.1	7.91	7.68	14.4	0.76	99.7	74	< 3	1.87	-	0.126	< 5	53.8	< 1	-	< 0.5	35	6	49.3	-	< 0.001	< 0.002[a]
	QUL-66-40M	2014 10 01	66.1	7.76	7.69	6.6	56.5	147	103	7.6	2.19	-	0.411	49	193	2.6	-	0.85	72	16.7	61.1	-	< 0.001	**0.0025**
	QUL-66X-40M	2014 10 01	66.1	7.66	7.72	6.2	57.5	148	108	6.5	2.24	-	0.391	48.1	192	2.6	-	0.75	82	16.7	61.6	-	0.0013	**0.0032**
	QA/QC RPD %		0	1	< 1	6	2	< 1	5	*	*	-	5	2	< 1	*	-	*	*	0	< 1	-	*	*
	QUL-66-50M	2014 10 01	67	7.79	7.73	6.6	59.2	151	109	7.8	2.09	-	0.328	48.6	195	3	-	0.74	84	17.1	60.9	-	0.0016	**0.0034**

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Dissolved Metals																											
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-23	QUL-23	2014 09 22	8.9	16.4	< 30	1.75	0.372	0.43	0.787	< 0.1	< 0.1	4.99	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.6	-	0.266	< 0.5	< 0.5	< 0.01	0.012	< 10	0.155	< 1	< 3
	QUL-23	2014 09 23	9.2	17.4	< 30	1.91	0.305	0.472	0.813	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.64	< 0.05	1.08	-	0.255	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-23	2014 09 26	8.3	17.7	< 30	1.91	1.83	0.445	0.798	< 0.1	0.11	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.63	< 0.05	0.93	-	0.258	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-23	2014 10 01	13.2	16.5	< 30	1.8	1.13	0.448	0.841	< 0.1	< 0.1	4.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.85	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-23	2014 10 07	9.2	17.4	< 30	1.86	0.644	0.489	0.886	< 0.1	0.13	5.54	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.67	-	0.316	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
QUL-31a	QUL-31A-0M	2014 09 27	8.5	17.7	< 30	1.91	0.145	0.449	0.787	< 0.1	< 0.1	4.75	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.82	-	0.239	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-31A-40M	2014 09 27	7.2	19.1	< 30	2.13	4.66	0.561	1.26	< 0.1	0.18	6.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.99	< 0.05	1.05	-	1.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.231	< 1	< 3
	QUL-31A-100M	2014 09 27	5.4	18.7	< 30	2.08	1.29	0.513	1.03	< 0.1	0.13	5.77	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.17	< 0.05	1.15	-	0.543	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.192	< 1	< 3
	QUL-31A-0M	2014 10 07	8	17.4	< 30	1.86	0.136	0.45	0.799	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-31A-40M	2014 10 07	7.9	18.3	< 30	2	2.3	0.532	1.14	< 0.1	0.14	6.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.65	< 0.05	0.75	-	0.769	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.192	< 1	< 3
	QUL-31A-80M	2014 10 07	6	18.3	< 30	1.98	0.611	0.497	1	< 0.1	0.1	5.39	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.02	< 0.05	0.78	-	0.467	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
	QUL-31AX-80M	2014 10 07	6.3	18.5	< 30	2.05	0.685	0.466	0.949	< 0.1	0.13	5.27	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	< 0.05	0.55	-	0.481	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.175	< 1	< 3
	QA/QC RPD %		*	1	*	4	11	6	5	*	*	2	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	5	*	*
QUL-38	QUL-38	2014 10 03	9.3	17.8	< 30	1.97	0.556	0.487	0.881	< 0.1	0.12	5.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.63	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
QUL-40	QUL-40-0M	2014 09 22	8.5	16.4	< 30	1.77	0.371	0.446	0.825	< 0.1	< 0.1	4.88	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.58	-	0.24	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-40-50M	2014 09 22	6.5	17.8	< 30	1.92	4.1	0.516	1.17	< 0.1	0.15	6.33	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.68	< 0.05	0.66	-	0.769	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.194	< 1	< 3
	QUL-40-98M	2014 09 22	5.2	17.5	< 30	1.89	10.1	0.496	1.05	< 0.1	0.13	5.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.37	< 0.05	0.68	-	0.597	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.18	< 1	< 3
	QUL-40-0M	2014 09 26	8.9	17.6	< 30	1.98	0.668	0.477	0.839	< 0.1	0.11	5.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.79	-	0.28	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-40-40M	2014 09 26	7.1	18.7	< 30	2.08	6.74	0.548	1.2	< 0.1	0.18	6.64	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.93	< 0.05	0.85	-	0.897	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.196	< 1	< 3
	QUL-40-80M	2014 09 26	5.8	18.7	< 30	2.06	2.27	0.498	1.03	< 0.1	0.13	5.64	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.16	< 0.05	0.97	-	0.561	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.173	< 1	< 3
	QUL-40-0M	2014 09 29	8.3	17.3	< 30	1.9	0.152	0.434	0.78	< 0.1	0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.83	-	0.268	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-40-40M	2014 09 29	7.6	17.4	< 30	1.9	4.11	0.532	1.2	< 0.1	0.17	6.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.1	< 0.05	0.98	-	0.965	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.206	< 1	< 3
	QUL-40-80M	2014 09 29	11.7	18.6	< 30	2.07	2.46	0.497	1.02	< 0.1	0.12	5.66	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.92	< 0.05	0.96	-	0.563	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.177	< 1	< 3
	QUL-40-0M	2014 10 06	7.7	17.8	< 30	1.88	0.234	0.429	0.828	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.58	-	0.245	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.142	< 1	< 3
	QUL-40-40M	2014 10 06	7.4	18.8	< 30	2.02	2.56	0.519	1.18	< 0.1	0.14	6.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.53	< 0.05	0.75	-	0.805	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.182	< 1	< 3
	QUL-40-80M	2014 10 06	4.6	18.5	< 30	2	1.35	0.484	1.03	< 0.1	0.11	5.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.07	< 0.05	0.76	-	0.521	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.167	< 1	< 3
QUL-40A	QUL-40A-0M	2014 09 27	8.2	17.5	< 30	1.91	0.207	0.45	0.794	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	1	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.161	< 1	< 3
	QUL-40A-40M	2014 09 27	6.2	18.5	< 30	2.07	1.88	0.515	1.05	< 0.1	0.12	5.98	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.24	< 0.05	1.02	-	0.562	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.185	< 1	< 3
	QUL-40A-100M	2014 09 27	5.1	18.8	< 30	2.09	0.789	0.491	0.949	< 0.1	0.1	5.45	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.81	< 0.05	1.13	-	0.405	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.177	< 1	< 3
	QUL-40A-0M	2014 10 06	7.4	17.3	< 30	1.84	0.118	0.439	0.823	< 0.1	< 0.1	4.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.5	< 0.05	0.57	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.139	< 1	< 3
	QUL-40A-40M	2014 10 06	10.7	19.9	< 30	2.14	13.8	0.671	1.87	0.11	0.3	8.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	3.42	< 0.05	0.8	-	2.24	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.304	< 1	< 3
	QUL-40A-80M	2014 10 06	6.3	18.8	< 30	2.03	2.38	0.502	1.13	< 0.1	0.13	5.77	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.41	< 0.05	0.79	-	0.68	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.179	< 1	< 3
QUL-66	QUL-66-0M	2014 09 23	9	17.3	< 30	1.89	0.257	0.454	0.838	< 0.1	0.11	4.94	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.64	-	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.145	< 1	< 3
	QUL-66-15M	2014 09 23	8.2	17.3	< 30	1.91	0.544	0.442	0.832	< 0.1	< 0.1	4.98	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.68	< 0.05	0.62	-	0.248	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-66-50M	2014 09 23	15.2	22.6	< 30	2.51	49	1.06	3.69	0.29	0.76	15.5	< 0.1	< 10	0.011	< 0.5	< 0.1	6.71	< 0.05	1.09	-	5.8	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.58	< 1	< 3
	QUL-66-0M	2014 09 29	8.3	17.6	< 30	1.92	0.374	0.447	0.806	< 0.1	0.11	5.13	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.77	< 0.05	0.89	-	0.285	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-66-40M	2014 09 29	12.1	21.9	< 30	2.4	35.9	0.924	2.96	0.21	0.54	13.2	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.7	< 0.05	1.14	-	4.66	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.497	< 1	< 3
	QUL-66-50M	2014 09 29	15.6	22.8	< 30	2.51	47.9	1.1	3.71	0.28	0.73	15.4	< 0.1	< 10	0.012	< 0.5	< 0.1	6.62	< 0.05	1.21	-	6.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.62	< 1	< 3
	QUL-66-0M	2014 10 01	8.5	17	< 30	1.84	0.071	0.453	0.838	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.59	< 0.05	0.64	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-66-40M	2014 10 01	**64.5**	22.5	< 30	2.41	51.1	1.15	3.81	0.26	0.73	16.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	7.26	< 0.05	0.87	-	6.27	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.648	< 1	< 3
	QUL-66X-40M	2014 10 01	36.6	22.5	< 30	2.43	49.8	1.15	3.8	0.25	0.72	15.6	< 0.1	< 10	0.014	< 0.5	< 0.1	7.41	< 0.05	0.88	-	6.14	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.633	< 1	< 3
	QA/QC RPD %		55	0	*	< 1	3	0	< 1	*	1	5	*	*	*	*	*	2	*	*	-	2	*	*	*	*	*	2	*	*
	QUL-66-50M	2014 10 01	***233***	22.8	78	2.47	55.6	1.29	4.04	0.25	0.82	20.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	9.08	0.073	0.9	-	6.28	< 0.5	< 0.5	< 0.01	< 0.01	10	0.642	1.3	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Total Metals																														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]		1,000	n/a	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-23	QUL-23	2014 09 22	15.7	< 0.1	0.1	5.25	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.73	< 30	< 0.05	0.63	1,760	1.13	-	0.302	< 0.5	446	< 0.5	1,360	< 0.01	837	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUL-23	2014 09 23	19.6	< 0.1	0.11	4.98	< 0.1	< 0.5	< 10	0.013	16,600	< 0.5	< 0.1	1.43	< 30	0.087	0.98	1,870	1.32	-	0.285	< 0.5	706	< 0.5	1,380	< 0.01	961	< 0.01	< 0.1	< 10	0.15	< 1	4.9
	QUL-23	2014 09 26	41.9	< 0.1	0.12	5.67	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.43	73	< 0.05	0.75	1,930	3.21	-	0.289	< 0.5	461	< 0.5	1,460	< 0.01	823	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-23	2014 10 01	30.1	< 0.1	0.12	4.9	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	1.08	60	< 0.05	0.71	1,810	1.72	-	0.277	< 0.5	458	< 0.5	1,370	< 0.01	841	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-23	2014 10 07	86	< 0.1	0.15	6.53	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	**2.35**	78	0.056	0.53	1,890	3.6	-	0.393	< 0.5	486	< 0.5	1,550	< 0.01	871	< 0.01	< 0.1	< 10	0.159	< 1	< 3
QUL-31a	QUL-31A-0M	2014 09 27	14	< 0.1	0.11	4.78	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.73	1,890	0.776	-	0.246	< 0.5	460	< 0.5	1,360	< 0.01	822	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-31A-40M	2014 09 27	***403***	< 0.1	0.27	15.4	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	0.12	**8.43**	161	0.167	0.97	2,130	12.5	-	1.08	< 0.5	736	< 0.5	2,490	< 0.01	1,340	< 0.01	< 0.1	15	0.239	< 1	< 3
	QUL-31A-100M	2014 09 27	***136***	< 0.1	0.16	8.92	< 0.1	< 0.5	< 10	< 0.01	18,900	< 0.5	< 0.1	**3.73**	64	0.082	0.93	2,150	5.86	-	0.565	< 0.5	595	< 0.5	1,990	< 0.01	1,120	< 0.01	< 0.1	< 10	0.208	< 1	< 3
	QUL-31A-0M	2014 10 07	16	< 0.1	0.1	4.67	< 0.1	< 0.5	< 10	< 0.01	16,400	< 0.5	< 0.1	0.63	< 30	< 0.05	0.55	1,760	0.991	-	0.239	< 0.5	413	< 0.5	1,330	< 0.01	744	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-31A-40M	2014 10 07	***246***	< 0.1	0.22	11.8	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	**5.92**	110	0.095	0.69	1,990	8.41	-	0.852	< 0.5	621	< 0.5	2,190	< 0.01	1,170	< 0.01	< 0.1	12	0.212	< 1	< 3
	QUL-31A-80M	2014 10 07	***135***	< 0.1	0.17	8.27	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	**3.33**	67	0.053	0.71	1,990	5.19	-	0.517	< 0.5	545	< 0.5	1,950	< 0.01	1,010	< 0.01	< 0.1	< 10	0.182	< 1	< 3
	QUL-31AX-80M	2014 10 07	***160***	< 0.1	0.15	9.24	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	**3.48**	83	0.07	1.38	2,070	5.44	-	0.53	< 0.5	591	< 0.5	2,040	< 0.01	1,050	< 0.01	< 0.1	< 10	0.187	< 1	< 3
	QA/QC RPD %		17	*	*	11	*	*	*	*	2	*	*	*	*	*	*	4	*	-	3	*	8	*	5	*	4	*	*	*	3	*	*
QUL-38	QUL-38	2014 10 03	53.2	< 0.1	0.14	5.91	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	1.62	54	< 0.05	0.61	1,980	3.1	-	0.308	< 0.5	486	< 0.5	1,490	< 0.01	862	< 0.01	< 0.1	< 10	0.153	< 1	< 3
QUL-40	QUL-40-0M	2014 09 22	15.8	< 0.1	0.11	5.02	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.89	< 30	< 0.05	0.56	1,790	1.34	-	0.283	< 0.5	447	< 0.5	1,340	< 0.01	831	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-40-50M	2014 09 22	***320***	< 0.1	0.24	13	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	0.11	**6.52**	150	0.103	0.75	2,000	11.2	-	0.728	< 0.5	647	< 0.5	2,280	< 0.01	1,210	< 0.01	< 0.1	13	0.193	< 1	< 3
	QUL-40-98M	2014 09 22	***200***	< 0.1	0.21	10.2	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**4.29**	104	0.079	0.86	1,940	15.4	-	0.661	< 0.5	576	< 0.5	2,000	< 0.01	1,110	< 0.01	< 0.1	< 10	0.195	< 1	< 3
	QUL-40-0M	2014 09 26	15.1	< 0.1	0.12	5.26	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.54	< 30	< 0.05	0.67	2,000	2.37	-	0.293	< 0.5	463	< 0.5	1,400	< 0.01	840	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-40-40M	2014 09 26	***409***	< 0.1	0.27	15.8	< 0.1	< 0.5	< 10	< 0.01	18,900	< 0.5	0.13	**8.03**	198	0.179	0.92	2,200	15.1	-	0.995	0.53	752	< 0.5	2,800	< 0.01	1,300	< 0.01	< 0.1	17	0.225	< 1	< 3
	QUL-40-80M	2014 09 26	***189***	< 0.1	0.18	9.58	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**4.26**	89	0.076	0.82	2,060	6.17	-	0.646	< 0.5	583	< 0.5	2,090	< 0.01	1,070	< 0.01	< 0.1	< 10	0.191	< 1	< 3
	QUL-40-0M	2014 09 29	18.5	< 0.1	0.12	4.85	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.68	< 30	< 0.05	0.9	1,870	1.28	-	0.267	< 0.5	444	< 0.5	1,370	< 0.01	771	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-40-40M	2014 09 29	***364***	< 0.1	0.27	14.7	< 0.1	< 0.5	< 10	< 0.01	19,200	< 0.5	0.12	**8.01**	159	0.138	1.14	2,200	12	-	1.04	< 0.5	728	< 0.5	2,570	< 0.01	1,320	< 0.01	< 0.1	15	0.23	< 1	< 3
	QUL-40-80M	2014 09 29	***162***	< 0.1	0.17	9.31	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	**4.09**	83	0.076	1.02	2,080	6.77	-	0.562	< 0.5	557	< 0.5	2,030	< 0.01	1,030	< 0.01	< 0.1	11	0.189	< 1	< 3
	QUL-40-0M	2014 10 06	16.1	< 0.1	< 0.1	4.73	< 0.1	< 0.5	< 10	< 0.01	16,900	< 0.5	< 0.1	0.67	< 30	< 0.05	< 0.5	1,810	1.29	-	0.259	< 0.5	407	< 0.5	1,340	< 0.01	785	< 0.01	< 0.1	< 10	0.143	< 1	< 3
	QUL-40-40M	2014 10 06	***183***	< 0.1	0.2	10.3	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**5.44**	90	0.09	0.57	2,020	7.81	-	0.896	< 0.5	584	< 0.5	2,080	< 0.01	1,190	< 0.01	< 0.1	< 10	0.209	< 1	< 3
	QUL-40-80M	2014 10 06	***137***	< 0.1	0.18	8.53	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**3.52**	71	0.056	0.61	2,010	5.31	-	0.557	< 0.5	528	< 0.5	1,960	< 0.01	1,050	< 0.01	< 0.1	< 10	0.18	< 1	< 3
QUL-40A	QUL-40A-0M	2014 09 27	21.2	< 0.1	0.11	5.03	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.72	< 30	< 0.05	0.93	1,880	1.21	-	0.273	< 0.5	463	< 0.5	1,360	< 0.01	834	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-40A-40M	2014 09 27	***220***	< 0.1	0.19	10.5	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	**4.57**	104	0.112	1.05	2,120	7.47	-	0.62	< 0.5	620	< 0.5	2,170	< 0.01	1,110	< 0.01	< 0.1	11	0.21	< 1	< 3
	QUL-40A-100M	2014 09 27	84.7	< 0.1	0.13	7.01	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**2.26**	44	< 0.05	1.01	2,030	3.41	-	0.41	< 0.5	536	< 0.5	1,790	< 0.01	994	< 0.01	< 0.1	< 10	0.178	< 1	< 3
	QUL-40A-0M	2014 10 06	18.9	< 0.1	0.11	4.94	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.93	< 30	< 0.05	< 0.5	1,840	1.29	-	0.249	< 0.5	429	< 0.5	1,380	< 0.01	822	< 0.01	< 0.1	< 10	0.145	< 1	3.2
	QUL-40A-40M	2014 10 06	***634***	0.12	0.48	25	< 0.1	< 0.5	< 10	< 0.01	19,500	< 0.5	0.19	**17**	288	0.267	0.92	2,200	25.8	-	2.38	< 0.5	930	< 0.5	3,220	< 0.01	1,930	0.011	< 0.1	25	0.329	1.2	< 3
	QUL-40A-80M	2014 10 06	***196***	< 0.1	0.19	10.3	< 0.1	< 0.5	< 10	< 0.01	18,700	< 0.5	< 0.1	**4.71**	98	0.086	0.7	2,060	7.03	-	0.73	< 0.5	587	< 0.5	2,170	< 0.01	1,140	< 0.01	< 0.1	10	0.189	< 1	< 3
QUL-66	QUL-66-0M	2014 09 23	24.2	< 0.1	0.12	5.36	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	1.04	< 30	< 0.05	0.78	1,960	1.34	-	0.282	< 0.5	482	< 0.5	1,490	< 0.01	888	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-66-15M	2014 09 23	26.1	< 0.1	0.13	5.44	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	1	< 30	< 0.05	0.76	1,890	1.57	-	0.28	< 0.5	463	< 0.5	1,420	< 0.01	866	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-66-50M	2014 09 23	***2,930***	0.32	1.42	85.5	< 0.1	< 0.5	11	0.016	22,100	**1.35**	0.93	**58.5**	***1,390***	0.974	2.15	3,020	***94.5***	-	5.87	1.47	2,410	< 0.5	8,740	0.02	4,070	0.011	< 0.1	108	0.654	5.2	5.4
	QUL-66-0M	2014 09 29	49.9	< 0.1	0.14	5.35	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.34	52	< 0.05	0.95	1,910	2.13	-	0.396	< 0.5	458	< 0.5	1,460	< 0.01	805	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-66-40M	2014 09 29	***2,260***	0.27	1.12	66	< 0.1	< 0.5	< 10	0.015	22,100	0.97	0.65	**42**	***967***	0.811	2.01	2,800	***71.3***	-	5.07	1.12	2,020	< 0.5	7,090	0.017	3,370	< 0.01	< 0.1	81	0.596	3.9	4
	QUL-66-50M	2014 09 29	***2,960***	0.29	1.4	84.9	< 0.1	< 0.5	< 10	0.019	22,800	**1.19**	0.85	**55**	***1,230***	0.954	2.17	2,990	***89.1***	-	6.03	1.31	2,470	< 0.5	8,480	0.02	4,060	< 0.01	< 0.1	103	0.657	5.1	5.4
	QUL-66-0M	2014 10 01	26.1	< 0.1	0.11	5.01	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	1.02	< 30	< 0.05	0.54	1,840	1.47	-	0.273	< 0.5	456	< 0.5	1,380	< 0.01	840	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QUL-66-40M	2014 10 01	***2,720***	0.3	1.33	77.8	< 0.1	< 0.5	< 10	**0.033**	22,100	**1.16**	0.79	**52.9**	***1,190***	0.943	1.68	2,820	***89.2***	-	5.95	1.25	2,380	< 0.5	7,800	0.018	4,060	0.01	0.11	91	0.658	4.6	5.3
	QUL-66X-40M	2014 10 01	***2,720***	0.3	1.43	77.8	< 0.1	< 0.5	< 10	0.022	22,800	**1.14**	0.81	**53.7**	***1,230***	0.961	1.67	2,910	***89.5***	-	6.15	1.29	2,410	< 0.5	8,040	0.018	4,130	0.011	0.11	94	0.673	4.6	5.6
	QA/QC RPD %		0	*	7	0	*	*	*	*	3	*	3	2	3	2	*	3	< 1	-	3	*	1	*	3	*	2	*	*	3	2	*	*
	QUL-66-50M	2014 10 01	***3,150***	0.29	1.55	85.6	< 0.1	< 0.5	< 10	0.018	22,700	**1.27**	0.92	**58.7**	***1,320***	0.993	1.79	2,950	***98.2***	-	6.38	1.36	2,720	0.5	9,040	0.018	4,450	0.013	< 0.1	104	0.71	5.3	4.8

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																								
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[i]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[i]	n/a[i]	n/a	500	n/a	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-66A	QUL-66A-0M	2014 09 25	51.6	8	7.07	14.87	0.55	102	68	< 3	2.22	-	0.126	< 5	54.1	< 1	-	< 0.5	32	6.04	51.4	-	< 0.001	< 0.002[a]
	QUL-66AX-0M	2014 09 25	51.4	8	7.06	14.87	0.55	101	64	< 3	2.1	-	0.127	< 5	54.7	< 1	-	< 0.5	32	6.07	51.6	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	0	< 1	6	*	*	-	*	*	1	*	-	*	*	< 1	< 1	-	*	*
	QUL-66A-40M	2014 09 25	66.3	7.73	7.14	6.44	40.9	144	100	8.8	2.24	-	0.311	40.3	182	1.7	-	< 0.5	67	15.5	64.2	-	0.0019	**0.0033**
	QUL-66A-85M	2014 09 25	70.8	7.86	6.97	6.54	51.3	155	111	14.2	2.11	-	0.345	57.4	207	3	-	0.58	74	18.2	64.9	-	0.0019	**0.0044**
	QUL-66A-0M	2014 09 27	52	8	7.67	15.12	0.87	102	64	< 3	2.1	-	0.088	< 5	57.5	< 1	-	< 0.5	34	6.11	49.4	-	< 0.001	< 0.002[a]
	QUL-66A-40M	2014 09 27	67.1	7.79	7.76	6.47	51.2	145	101	9.7	1.88	-	0.256	45.5	187	2	-	< 0.5	66	15.7	60.7	-	0.0018	**0.0021**
	QUL-66A-80M	2014 09 27	71.1	7.85	7.75	6.5	65.6	153	108	13.3	1.96	-	0.297	59.2	207	3.2	-	0.59	72	17.9	62.9	-	0.0025	**0.0035**
	QUL-66A-0M	2014 10 01	50.2	7.9	7.67	14.4	0.86	100	67	< 3	1.83	-	0.118	< 5	54.2	< 1	-	< 0.5	35	6.02	49	-	< 0.001	< 0.002[a]
	QUL-66A-40M	2014 10 01	62.1	7.66	7.61	6.2	38	136	99	12.6	1.9	-	0.283	34.6	180	1.2	-	0.62	60	13.6	57.6	-	< 0.001	**0.0023**
	QUL-66A-80M	2014 10 01	67.2	7.81	7.73	6.6	65.8	152	106	10.6	1.99	-	0.333	53.4	200	3.3	-	0.8	86	17.7	62.3	-	0.0017	**0.004**
QUL-79	QUL-79-0M	2014 09 22	48.1	8.07	7.93	15.27	0.21	102	67	< 3	1.77	-	0.121	< 5	58.6	< 1	-	< 0.5	30	6.05	48.2	-	< 0.001	< 0.002[a]
	QUL-79-30M	2014 09 22	52.7	7.67	7.9	5.13	7.78	113	72	< 3	1.8	-	0.225	7.1	148	< 1	-	< 0.5	41	7.8	52.2	-	< 0.001	< 0.002[a]
	QUL-79-58M	2014 09 22	53.5	7.61	7.89	4.64	5.71	112	72	< 3	1.62	-	0.208	5.2	150	< 1	-	< 0.5	40	7.48	51.1	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 09 26	51.5	8.03	7.68	14.69	0.47	100	69	< 3	1.91	-	0.101	5.7	59.5	< 1	-	< 0.5	34	6.11	49.4	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 09 26	54.1	7.62	7.68	3.89	0.45	105	70	< 3	1.78	-	0.157	< 5	149	< 1	-	< 0.5	40	6.36	51.8	-	< 0.001	< 0.002[a]
	QUL-79-55M	2014 09 26	55.1	7.62	7.68	4.13	1.12	106	66	< 3	1.72	-	0.148	< 5	149	< 1	-	< 0.5	38	6.56	52.3	-	0.0012	< 0.002[a]
	QUL-79-0M	2014 09 30	51.4	8.23	7.03	14.6	0.53	104	60	< 3	1.86	-	0.125	< 5	57.6	< 1	-	< 0.5	34	6.07	53.2	-	< 0.001	**0.0024**
	QUL-79-20M	2014 09 30	56	7.9	6.91	5.7	6.82	130	66	3	1.9	-	0.216	6.2	158	4.5	-	< 0.5	44	7.73	54.5	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 09 30	54.3	7.82	7.03	4	0.86	111	66	< 3	1.82	-	0.196	< 5	156	4.2	-	< 0.5	41	6.47	52.2	-	< 0.001	< 0.002[a]
	QUL-79-50M	2014 09 30	54.3	7.81	7.04	4	1.99	111	72	< 3	1.81	-	0.204	< 5	149	< 1	-	< 0.5	37	6.57	52.1	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 04	51.7	8.18	7.86	13.2	0.55	101	65	< 3	1.73	-	0.134	< 5	62.3	< 1	-	< 0.5	35	6.1	48.5	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 04	49.5	7.86	7.85	9.1	6.46	110	71	< 3	2	-	0.173	5.6	107	< 1	-	< 0.5	40	7.37	51.9	-	< 0.001	< 0.002[a]
	QUL-79-0M	2014 10 07	49.8	7.99	7.86	-	0.7	102	68	< 3	1.82	-	0.13	< 5	62.2	< 1	-	< 0.5	35	6.15	50.1	-	< 0.001	< 0.002[a]
	QUL-79-40M	2014 10 07	54.4	7.64	7.84	-	5.94	112	76	< 3	1.67	-	0.2	5.6	148	< 1	-	< 0.5	41	7.38	53.8	-	< 0.001	< 0.002[a]
	QUL-79-55M	2014 10 07	53.8	7.6	7.84	-	3.59	110	74	< 3	1.73	-	0.193	< 5	147	< 1	-	< 0.5	39	6.9	52.9	-	< 0.001	< 0.002[a]
QUL-87	QUL-87-0M	2014 09 23	51.2	7.99	7.96	15.7	0.29	101	65	< 3	1.86	-	0.109	< 5	54.4	< 1	-	< 0.5	31	6.04	50.3	-	0.0012	< 0.002[a]
	QUL-87-25M	2014 09 23	53.1	7.64	7.93	6.19	1.21	107	68	< 3	1.9	-	0.19	< 5	156	< 1	-	< 0.5	34	6.13	52.2	-	0.0011	**0.0021**
	QUL-87-57M	2014 09 23	53.4	7.44	7.91	5.25	0.53	106	67	< 3	1.91	-	0.21	< 5	141	< 1	-	< 0.5	34	6.33	52.5	-	< 0.001	< 0.002[a]
	QUL-87-0M	2014 09 28	53	8.13	7.69	15.3	0.24	98.9	66	< 3	1.82	-	0.086	< 5	57.5	< 1	-	< 0.5	33	6.06	49.2	-	< 0.001	< 0.002[a]
	QUL-87X-0M	2014 09 28	50.9	8.13	7.63	15.3	0.36	98.7	65	< 3	1.86	-	0.089	< 5	57	< 1	-	< 0.5	35	6.05	49.2	-	< 0.001	< 0.002[a]
	QA/QC RPD %		4	0	< 1	0	*	< 1	2	*	*	-	*	*	< 1	*	-	*	*	< 1	0	-	*	*
	QUL-87-40M	2014 09 28	53	7.48	7.61	5.4	0.56	102	68	< 3	1.93	-	0.155	< 5	149	< 1	-	< 0.5	36	6.13	51.3	-	< 0.001	< 0.002[a]
	QUL-87-50M	2014 09 28	52.4	7.43	7.49	5.3	0.46	100	72	< 3	2.18	-	0.161	< 5	153	< 1	-	< 0.5	35	6.14	50.1	-	< 0.001	< 0.002[a]
	QUL-87-0M	2014 09 30	51.6	8.21	7.03	14.7	0.35	103	61	< 3	2.05	-	0.143	< 5	57.1	< 1	-	< 0.5	35	6.03	49.5	-	< 0.001	< 0.002[a]
	QUL-87-40M	2014 09 30	54.1	7.71	7.03	5.4	0.73	107	65	< 3	1.96	-	0.201	< 5	150	< 1	-	< 0.5	36	6.14	51.6	-	< 0.001	< 0.002[a]
	QUL-87-50M	2014 09 30	53.2	7.7	7.06	5.3	0.58	108	62	< 3	1.93	-	0.211	< 5	154	< 1	-	< 0.5	36	6.11	51.8	-	< 0.001	< 0.002[a]
	QUL-87-0M	2014 10 06	51.5	7.98	7.87	-	0.58	102	67	< 3	1.91	-	0.126	< 5	57.9	< 1	-	< 0.5	35	6.09	49.9	-	< 0.001	< 0.002[a]
	QUL-87-40M	2014 10 06	53.9	7.57	7.79	-	1.56	107	68	< 3	1.92	-	0.313	< 5	153	< 1	-	< 0.5	38	6.38	51.4	-	< 0.001	< 0.002[a]
	QUL-87X-40M	2014 10 06	54.1	7.57	7.8	-	1.79	107	70	< 3	2.04	-	0.196	< 5	152	< 1	-	< 0.5	38	6.38	51	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	-	14	0	3	*	*	-	*	*	< 1	*	-	*	*	0	< 1	-	*	*
	QUL-87-50M	2014 10 06	53.9	7.5	7.8	-	2.03	108	72	< 3	1.96	-	0.205	< 5	158	< 1	-	< 0.5	37	6.49	51.8	-	< 0.001	< 0.002[a]
QUL-105	QUL-105	2014 09 22	48.7	-	7.93	-	0.3	102	67	< 3	1.78	-	0.126	< 5	50.5	< 1	-	< 0.5	34	6.03	48.3	-	< 0.001	< 0.002[a]
	QUL-105X	2014 09 22	48.2	-	7.92	-	0.28	102	66	< 3	1.85	-	0.119	< 5	51.7	< 1	-	< 0.5	34	6.01	48.1	-	< 0.001	< 0.002[a]
	QA/QC RPD %		1	-	< 1	-	*	0	2	*	*	-	*	*	2	*	-	*	*	< 1	< 1	-	*	*
	QUL-105-TAP	2014 09 22	111	-	7.76	-	0.71	252	169	< 3	< 0.5	-	0.285	< 5	292	< 1	-	18.7	59	9.9	92.8	-	< 0.001	< 0.002[a]

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-66A	QUL-66A-0M	2014 09 25	8.3	17.5	< 30	1.89	0.216	0.45	0.781	< 0.1	< 0.1	4.79	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.6	< 0.05	0.7	-	0.233	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.137	< 1	< 3
	QUL-66AX-0M	2014 09 25	7.8	17.5	< 30	1.9	0.257	0.457	0.802	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	0.76	-	0.22	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QA/QC RPD %		*	0	*	< 1	*	2	3	*	*	< 1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	2	*	*
	QUL-66A-40M	2014 09 25	12.8	22.5	< 30	2.46	41.8	0.982	3.12	0.23	0.63	14.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.1	< 0.05	0.94	-	5.04	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.534	< 1	< 3
	QUL-66A-85M	2014 09 25	17	24	< 30	2.61	63.9	1.15	3.75	0.29	0.78	17.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	7.15	< 0.05	0.97	-	6.36	< 0.5	0.55	< 0.01	< 0.01	< 10	0.656	< 1	< 3
	QUL-66A-0M	2014 09 27	9	17.7	< 30	1.92	0.274	0.45	0.802	< 0.1	< 0.1	5.06	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.67	< 0.05	0.85	-	0.256	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	4.2
	QUL-66A-40M	2014 09 27	13.6	22.8	< 30	2.49	44.9	1.06	3.4	0.26	0.67	15.1	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.53	< 0.05	1.11	-	5.75	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.619	< 1	< 3
	QUL-66A-80M	2014 09 27	15.9	24.1	< 30	2.63	62.8	1.16	3.89	0.29	0.8	17.3	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.24	< 0.05	1.2	-	6.57	< 0.5	0.55	< 0.01	< 0.01	< 10	0.691	1	< 3
	QUL-66A-0M	2014 10 01	9	17.1	< 30	1.84	0.125	0.462	0.85	< 0.1	< 0.1	4.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.61	< 0.05	0.63	-	0.273	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-66A-40M	2014 10 01	**53**	21.1	< 30	2.3	33.8	0.977	3.03	0.19	0.56	13.9	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.31	< 0.05	0.82	-	4.62	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.493	< 1	< 3
	QUL-66A-80M	2014 10 01	**73.2**	22.8	< 30	2.48	58.4	1.21	4.09	0.29	0.87	16.8	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.91	< 0.05	0.9	-	6.85	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.689	1.1	< 3
QUL-79	QUL-79-0M	2014 09 22	9.8	16.4	< 30	1.72	0.197	0.429	0.789	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.61	-	0.231	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-79-30M	2014 09 22	7.8	17.9	< 30	1.95	6.19	0.542	1.3	< 0.1	0.18	6.92	< 0.1	< 10	< 0.01	< 0.5	< 0.1	2.06	< 0.05	0.74	-	1.13	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.222	< 1	< 3
	QUL-79-58M	2014 09 22	6.4	18.2	< 30	1.96	4.95	0.525	1.22	< 0.1	0.14	6.44	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.45	< 0.05	0.73	-	0.898	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.21	< 1	< 3
	QUL-79-0M	2014 09 26	8	17.5	< 30	1.9	0.233	0.436	0.782	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	0.86	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-79-40M	2014 09 26	4.7	18.3	< 30	2.03	0.208	0.464	0.878	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.58	< 0.05	1	-	0.259	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-79-55M	2014 09 26	5.5	18.7	< 30	2.07	0.925	0.484	0.94	< 0.1	0.1	5.11	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.72	< 0.05	0.98	-	0.366	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-79-0M	2014 09 30	8.3	17.5	< 30	1.9	0.114	0.453	0.814	< 0.1	< 0.1	4.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.73	-	0.266	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-79-20M	2014 09 30	6.1	19	< 30	2.11	4.03	0.541	1.23	< 0.1	0.17	6.62	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.92	< 0.05	1	-	0.998	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.216	< 1	< 3
	QUL-79-40M	2014 09 30	4.5	18.3	< 30	2.05	0.275	0.482	0.922	< 0.1	< 0.1	5.02	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05	0.92	-	0.322	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.164	< 1	< 3
	QUL-79-50M	2014 09 30	4.8	18.4	< 30	2.04	1.05	0.483	0.976	< 0.1	< 0.1	5.15	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.83	< 0.05	1.04	-	0.423	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.17	< 1	< 3
	QUL-79-0M	2014 10 04	6.9	17.5	< 30	1.94	0.107	0.435	0.785	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.262	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-79-40M	2014 10 04	6.1	16.7	< 30	1.88	4.39	0.599	1.32	< 0.1	0.17	7.04	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.21	< 0.05	0.82	-	1.08	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.138	< 1	< 3
	QUL-79-0M	2014 10 07	8.1	16.9	< 30	1.8	0.143	0.455	0.824	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QUL-79-40M	2014 10 07	6.4	18.5	< 30	2.01	3.51	0.545	1.19	< 0.1	0.17	6.29	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.41	< 0.05	0.97	-	0.848	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.205	< 1	< 3
	QUL-79-55M	2014 10 07	6	18.3	< 30	1.99	1.78	0.526	1.07	< 0.1	0.12	5.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.2	< 0.05	0.7	-	0.554	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.178	< 1	< 3
QUL-87	QUL-87-0M	2014 09 23	8.2	17.4	< 30	1.91	0.193	0.43	0.821	< 0.1	< 0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.65	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-87-25M	2014 09 23	6.8	17.9	< 30	2.04	0.442	0.473	0.98	< 0.1	0.11	5.38	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.03	< 0.05	0.86	-	0.34	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QUL-87-57M	2014 09 23	5.6	18	< 30	2.07	0.258	0.474	0.969	< 0.1	< 0.1	5.14	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.78	< 0.05	0.72	-	0.27	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.133	< 1	< 3
	QUL-87-0M	2014 09 28	8.3	18	< 30	1.97	0.185	0.441	0.793	< 0.1	< 0.1	4.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.63	-	0.23	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-87X-0M	2014 09 28	8.9	17.3	< 30	1.88	0.15	0.447	0.791	< 0.1	< 0.1	4.69	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.234	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.147	< 1	< 3
	QA/QC RPD %		*	4	*	5	*	1	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	3	*	*
	QUL-87-40M	2014 09 28	5.5	17.9	< 30	2.02	0.241	0.48	0.909	< 0.1	< 0.1	4.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.59	< 0.05	0.9	-	0.282	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-87-50M	2014 09 28	5.8	17.7	< 30	2	0.203	0.479	0.908	< 0.1	0.1	5.01	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.56	< 0.05	0.98	-	0.275	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-87-0M	2014 09 30	8	17.5	< 30	1.91	0.112	0.447	0.807	< 0.1	< 0.1	4.71	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-87-40M	2014 09 30	5.2	18.3	< 30	2.06	0.218	0.482	0.927	< 0.1	< 0.1	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.63	< 0.05	1.07	-	0.299	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-87-50M	2014 09 30	5	17.9	< 30	2.04	0.181	0.476	0.918	< 0.1	< 0.1	4.82	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.57	< 0.05	0.97	-	0.3	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-87-0M	2014 10 06	7.9	17.6	< 30	1.87	0.147	0.432	0.858	< 0.1	< 0.1	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.68	-	0.249	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-87-40M	2014 10 06	5.7	18.3	< 30	2.02	0.644	0.468	0.986	< 0.1	0.1	5.18	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	0.72	-	0.376	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-87X-40M	2014 10 06	6	18.3	< 30	2.01	0.784	0.477	0.99	< 0.1	< 0.1	5.28	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.69	-	0.366	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.148	< 1	< 3
	QA/QC RPD %		*	0	*	< 1	20	2	< 1	*	*	2	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	1	*	*
	QUL-87-50M	2014 10 06	5.3	18.3	< 30	2.01	0.894	0.477	1.01	< 0.1	0.12	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.94	< 0.05	0.73	-	0.43	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
QUL-105	QUL-105	2014 09 22	10.5	16.6	< 30	1.75	0.591	0.437	0.769	< 0.1	0.12	4.78	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.69	-	0.253	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-105X	2014 09 22	10.3	16.4	< 30	1.74	0.632	0.435	0.773	< 0.1	0.12	4.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.52	< 0.05	0.7	-	0.261	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.141	< 1	< 3
	QA/QC RPD %		*	1	*	< 1	7	< 1	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	2	*	*
	QUL-105-TAP	2014 09 22	< 3	36.9	< 30	4.62	1.03	0.669	5.75	0.1	0.13	6.01	< 0.1	27	< 0.01	< 0.5	< 0.1	5.25	0.09	< 0.5	-	0.172	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.022	< 1	4.3

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Total Metals																														
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]		1,000	n/a	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-66A	QUL-66A-0M	2014 09 25	60.7	< 0.1	0.11	5.43	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	1.45	56	< 0.05	0.62	1,940	2.02	-	0.306	< 0.5	474	< 0.5	1,530	< 0.01	831	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-66AX-0M	2014 09 25	46.4	< 0.1	0.11	5.3	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	1.14	45	< 0.05	0.6	1,890	1.78	-	0.265	< 0.5	458	< 0.5	1,490	< 0.01	808	< 0.01	< 0.1	< 10	0.152	< 1	< 3
	QA/QC RPD %		27	*	*	2	*	*	*	*	2	*	*	*	*	*	*	3	*	-	14	*	3	*	3	*	3	*	*	*	9	*	*
	QUL-66A-40M	2014 09 25	***2,920***	0.28	1.37	81.8	< 0.1	< 0.5	10	0.017	23,100	**1.3**	0.91	**52.9**	***1,360***	0.934	1.85	3,080	***88.4***	-	5.65	1.38	2,460	< 0.5	8,510	0.02	3,800	0.012	< 0.1	107	0.648	5	5.5
	QUL-66A-85M	2014 09 25	***3,720***	0.37	1.73	105	< 0.1	< 0.5	11	0.022	24,500	**1.67**	1.17	**69.2**	***1,760***	1.18	2.07	3,380	***124***	-	6.88	1.66	2,930	0.59	10,200	0.027	4,540	0.015	< 0.1	139	0.784	**6.7**	6.7
	QUL-66A-0M	2014 09 27	35.8	< 0.1	0.12	5.45	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	1.14	35	< 0.05	0.85	1,930	1.59	-	0.283	< 0.5	466	< 0.5	1,450	< 0.01	834	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QUL-66A-40M	2014 09 27	***2,500***	0.28	1.25	76.1	< 0.1	< 0.5	10	0.017	22,300	**1.35**	0.74	**49.4**	***1,070***	0.942	1.89	2,870	***82.2***	-	5.57	1.2	2,320	< 0.5	7,540	0.016	3,830	< 0.01	< 0.1	82	0.662	4.3	4.7
	QUL-66A-80M	2014 09 27	***3,540***	0.36	1.66	102	< 0.1	< 0.5	11	0.02	24,500	**1.53**	1.07	**66.1**	***1,530***	1.22	2.17	3,300	***117***	-	6.88	1.5	3,010	0.59	10,000	0.023	4,680	0.013	0.13	124	0.819	**6.1**	5.9
	QUL-66A-0M	2014 10 01	38.9	< 0.1	0.12	5.34	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	1.21	31	< 0.05	0.51	1,900	1.7	-	0.254	< 0.5	465	< 0.5	1,450	< 0.01	858	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QUL-66A-40M	2014 10 01	***1,670***	0.25	1.02	50.8	< 0.1	< 0.5	< 10	0.013	21,500	0.78	0.54	**37.9**	***781***	0.664	1.45	2,640	***63.1***	-	4.58	0.92	1,690	< 0.5	5,310	0.015	3,250	0.011	< 0.1	60	0.538	3.1	3.6
	QUL-66A-80M	2014 10 01	***2,660***	0.32	1.55	78.5	< 0.1	< 0.5	10	0.02	23,900	**1.12**	0.87	**62.1**	***1,300***	1.03	1.81	3,080	***105***	-	6.84	1.36	2,400	0.55	7,820	0.017	4,510	0.011	0.12	99	0.756	5	4.9
QUL-79	QUL-79-0M	2014 09 22	14.5	< 0.1	< 0.1	4.76	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.67	1,740	0.568	-	0.251	< 0.5	436	< 0.5	1,340	< 0.01	802	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-79-30M	2014 09 22	***452***	< 0.1	0.32	17.8	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	0.13	**9.6**	206	0.163	0.93	2,050	15.2	-	1.23	< 0.5	764	< 0.5	2,660	< 0.01	1,440	< 0.01	< 0.1	16	0.24	< 1	< 3
	QUL-79-58M	2014 09 22	***292***	< 0.1	0.25	13.5	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**6.86**	126	0.141	0.87	2,020	10.6	-	0.968	< 0.5	661	< 0.5	2,320	< 0.01	1,280	< 0.01	< 0.1	11	0.228	< 1	< 3
	QUL-79-0M	2014 09 26	21.6	< 0.1	0.11	4.94	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.76	< 30	< 0.05	0.67	1,910	1.42	-	0.267	< 0.5	437	< 0.5	1,400	< 0.01	792	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-79-40M	2014 09 26	29.1	< 0.1	< 0.1	5.24	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	0.82	< 30	< 0.05	0.8	2,010	1.34	-	0.27	< 0.5	456	< 0.5	1,650	< 0.01	883	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-79-55M	2014 09 26	54.4	< 0.1	0.11	6.4	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	2.04	< 30	< 0.05	0.8	2,060	2.74	-	0.405	< 0.5	499	< 0.5	1,740	< 0.01	971	< 0.01	< 0.1	< 10	0.166	< 1	< 3
	QUL-79-0M	2014 09 30	25.5	< 0.1	0.12	5.12	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.85	< 30	< 0.05	0.77	1,900	1.35	-	0.273	< 0.5	447	< 0.5	1,410	< 0.01	817	< 0.01	< 0.1	< 10	0.155	< 1	< 3
	QUL-79-20M	2014 09 30	***376***	< 0.1	0.27	15.4	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	0.11	**7.85**	178	0.132	0.95	2,180	12.1	-	1.08	< 0.5	732	< 0.5	2,640	< 0.01	1,300	< 0.01	< 0.1	16	0.235	< 1	< 3
	QUL-79-40M	2014 09 30	41.2	< 0.1	0.1	5.54	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	1.12	< 30	< 0.05	0.91	2,060	1.86	-	0.305	< 0.5	480	< 0.5	1,720	< 0.01	915	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-79-50M	2014 09 30	***106***	< 0.1	0.14	7.32	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**2.42**	55	< 0.05	0.85	2,070	3.58	-	0.423	< 0.5	535	< 0.5	1,900	< 0.01	993	< 0.01	< 0.1	< 10	0.174	< 1	< 3
	QUL-79-0M	2014 10 04	19.2	< 0.1	0.11	5.08	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.73	< 30	< 0.05	0.63	1,930	1.2	-	0.336	< 0.5	451	< 0.5	1,390	< 0.01	848	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QUL-79-40M	2014 10 04	***385***	< 0.1	0.25	14.8	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**6.1**	150	0.094	0.87	2,110	10	-	1.03	< 0.5	710	< 0.5	2,520	< 0.01	1,290	< 0.01	< 0.1	15	0.212	< 1	< 3
	QUL-79-0M	2014 10 07	19	< 0.1	0.11	5	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.73	< 30	< 0.05	0.52	1,830	1.14	-	0.278	< 0.5	455	< 0.5	1,380	< 0.01	825	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-79-40M	2014 10 07	***213***	< 0.1	0.22	11.3	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**6.01**	96	0.098	0.63	1,980	9.15	-	0.892	< 0.5	620	< 0.5	2,100	< 0.01	1,170	< 0.01	< 0.1	10	0.218	< 1	< 3
	QUL-79-55M	2014 10 07	***170***	< 0.1	0.18	9.7	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	**4.06**	75	0.147	0.68	1,990	6.11	-	0.633	< 0.5	586	< 0.5	2,010	< 0.01	1,090	< 0.01	< 0.1	< 10	0.194	< 1	< 3
QUL-87	QUL-87-0M	2014 09 23	13.8	< 0.1	< 0.1	5.05	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.59	< 30	< 0.05	0.64	1,920	0.807	-	0.333	< 0.5	438	< 0.5	1,420	< 0.01	846	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-87-25M	2014 09 23	63.6	< 0.1	0.16	6.58	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	1.95	43	< 0.05	0.71	2,080	3.05	-	0.405	< 0.5	502	< 0.5	1,850	< 0.01	1,010	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-87-57M	2014 09 23	24.8	< 0.1	0.12	5.57	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.03	< 30	< 0.05	0.77	2,110	1.39	-	0.303	< 0.5	478	< 0.5	1,920	< 0.01	981	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-87-0M	2014 09 28	13.7	< 0.1	< 0.1	4.65	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.57	< 30	< 0.05	< 0.5	1,910	0.778	-	0.262	< 0.5	422	< 0.5	1,390	< 0.01	820	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-87X-0M	2014 09 28	13.1	< 0.1	0.11	4.67	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.59	< 30	< 0.05	0.65	1,910	0.777	-	0.278	< 0.5	448	< 0.5	1,410	< 0.01	821	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QA/QC RPD %		*	*	*	< 1	*	*	*	*	2	*	*	*	*	*	*	0	*	-	6	*	6	*	1	*	< 1	*	*	*	8	*	*
	QUL-87-40M	2014 09 28	33.6	< 0.1	0.12	5.62	< 0.1	< 0.5	< 10	< 0.01	18,600	< 0.5	< 0.1	1.1	< 30	< 0.05	0.56	2,150	2.01	-	0.314	< 0.5	490	< 0.5	1,890	< 0.01	954	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-87-50M	2014 09 28	29.9	< 0.1	0.11	5.24	< 0.1	< 0.5	< 10	< 0.01	17,900	0.85	2.47	0.94	45	< 0.05	0.72	2,030	1.7	-	1.78	< 0.5	479	< 0.5	1,820	< 0.01	931	< 0.01	< 0.1	< 10	0.15	< 1	< 3
	QUL-87-0M	2014 09 30	13.6	< 0.1	0.11	4.84	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.55	< 30	< 0.05	0.84	1,880	0.88	-	0.259	< 0.5	450	< 0.5	1,360	< 0.01	821	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-87-40M	2014 09 30	42.8	< 0.1	0.12	5.74	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.16	< 30	< 0.05	0.88	2,070	2	-	0.31	< 0.5	492	< 0.5	1,840	< 0.01	940	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-87-50M	2014 09 30	35.1	< 0.1	0.12	5.55	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	1.01	< 30	< 0.05	0.91	2,050	1.76	-	0.304	< 0.5	492	< 0.5	1,850	< 0.01	933	< 0.01	< 0.1	< 10	0.154	< 1	3.4
	QUL-87-0M	2014 10 06	15.2	< 0.1	0.11	4.89	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.71	< 30	< 0.05	< 0.5	1,860	1.04	-	0.28	< 0.5	430	< 0.5	1,380	< 0.01	812	< 0.01	< 0.1	< 10	0.148	< 1	< 3
	QUL-87-40M	2014 10 06	79.2	< 0.1	0.13	6.85	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	2.04	43	< 0.05	< 0.5	2,000	3.19	-	0.413	< 0.5	488	< 0.5	1,920	< 0.01	972	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-87X-40M	2014 10 06	76	< 0.1	0.13	6.39	< 0.1	< 0.5	< 10	< 0.01	16,800	< 0.5	< 0.1	2.03	43	< 0.05	< 0.5	1,870	3.14	-	0.396	< 0.5	454	< 0.5	1,790	< 0.01	921	< 0.01	< 0.1	< 10	0.145	< 1	< 3
	QA/QC RPD %		4	*	*	7	*	*	*	*	6	*	*	*	*	*	*	7	*	-	4	*	7	*	7	*	5	*	*	*	6	*	*
	QUL-87-50M	2014 10 06	92.9	< 0.1	0.15	7.12	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	**2.38**	52	< 0.05	0.54	1,930	3.6	-	0.454	< 0.5	472	< 0.5	1,920	< 0.01	970	< 0.01	< 0.1	< 10	0.16	< 1	< 3
QUL-105	QUL-105	2014 09 22	18.1	< 0.1	0.13	4.95	< 0.1	< 0.5	< 10	< 0.01	17,100	< 0.5	< 0.1	0.7	< 30	< 0.05	0.55	1,830	1.28	-	0.288	< 0.5	463	< 0.5	1,420	< 0.01	818	< 0.01	< 0.1	< 10	0.15	< 1	< 3
	QUL-105X	2014 09 22	19.3	< 0.1	0.13	4.88	< 0.1	< 0.5	< 10	< 0.01	16,500	< 0.5	< 0.1	0.68	< 30	< 0.05	0.5	1,760	1.31	-	0.276	< 0.5	454	< 0.5	1,380	< 0.01	806	< 0.01	< 0.1	< 10	0.151	< 1	< 3
	QA/QC RPD %		6	*	*	1	*	*	*	*	4	*	*	*	*	*	*	4	*	-	4	*	2	*	3	*	2	*	*	*	< 1	*	*
	QUL-105-TAP	2014 09 22	< 3	0.14	0.18	6.15	< 0.1	< 0.5	31	< 0.01	37,800	< 0.5	< 0.1	**6**	145	0.245	< 0.5	4,730	2.06	-	0.205	< 0.5	687	< 0.5	5,550	0.011	6,030	< 0.01	< 0.1	< 10	0.027	< 1	5.5

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

			Physical Parameters									Total Inorganics												
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Kjeldahl Nitrogen (N) (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Bromide (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																								
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[i]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[i]	n/a[i]	n/a	500	n/a	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a	n/a
QUL-112	QUL-112-0M	2014 09 24	51.3	7.69	7.06	15.85	0.32	101	65	< 3	1.89	-	0.123	< 5	61.4	< 1	-	< 0.5	30	6.12	52.5	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 09 24	53.1	7.48	7.02	4.19	0.2	106	75	< 3	1.66	-	0.176	< 5	147	< 1	-	< 0.5	35	6.26	54.5	-	< 0.001	< 0.002[a]
	QUL-112X-40M	2014 09 24	54.2	7.48	7.01	4.19	0.18	105	67	< 3	1.67	-	0.181	< 5	146	< 1	-	< 0.5	35	6.27	54.1	-	< 0.001	< 0.002[a]
	QA/QC RPD %		2	0	< 1	0	*	< 1	11	*	*	-	*	*	< 1	*	-	*	*	< 1	< 1	-	*	*
	QUL-112-80M	2014 09 24	53.3	7.53	7.01	3.8	0.15	106	79	< 3	1.67	-	0.177	< 5	146	< 1	-	< 0.5	35	6.32	54.9	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 09 28	52.1	8.12	7.96	14.03	0.34	100	62	< 3	1.93	-	0.115	< 5	65.6	< 1		< 0.5	34	6.19	51.5	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 09 28	54.9	7.45	7.65	4.11	0.24	103	75	< 3	1.58	-	0.159	< 5	147	< 1	-	< 0.5	37	6.27	52.3	-	< 0.001	< 0.002[a]
	QUL-112-80M	2014 09 28	55.2	7.49	7.64	3.76	0.16	105	55	< 3	1.66	-	0.146	< 5	149	< 1	-	< 0.5	37	6.32	52.6	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 10 01	49.4	7.92	7.68	14	0.49	101	64	< 3	1.97	-	0.132	< 5	60.9	< 1	-	< 0.5	35	6.04	49.2	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 01	51.4	7.5	7.63	4	0.29	106	68	< 3	1.67	-	0.189	< 5	148	< 1	-	< 0.5	38	6.2	51.6	-	< 0.001	**0.0021**
	QUL-112-80M	2014 10 01	51.5	7.46	7.66	3.7	0.2	108	69	< 3	1.67	-	0.189	< 5	148	< 1	-	< 0.5	37	6.25	52.4	-	< 0.001	< 0.002[a]
	QUL-112-0M	2014 10 05	51.9	7.93	7.8	-	0.41	101	65	< 3	2.17	-	0.138	< 5	68.4	< 1	-	< 0.5	35	6.21	42.4	-	< 0.001	< 0.002[a]
	QUL-112-40M	2014 10 05	53	7.6	7.85	-	0.57	106	64	< 3	2.01	-	0.191	< 5	147	< 1	-	< 0.5	37	6.21	47.3	-	< 0.001	< 0.002[a]
	QUL-112-80M	2014 10 05	54.4	7.57	7.87	-	0.3	108	67	< 3	1.94	-	0.18	< 5	148	< 1	-	< 0.5	38	6.38	45.4	-	< 0.001	< 0.002[a]
QUL-119	QUL-119-0M	2014 09 24	50.4	8.1	7.06	14.27	0.29	100	72	< 3	1.84	-	0.112	< 5	64.1	< 1	-	< 0.5	33	6.12	51.8	-	< 0.001	< 0.002[a]
	QUL-119-40M	2014 09 24	54	7.65	7.01	4.36	0.3	105	75	< 3	1.73	-	0.18	< 5	147	< 1	-	< 0.5	35	6.22	53.5	-	< 0.001	< 0.002[a]
	QUL-119-80M	2014 09 24	54.6	7.67	7.01	3.75	0.16	107	74	< 3	1.6	-	0.18	< 5	146	< 1	-	< 0.5	35	6.33	54.6	-	< 0.001	< 0.002[a]
	QUL-119-0M	2014 09 28	52.5	8	7.68	14.21	0.24	98.5	56	< 3	1.84	-	0.1	< 5	63.6	< 1	-	< 0.5	37	6.14	49.3	-	< 0.001	< 0.002[a]
	QUL-119-40M	2014 09 28	53.9	7.55	7.64	4.29	0.24	103	70	< 3	1.75	-	0.165	< 5	147	< 1	-	< 0.5	37	6.22	51.7	-	< 0.001	< 0.002[a]
	QUL-119-80M	2014 09 28	55.7	7.55	7.64	3.71	0.28	105	71	< 3	1.67	-	0.151	< 5	149	< 1	-	< 0.5	36	6.35	52.5	-	< 0.001	< 0.002[a]
	QUL-119-0M	2014 10 05	51.1	7.92	7.87	-	0.52	102	65	< 3	2.07	-	0.126	< 5	68.5	< 1	-	< 0.5	36	6.21	44.3	-	< 0.001	< 0.002[a]
	QUL-119X-0M	2014 10 05	51.6	7.92	7.9	-	0.44	103	67	< 3	2.06	-	0.126	< 5	69.9	< 1	-	< 0.5	37	6.21	44.2	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	-	*	< 1	3	*	*	-	*	*	2	*	-	*	*	0	< 1	-	*	*
	QUL-119-40M	2014 10 05	53.9	7.6	7.86	-	1.69	108	65	< 3	2.19	-	0.192	< 5	150	< 1	-	< 0.5	36	6.46	46.2	-	< 0.001	< 0.002[a]
	QUL-119-80M	2014 10 05	54.9	7.56	7.85	-	0.53	108	67	< 3	1.99	-	0.181	< 5	149	< 1	-	< 0.5	37	6.41	49.2	-	< 0.001	< 0.002[a]
QUL-120	QUL-120-0M	2014 09 24	51	8.07	7.06	14.96	0.27	101	71	< 3	1.84	-	0.122	< 5	60.1	< 1	-	< 0.5	33	6.13	55.7	-	< 0.001	< 0.002[a]
	QUL-120X-0M	2014 09 24	51.3	8.07	7.06	14.96	0.22	102	72	< 3	1.82	-	0.124	< 5	59.9	< 1	-	< 0.5	33	6.13	56.5	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	0	0	*	< 1	1	*	*	-	*	*	< 1	*	-	*	*	0	1	-	*	*
	QUL-120-40M	2014 09 24	51.6	7.7	7.04	5.59	0.69	102	71	< 3	1.8	-	0.193	< 5	75.5	< 1	-	< 0.5	34	6.14	52.6	-	< 0.001	< 0.002[a]
	QUL-120X-40M	2014 09 24	51.4	7.7	7.03	5.59	0.78	102	70	< 3	1.91	-	0.196	< 5	75.5	< 1	-	< 0.5	34	6.14	55.6	-	< 0.001	< 0.002[a]
	QA/QC RPD %		< 1	0	< 1	0	12	0	1	*	*	-	*	*	0	*	-	*	*	0	6	-	*	*
	QUL-120-80M	2014 09 24	54.7	7.66	7.03	4.09	1.47	107	74	< 3	1.75	-	0.189	< 5	147	< 1	-	< 0.5	36	6.52	54.5	-	< 0.001	< 0.002[a]
	QUL-120-0M	2014 09 28	52	8.11	7.54	15.04	0.26	103	70	< 3	1.86	-	0.091	< 5	59.7	< 1	-	< 0.5	35	6.09	48.1	-	< 0.001	< 0.002[a]
	QUL-120-40M	2014 09 28	54.1	7.55	7.6	4.64	1.41	107	69	< 3	1.86	-	0.152	< 5	148	< 1	-	< 0.5	36	6.38	51.9	-	< 0.001	< 0.002[a]
	QUL-120-80M	2014 09 28	55.8	7.55	7.63	4.14	1.44	107	70	< 3	1.75	-	0.151	< 5	150	< 1	-	< 0.5	39	6.57	52.3	-	< 0.001	< 0.002[a]
	QUL-120-0M	2014 09 30	51.3	7.64	6.88	14.4	0.44	104	57	< 3	1.9	-	0.16	< 5	59.3	< 1	-	< 0.5	34	6.08	53.5	-	< 0.001	**0.0023**
	QUL-120-40M	2014 09 30	54.3	7.4	7	4.3	0.71	108	66	< 3	2.04	-	0.25	< 5	148	< 1	-	< 0.5	36	6.23	52	-	< 0.001	< 0.002[a]
	QUL-120-80M	2014 09 30	54.9	7.5	7.04	4.3	2.52	111	65	< 3	1.88	-	0.225	9.4	154	< 1	-	< 0.5	38	6.69	53.6	-	< 0.001	< 0.002[a]
	QUL-120-0M	2014 10 06	52	7.33	7.73	-	0.55	102	67	< 3	1.8	-	0.126	< 5	67.3	< 1	-	< 0.5	35	6.14	47.4	-	< 0.001	< 0.002[a]
	QUL-120-40M	2014 10 06	55.1	7.65	7.81	-	7.63	112	78	3.3	1.79	-	0.193	5.2	148	< 1	-	< 0.5	41	7.65	52.5	-	< 0.001	< 0.002[a]
	QUL-120-80M	2014 10 06	54.1	7.63	7.81	-	3.3	109	70	< 3	1.78	-	0.185	< 5	148	< 1	-	< 0.5	38	6.71	52.2	-	0.0011	< 0.002[a]
QUL-125	QUL-125-TAP	2014 09 22	245	7.44	8.12	10.89	< 0.1	435	248	< 3	0.99	-	0.663	< 5	693	< 1	-	1.26	79	7.84	242	-	0.005	0.007
QUL-126	QUL-126-TAP	2014 09 22	64	7.3	7.85	12.45	0.72	167	106	< 3	0.57	-	0.085	< 5	93.8	< 1	-	2.95	40	6.84	78.1	-	< 0.001	< 0.002[a]
QUL-127	QUL-127-TAP	2014 09 22	105	7.58	8.02	11.49	0.16	252	143	< 3	< 0.5	-	0.182	< 5	188	< 1	-	9.84	40	7.52	115	-	< 0.001	< 0.002[a]
QUL-128	QUL-128-TAP	2014 09 22	276	7.43	8.09	12.21	0.16	563	350	< 3	0.76	-	2.47	< 5	2,720	< 1	-	19.6	37	30.6	253	-	< 0.001	< 0.002[a]
QUL-129	QUL-129-TAP	2014 09 22	67.4	7.38	7.92	12.96	0.52	144	94	< 3	< 0.5	-	0.16	< 5	173	< 1	-	1.88	40	7.23	66.4	-	< 0.001	< 0.002[a]
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	51.7	7.9	7.88	-	0.34	102	63	< 3	2.31	-	0.128	< 5	69.7	< 1	-	< 0.5	35	6.21	44.4	-	< 0.001	< 0.002[a]
	QUL-ZOO-8-40M	2014 10 05	53.1	7.53	7.83	-	0.26	107	63	< 3	2.04	-	0.178	< 5	151	< 1	-	< 0.5	38	6.34	46.3	-	< 0.001	< 0.002[a]
	QUL-ZOO-8-80M	2014 10 05	53.5	7.58	7.87	-	0.27	108	64	< 3	1.94	-	0.179	< 5	147	< 1	-	< 0.5	35	6.39	46.6	-	< 0.001	< 0.002[a]

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																											
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																														
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-112	QUL-112-0M	2014 09 24	9.1	17.5	< 30	1.85	0.221	0.438	0.776	< 0.1	< 0.1	4.51	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	0.055	0.51	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-40M	2014 09 24	5	18	< 30	1.99	0.118	0.467	0.895	< 0.1	< 0.1	4.89	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.98	< 0.05	0.67	-	0.246	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-112X-40M	2014 09 24	5	18.4	< 30	2.02	0.112	0.467	0.9	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.65	-	0.256	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QA/QC RPD %		*	2	*	2	*	0	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	< 1	*	*
	QUL-112-80M	2014 09 24	4.7	18.1	< 30	1.99	0.086	0.471	0.905	< 0.1	< 0.1	4.96	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.61	< 0.05	0.77	-	0.25	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-112-0M	2014 09 28	8.2	17.7	< 30	1.9	0.134	0.429	0.763	< 0.1	0.11	4.69	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.88	-	0.249	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.144	< 1	< 3
	QUL-112-40M	2014 09 28	4.4	18.6	< 30	2.06	0.106	0.458	0.881	< 0.1	< 0.1	4.83	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.89	-	0.226	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-80M	2014 09 28	4.1	18.7	< 30	2.07	0.088	0.463	0.873	< 0.1	< 0.1	4.85	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.89	-	0.242	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-112-0M	2014 10 01	9.1	16.8	< 30	1.8	0.071	0.457	0.824	< 0.1	< 0.1	4.47	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUL-112-40M	2014 10 01	5.9	17.4	< 30	1.92	0.08	0.483	0.921	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.85	-	0.246	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-112-80M	2014 10 01	4.4	17.5	< 30	1.91	0.108	0.482	0.938	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.91	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QUL-112-0M	2014 10 05	8.2	17.7	< 30	1.91	0.14	0.44	0.799	< 0.1	< 0.1	4.7	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.207	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.152	< 1	< 3
	QUL-112-40M	2014 10 05	6.1	17.9	< 30	2	0.116	0.475	0.89	< 0.1	< 0.1	4.97	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.79	-	0.229	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QUL-112-80M	2014 10 05	4.6	18.4	< 30	2.04	0.082	0.472	0.898	< 0.1	< 0.1	4.86	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.84	-	0.21	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	< 3
QUL-119	QUL-119-0M	2014 09 24	8.4	17.1	< 30	1.84	0.126	0.451	0.791	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.67	-	0.254	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-119-40M	2014 09 24	5.2	18.3	< 30	2.03	0.13	0.473	0.905	< 0.1	< 0.1	4.94	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.65	< 0.05	0.73	-	0.263	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUL-119-80M	2014 09 24	4.3	18.5	< 30	2.04	0.085	0.468	0.901	< 0.1	< 0.1	4.93	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.53	< 0.05	0.82	-	0.247	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QUL-119-0M	2014 09 28	9.7	17.9	< 30	1.92	0.134	0.432	0.773	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.87	-	0.225	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.143	< 1	< 3
	QUL-119-40M	2014 09 28	5.4	18.2	< 30	2.04	0.097	0.457	0.874	< 0.1	< 0.1	4.98	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.97	-	0.245	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.146	< 1	< 3
	QUL-119-80M	2014 09 28	4.1	18.8	< 30	2.1	0.132	0.463	0.892	< 0.1	< 0.1	4.95	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.94	-	0.262	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.151	< 1	< 3
	QUL-119-0M	2014 10 05	8.3	17.4	< 30	1.89	0.121	0.445	0.804	< 0.1	< 0.1	4.72	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.71	-	0.202	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.158	< 1	< 3
	QUL-119X-0M	2014 10 05	8.3	17.5	< 30	1.91	0.136	0.441	0.801	< 0.1	< 0.1	4.67	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.51	< 0.05	0.72	-	0.21	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.156	< 1	< 3
	QA/QC RPD %		*	< 1	*	1	*	< 1	< 1	*	*	1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	1	*	*
	QUL-119-40M	2014 10 05	6.2	18.2	< 30	2.05	0.406	0.484	0.949	< 0.1	0.1	5.4	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.77	-	0.334	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.165	< 1	< 3
	QUL-119-80M	2014 10 05	4.3	18.6	< 30	2.06	0.13	0.475	0.898	< 0.1	< 0.1	5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.82	-	0.221	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.159	< 1	< 3
QUL-120	QUL-120-0M	2014 09 24	8.9	17.4	< 30	1.84	0.16	0.431	0.783	< 0.1	< 0.1	4.54	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.69	-	0.234	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3
	QUL-120X-0M	2014 09 24	9.4	17.5	< 30	1.85	0.196	0.429	0.782	< 0.1	< 0.1	4.55	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.73	-	0.229	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.154	< 1	< 3
	QA/QC RPD %		*	< 1	*	< 1	*	< 1	< 1	*	*	< 1	*	*	*	*	*	*	*	*	-	*	*	*	*	*	*	< 1	*	*
	QUL-120-40M	2014 09 24	7.8	17.5	< 30	1.95	0.156	0.475	0.886	< 0.1	0.12	5.59	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1	< 0.05	0.62	-	0.325	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.149	< 1	< 3
	QUL-120X-40M	2014 09 24	7.7	17.4	< 30	1.95	0.226	0.466	0.865	< 0.1	< 0.1	5.48	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.04	< 0.05	0.62	-	0.314	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QA/QC RPD %		*	< 1	*	0	*	2	2	*	*	2	*	*	*	*	*	*	*	*	-	3	*	*	*	*	*	< 1	*	*
	QUL-120-80M	2014 09 24	5.2	18.5	< 30	2.06	0.844	0.48	0.951	< 0.1	< 0.1	5.27	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.92	< 0.05	0.8	-	0.369	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.17	< 1	< 3
	QUL-120-0M	2014 09 28	8.4	17.7	< 30	1.92	0.181	0.424	0.772	< 0.1	< 0.1	4.65	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.9	-	0.241	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.15	< 1	< 3
	QUL-120-40M	2014 09 28	5.6	18.3	< 30	2.07	0.507	0.479	0.93	< 0.1	0.12	5.22	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.76	< 0.05	0.92	-	0.359	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-120-80M	2014 09 28	5.3	18.9	< 30	2.11	0.61	0.476	0.958	< 0.1	0.12	5.36	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.81	< 0.05	1.05	-	0.399	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-120-0M	2014 09 30	7.8	17.4	< 30	1.9	0.096	0.438	0.789	< 0.1	< 0.1	4.76	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	1.1	-	0.265	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.166	< 1	< 3
	QUL-120-40M	2014 09 30	4.9	18.4	< 30	2.05	0.205	0.504	0.921	< 0.1	< 0.1	5.25	< 0.1	< 10	< 0.01	< 0.5	< 0.1	0.86	< 0.05	0.82	-	0.283	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.16	< 1	24.8
	QUL-120-80M	2014 09 30	5.3	18.6	< 30	2.07	1	0.511	1.02	< 0.1	0.11	5.56	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.27	< 0.05	1.09	-	0.517	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.186	< 1	6.9
	QUL-120-0M	2014 10 06	7.5	17.8	< 30	1.86	0.118	0.432	0.805	< 0.1	< 0.1	4.68	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.54	-	0.226	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.14	< 1	< 3
	QUL-120-40M	2014 10 06	7.1	18.7	< 30	2.01	4.02	0.543	1.28	< 0.1	0.18	6.73	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.96	< 0.05	0.7	-	0.997	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.204	< 1	< 3
	QUL-120-80M	2014 10 06	5.5	18.4	< 30	1.98	0.979	0.487	1.02	< 0.1	0.12	5.5	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.28	< 0.05	0.65	-	0.508	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.164	< 1	< 3
QUL-125	QUL-125-TAP	2014 09 22	< 3	77.7	< 30	12.5	0.071	1.18	3.77	0.19	0.76	11.4	< 0.1	37	0.022	1.22	< 0.1	14.7	0.284	2.33	-	1.64	< 0.5	5.79	< 0.01	< 0.01	12	0.991	< 1	13.8
QUL-126	QUL-126-TAP	2014 09 22	< 3	21.9	< 30	2.27	0.818	1.16	8.92	< 0.1	0.16	3.08	< 0.1	< 10	< 0.01	< 0.5	< 0.1	5.28	0.363	< 0.5	-	0.31	0.65	< 0.5	< 0.01	< 0.01	< 10	0.027	< 1	37.7
QUL-127	QUL-127-TAP	2014 09 22	< 3	36.9	< 30	3.15	0.143	1.09	12.3	0.12	0.75	3.84	< 0.1	< 10	< 0.01	< 0.5	< 0.1	1.26	0.303	< 0.5	-	0.253	5.12	< 0.5	< 0.01	< 0.01	< 10	0.05	< 1	14.4
QUL-128	QUL-128-TAP	2014 09 22	< 3	90.1	< 30	12.4	0.644	1.13	15.7	0.16	0.63	2.25	< 0.1	62	< 0.01	< 0.5	0.16	4.72	0.157	2.21	-	0.374	< 0.5	2.18	< 0.01	< 0.01	13	0.295	< 1	4.2
QUL-129	QUL-129-TAP	2014 09 22	< 3	22.9	< 30	2.51	1.01	0.617	1.7	< 0.1	0.36	5.33	< 0.1	< 10	< 0.01	< 0.5	< 0.1	6.16	0.196	0.85	-	0.312	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.091	< 1	14.4
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	8	17.6	< 30	1.89	0.112	0.44	0.803	< 0.1	< 0.1	4.75	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.68	-	0.208	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.153	< 1	< 3
	QUL-ZOO-8-40M	2014 10 05	4.5	18	< 30	2	0.115	0.47	0.892	< 0.1	< 0.1	4.99	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.74	-	0.216	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.157	< 1	< 3
	QUL-ZOO-8-80M	2014 10 05	4	18.1	< 30	2.01	0.09	0.464	0.892	< 0.1	< 0.1	4.81	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	0.8	-	0.221	< 0.5	< 0.5	< 0.01	< 0.01	< 10	0.155	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1a: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																														
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																	
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]		1,000	n/a	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-112	QUL-112-0M	2014 09 24	15.9	< 0.1	< 0.1	4.62	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.61	< 30	< 0.05	< 0.5	1,840	0.716	-	0.239	< 0.5	447	< 0.5	1,340	< 0.01	811	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUL-112-40M	2014 09 24	10	< 0.1	< 0.1	4.98	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	0.52	< 30	< 0.05	0.62	2,010	0.545	-	0.266	< 0.5	476	< 0.5	1,610	< 0.01	915	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-112X-40M	2014 09 24	11.5	< 0.1	< 0.1	4.87	< 0.1	< 0.5	< 10	< 0.01	18,000	< 0.5	< 0.1	0.57	< 30	< 0.05	0.62	2,000	0.609	-	0.264	< 0.5	468	< 0.5	1,610	< 0.01	925	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QA/QC RPD %		*	*	*	2	*	*	*	*	< 1	*	*	*	*	*	*	< 1	*	-	< 1	*	2	*	0	*	1	*	*	*	< 1	*	*
	QUL-112-80M	2014 09 24	8.4	< 0.1	0.1	4.93	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.65	2,000	0.532	-	0.262	< 0.5	474	< 0.5	1,580	< 0.01	925	< 0.01	< 0.1	< 10	0.161	< 1	< 3
	QUL-112-0M	2014 09 28	16.4	< 0.1	< 0.1	4.68	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.81	1,910	0.55	-	0.247	< 0.5	428	< 0.5	1,400	< 0.01	790	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-112-40M	2014 09 28	8.9	< 0.1	< 0.1	4.86	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	0.57	< 30	< 0.05	0.65	2,010	0.451	-	0.264	< 0.5	466	< 0.5	1,610	< 0.01	877	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-112-80M	2014 09 28	8.2	< 0.1	< 0.1	5.03	< 0.1	< 0.5	< 10	< 0.01	18,800	< 0.5	< 0.1	0.58	< 30	< 0.05	0.78	2,090	0.526	-	0.272	< 0.5	487	< 0.5	1,680	< 0.01	934	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-112-0M	2014 10 01	15.4	< 0.1	0.11	4.73	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.55	< 30	< 0.05	0.61	1,860	0.834	-	0.263	< 0.5	462	< 0.5	1,370	0.016	849	0.018	< 0.1	< 10	0.17	< 1	< 3
	QUL-112-40M	2014 10 01	10.6	< 0.1	< 0.1	4.85	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	1,950	0.577	-	0.264	< 0.5	483	< 0.5	1,580	< 0.01	932	< 0.01	< 0.1	< 10	0.164	< 1	< 3
	QUL-112-80M	2014 10 01	8.2	< 0.1	< 0.1	4.68	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.78	1,930	0.515	-	0.253	< 0.5	469	< 0.5	1,560	< 0.01	910	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-112-0M	2014 10 05	14.2	< 0.1	0.12	4.69	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.57	< 30	< 0.05	0.69	1,850	0.686	-	0.231	< 0.5	437	< 0.5	1,330	< 0.01	795	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-112-40M	2014 10 05	18.3	< 0.1	0.12	5.16	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.67	< 30	< 0.05	0.76	1,990	1.01	-	0.248	< 0.5	478	< 0.5	1,610	< 0.01	899	< 0.01	< 0.1	< 10	0.159	< 1	< 3
	QUL-112-80M	2014 10 05	9.9	< 0.1	0.13	5.08	< 0.1	< 0.5	< 10	< 0.01	18,300	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.83	2,040	0.56	-	0.238	< 0.5	488	< 0.5	1,600	< 0.01	931	< 0.01	< 0.1	< 10	0.17	< 1	< 3
QUL-119	QUL-119-0M	2014 09 24	15.5	< 0.1	< 0.1	4.96	< 0.1	< 0.5	< 10	< 0.01	17,300	< 0.5	< 0.1	0.58	< 30	< 0.05	0.57	1,860	0.656	-	0.253	< 0.5	453	< 0.5	1,370	< 0.01	830	< 0.01	< 0.1	< 10	0.163	< 1	< 3
	QUL-119-40M	2014 09 24	15.2	< 0.1	0.1	5.12	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	0.56	< 30	< 0.05	0.67	2,010	0.97	-	0.272	< 0.5	488	< 0.5	1,640	< 0.01	941	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-119-80M	2014 09 24	10.5	< 0.1	< 0.1	5.01	< 0.1	< 0.5	< 10	< 0.01	18,600	< 0.5	< 0.1	0.66	< 30	< 0.05	0.65	2,070	0.578	-	0.261	< 0.5	477	< 0.5	1,630	< 0.01	927	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-119-0M	2014 09 28	14.7	< 0.1	< 0.1	4.62	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.71	1,890	0.645	-	0.244	< 0.5	424	< 0.5	1,380	< 0.01	786	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUL-119-40M	2014 09 28	18	< 0.1	< 0.1	5.01	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.69	< 30	< 0.05	0.81	1,970	1.09	-	0.263	< 0.5	450	< 0.5	1,630	< 0.01	870	< 0.01	< 0.1	< 10	0.154	< 1	< 3
	QUL-119-80M	2014 09 28	16.9	< 0.1	0.1	4.86	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.64	< 30	< 0.05	0.72	1,980	1.04	-	0.269	< 0.5	449	< 0.5	1,610	< 0.01	870	< 0.01	< 0.1	< 10	0.153	< 1	< 3
	QUL-119-0M	2014 10 05	19.5	< 0.1	0.13	5.29	< 0.1	< 0.5	< 10	< 0.01	17,200	< 0.5	< 0.1	0.93	< 30	0.081	0.72	1,870	1	-	1.02	< 0.5	448	< 0.5	1,360	< 0.01	819	< 0.01	< 0.1	< 10	0.16	< 1	< 3
	QUL-119X-0M	2014 10 05	20.2	< 0.1	0.13	4.98	< 0.1	< 0.5	< 10	< 0.01	17,700	< 0.5	< 0.1	0.94	< 30	< 0.05	0.78	1,930	0.83	-	0.227	< 0.5	458	< 0.5	1,390	< 0.01	834	< 0.01	< 0.1	< 10	0.169	< 1	< 3
	QA/QC RPD %		4	*	*	6	*	*	*	*	3	*	*	*	*	*	*	3	*	-	*	*	2	*	2	*	2	*	*	*	6	*	*
	QUL-119-40M	2014 10 05	83	< 0.1	0.17	6.94	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	2.04	41	< 0.05	0.75	2,040	3.42	-	0.328	< 0.5	521	< 0.5	1,810	< 0.01	969	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QUL-119-80M	2014 10 05	14.1	< 0.1	0.12	5.42	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	0.54	< 30	< 0.05	0.82	2,060	0.829	-	0.247	< 0.5	480	< 0.5	1,650	< 0.01	927	< 0.01	< 0.1	< 10	0.165	< 1	< 3
QUL-120	QUL-120-0M	2014 09 24	16.6	< 0.1	< 0.1	4.57	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.61	< 30	< 0.05	0.58	1,850	0.607	-	0.248	< 0.5	434	< 0.5	1,340	< 0.01	809	< 0.01	< 0.1	< 10	0.156	< 1	< 3
	QUL-120X-0M	2014 09 24	15.8	< 0.1	< 0.1	4.59	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	0.59	< 30	< 0.05	0.61	1,860	0.627	-	0.253	< 0.5	448	< 0.5	1,340	< 0.01	830	< 0.01	< 0.1	< 10	0.162	< 1	< 3
	QA/QC RPD %		5	*	*	< 1	*	*	*	*	0	*	*	*	*	*	*	< 1	*	-	*	*	3	*	0	*	3	*	*	*	4	*	*
	QUL-120-40M[k]	2014 09 24	42.7	< 0.1	0.13	6.04	< 0.1	< 0.5	< 10	< 0.01	17,400	< 0.5	< 0.1	1.58	37	< 0.05	0.62	1,970	2.05	-	0.344	< 0.5	476	< 0.5	1,560	< 0.01	908	< 0.01	< 0.1	< 10	0.158	< 1	< 3
	QUL-120X-40M[k]	2014 09 24	40.2	< 0.1	0.13	5.84	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	**58.3**	35	1.85	0.5	1,970	2.05	-	0.322	9.58	479	< 0.5	1,530	< 0.01	881	< 0.01	0.16	< 10	0.161	< 1	**34**
	QA/QC RPD %		6	*	*	3	*	*	*	*	< 1	*	*	*	*	*	*	0	*	-	7	*	< 1	*	2	*	3	*	*	*	2	*	*
	QUL-120-80M	2014 09 24	87.2	< 0.1	0.11	6.85	< 0.1	< 0.5	< 10	< 0.01	18,200	< 0.5	< 0.1	**2.38**	48	< 0.05	0.67	2,060	3.43	-	0.404	< 0.5	530	< 0.5	1,830	< 0.01	1,000	< 0.01	< 0.1	< 10	0.178	< 1	< 3
	QUL-120-0M	2014 09 28	14.2	< 0.1	< 0.1	4.75	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.57	< 30	< 0.05	0.74	1,920	0.752	-	0.248	< 0.5	429	< 0.5	1,390	< 0.01	788	< 0.01	< 0.1	< 10	0.149	< 1	< 3
	QUL-120-40M	2014 09 28	99.1	< 0.1	0.12	7.05	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	**4.79**	54	0.126	0.81	2,090	3.94	-	0.405	< 0.5	510	< 0.5	1,910	< 0.01	946	< 0.01	< 0.1	< 10	0.168	< 1	3
	QUL-120-80M	2014 09 28	83.9	< 0.1	0.12	6.61	< 0.1	< 0.5	< 10	< 0.01	17,800	< 0.5	< 0.1	2.16	42	0.056	0.83	2,030	3.12	-	0.426	< 0.5	489	< 0.5	1,800	< 0.01	937	< 0.01	< 0.1	< 10	0.167	< 1	< 3
	QUL-120-0M	2014 09 30	17.2	< 0.1	0.11	4.84	< 0.1	< 0.5	< 10	< 0.01	17,600	< 0.5	< 0.1	0.66	< 30	< 0.05	0.93	2,030	0.939	-	0.427	< 0.5	448	< 0.5	1,400	< 0.01	813	< 0.01	< 0.1	< 10	0.17	< 1	< 3
	QUL-120-40M	2014 09 30	35.9	< 0.1	0.12	5.45	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	1.01	< 30	< 0.05	0.97	2,050	1.72	-	0.308	< 0.5	488	< 0.5	1,740	< 0.01	909	< 0.01	< 0.1	< 10	0.172	< 1	3.6
	QUL-120-80M	2014 09 30	***140***	< 0.1	0.17	8.05	< 0.1	< 0.5	< 10	< 0.01	18,500	< 0.5	< 0.1	**3.48**	92	0.072	1	2,100	5.06	-	0.538	< 0.5	561	< 0.5	1,990	< 0.01	1,040	< 0.01	< 0.1	< 10	0.192	< 1	6.8
	QUL-120-0M	2014 10 06	15.5	< 0.1	0.1	4.85	< 0.1	< 0.5	< 10	< 0.01	17,500	< 0.5	< 0.1	0.81	< 30	< 0.05	< 0.5	1,850	0.896	-	0.252	0.52	421	< 0.5	1,390	< 0.01	814	< 0.01	< 0.1	< 10	0.144	< 1	6
	QUL-120-40M	2014 10 06	***323***	< 0.1	0.27	14.1	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	0.1	**7.63**	161	0.144	0.59	1,990	11.5	-	1.07	< 0.5	659	< 0.5	2,400	< 0.01	1,280	< 0.01	< 0.1	15	0.217	< 1	< 3
	QUL-120-80M	2014 10 06	***139***	< 0.1	0.15	8.44	< 0.1	< 0.5	< 10	< 0.01	18,100	< 0.5	< 0.1	**3.44**	75	< 0.05	< 0.5	1,990	5.24	-	0.545	< 0.5	521	< 0.5	1,980	< 0.01	1,030	< 0.01	< 0.1	< 10	0.177	< 1	< 3
QUL-125	QUL-125-TAP	2014 09 22	< 3	0.25	0.72	11.4	< 0.1	< 0.5	38	0.023	76,600	**1.28**	< 0.1	6.58	< 30	0.186	1.96	12,300	0.117	-	1.79	< 0.5	1,170	**5.11**	6,230	< 0.01	3,810	< 0.01	< 0.1	12	1.03	< 1	11.3
QUL-126	QUL-126-TAP	2014 09 22	< 3	< 0.1	0.21	3.28	< 0.1	< 0.5	< 10	< 0.01	22,200	< 0.5	< 0.1	**6.46**	126	0.601	< 0.5	2,320	0.767	-	0.343	0.69	1,190	< 0.5	3,140	< 0.01	9,270	< 0.01	< 0.1	< 10	0.034	< 1	**38**
QUL-127	QUL-127-TAP	2014 09 22	< 3	0.13	0.69	3.88	< 0.1	< 0.5	< 10	< 0.01	36,700	< 0.5	< 0.1	3.29	< 30	0.341	< 0.5	3,180	0.158	-	0.28	2.85	1,100	< 0.5	3,480	< 0.01	12,800	< 0.01	< 0.1	< 10	0.057	< 1	10.7
QUL-128	QUL-128-TAP	2014 09 22	< 3	0.19	0.68	2.31	< 0.1	< 0.5	67	< 0.01	91,300	< 0.5	0.14	5.3	< 30	0.185	2.05	12,800	0.627	-	0.45	< 0.5	1,160	1.97	4,810	< 0.01	16,800	< 0.01	< 0.1	14	0.325	< 1	4.6
QUL-129	QUL-129-TAP	2014 09 22	< 3	< 0.1	0.41	5.65	< 0.1	< 0.5	< 10	< 0.01	23,900	< 0.5	< 0.1	**9.06**	59	0.357	0.74	2,640	1.16	-	0.34	< 0.5	642	< 0.5	2,410	< 0.01	1,780	< 0.01	< 0.1	< 10	0.095	< 1	**14.5**
QUL-ZOO-8	QUL-ZOO-8-0M	2014 10 05	15.7	< 0.1	0.12	4.73	< 0.1	< 0.5	< 10	< 0.01	17,000	< 0.5	< 0.1	0.62	< 30	< 0.05	0.7	1,840	0.666	-	0.221	< 0.5	443	< 0.5	1,330	< 0.01	808	< 0.01	< 0.1	< 10	0.157	< 1	< 3
	QUL-ZOO-8-40M	2014 10 05	11.4	< 0.1	0.11	5.01	< 0.1	< 0.5	< 10	< 0.01	17,900	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	1,990	0.624	-	0.225	< 0.5	470	< 0.5	1,590	< 0.01	901	< 0.01	< 0.1	< 10	0.165	< 1	< 3
	QUL-ZOO-8-80M	2014 10 05	8.7	< 0.1	0.13	5.04	< 0.1	< 0.5	< 10	< 0.01	18,400	< 0.5	< 0.1	< 0.5	< 30	< 0.05	0.76	2,050	0.432	-	0.241	< 0.5	481	< 0.5	1,600	< 0.01	934	< 0.01	< 0.1	< 10	0.164	< 1	< 3

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\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Elevated results suspected to be due to lab error. Re-analysis is in progress.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

			Physical Parameters																	
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (pH)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Guidelines																				
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	Change of 8	n/a	n/a	Change of 25	n/a	n/a	5,680-18,400[d]	32,800	60-600[d]	32,800[f]	600	988.2-1742[d]	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	Change of 2	n/a	n/a	Change of 5	+20% of median background	n/a	1,090-1,770[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	n/a[i]	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
QUL-EQUIPMENT BLANK	KEM1B	2014 09 22	< 0.5	***5.92***	0.15	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	DI-BLANK	2014 09 25	< 0.5	***5.45***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER-BLANK	2014 09 25	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DI-BLANK	2014 09 29	< 0.5	***5.68***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER BLANK	2014 09 29	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B-BLANK	2014 09 29	< 0.5	***5.36***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	DI-BLANK	2014 10 06	-	***5.71***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	FILTER-BLANK	2014 10 06	< 0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 06	-	***5.33***	0.29	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
QUL-FIELD BLANK	QUL-21-FB	2014 09 25	< 0.5	***5.83***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-2-FB	2014 09 30	< 0.5	***5.57***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-23-FB	2014 10 01	< 0.5	***5.41***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
	QUL-ZOO-8-FB	2014 10 05	< 0.5	***5.47***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]
QUL-TRIP BLANK	TRIP-BLANK	2014 10 06	-	***5.34***	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	11.1	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]

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- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.
	Concentration greater than 5x laboratory detection limit

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																									
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																													
BCWQG Aquatic Life (AW)[b,c]			30-100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50-1000[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
QUL-EQUIPMENT BLANK	KEM1B	2014 09 22	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	DI-BLANK	2014 09 29	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	FILTER BLANK	2014 09 29	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	KEM1B-BLANK	2014 09 29	< 3	< 0.05	< 30	< 0.1	0.054	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	FILTER-BLANK	2014 10 06	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	KEM1B	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QUL-FIELD BLANK	QUL-21-FB	2014 09 25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUL-2-FB	2014 09 30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	QUL-23-FB	2014 10 01	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
	QUL-ZOO-8-FB	2014 10 05	< 3	< 0.05	< 30	< 0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
QUL-TRIP BLANK	TRIP-BLANK	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All terms defined within the body of SNC-Lavalin's report (available upon request).
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- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.
Concentration greater than 5x laboratory detection limit

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.

TABLE 1b: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (BLANKS) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																													
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silicon (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Guidelines																																
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.016-0.079[d]	n/a	1 (Cr(+6))	110	6.0-27.9[d]	1,000	27.3-297.3[d]	870	n/a	1001-3582[d]		2,000	25-150[d]	373,000-432,000	2	n/a	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-172.5[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	2-11[d]	n/a	4.4-14.9[d]	14[i]	n/a	791.1-1819[d]	Methyl mercury analysis in progress	1,000	n/a	n/a	n/a	n/a	0.05-1.5	n/a	n/a	n/a	n/a	n/a	n/a	7.5-147[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
QUL-EQUIPMENT BLANK	KEM1B	2014 09 22	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 09 25	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FILTER-BLANK	2014 09 25	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 09 29	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FILTER BLANK	2014 09 29	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	KEM1B-BLANK	2014 09 29	< 3	< 0.1	< 0.1	0.054	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	0.104	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	DI-BLANK	2014 10 06	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	FILTER-BLANK	2014 10 06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	KEM1B	2014 10 06	< 3	< 0.1	< 0.1	0.102	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	0.68	< 30	< 0.05	< 0.5	< 100	0.194	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
QUL-FIELD BLANK	QUL-21-FB	2014 09 25	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-2-FB	2014 09 30	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-23-FB	2014 10 01	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
	QUL-ZOO-8-FB	2014 10 05	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
QUL-TRIP BLANK	TRIP-BLANK	2014 10 06	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 100	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 50	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.
Concentration greater than 5x laboratory detection limit

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and/or either Temperature or Hardness or chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.

TABLE 1e: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (Chlorophyll A) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Misc. Organic Substances Chlorophyll A (ug/L)
BC Standards			
BCWQG Aquatic Life (AW)[a,b]			$50mg/m^2/100mg/m^2$
BCWQG Drinking Water (DW)[a,b]			n/a
Canadian Drinking Water Quality (DW)[c]			n/a
QUL-2	QUL-2-0M	2014 09 22	0.53
	QUL-2X-0M	2014 09 22	0.351
	QA/QC RPD %		41
	QUL-2-25M	2014 09 22	0.14
	QUL-2X-25M	2014 09 22	0.193
	QA/QC RPD %		32
	QUL-2-47M	2014 09 22	< 0.01
QUL-2	QUL-2-0M	2014 09 30	0.736
	QUL-2-40M	2014 09 30	0.059
QUL-2a	QUL-2A-0M	2014 09 25	0.367
	QUL-2A-40M	2014 09 25	0.12
	QUL-2A-60M	2014 09 25	< 0.01
	QUL-2A-0M	2014 09 30	0.835
	QUL-2A-40M	2014 09 30	0.194
QUL-18	QUL-18-0M	2014 09 25	0.196
	QUL-18-40M	2014 09 25	0.084
	QUL-18-100M	2014 09 25	< 0.01
QUL-21	QUL-21-0M	2014 09 23	0.409
	QUL-21X-0M	2014 09 23	0.496
	QA/QC RPD %		19
	QUL-21-20M	2014 09 23	0.362
	QUL-21-47M	2014 09 23	0.051
	QUL-21-0M	2014 09 29	0.42
	QUL-21-40M	2014 09 29	0.089
	QUL-21X-40M	2014 09 29	0.127
	QA/QC RPD %		35
	QUL-21-45M	2014 09 29	< 0.01
QUL-21a	QUL-21A-0M	2014 09 25	0.243
	QUL-21A-40M	2014 09 25	< 0.01
	QUL-21AX-40M	2014 09 25	< 0.01
	QA/QC RPD %		*
	QUL-21A-65M	2014 09 25	< 0.01
	QUL-21A-0M	2014 09 27	0.106
	QUL-21A-40M	2014 09 27	< 0.01
	QUL-21A-60M	2014 09 27	< 0.01
	QUL-21AX-60M	2014 09 27	< 0.01
	QA/QC RPD %		*
QUL-22	QUL-22-0M	2014 09 23	0.395
	QUL-22-5M	2014 09 23	0.791
	QUL-22-9M	2014 09 23	0.601
	QUL-22-0M	2014 09 26	0.095
	QUL-22X-0M	2014 09 26	0.198
	QA/QC RPD %		70
QUL-31a	QUL-31A-0M	2014 09 27	0.167
	QUL-31A-40M	2014 09 27	< 0.01
	QUL-31A-100M	2014 09 27	< 0.01
QUL-40	QUL-40-0M	2014 09 22	0.344
	QUL-40-50M	2014 09 22	0.151
	QUL-40-98M	2014 09 22	0.058
	QUL-40-0M	2014 09 26	0.226
	QUL-40-40M	2014 09 26	0.059
	QUL-40-80M	2014 09 26	< 0.01
	QUL-40A-0M	2014 09 27	0.407
	QUL-40-0M	2014 09 29	0.922
	QUL-40-40M	2014 09 29	0.054
	QUL-40-80M	2014 09 29	< 0.01
QUL-40A	QUL-40A-40M	2014 09 27	0.054
	QUL-40A-100M	2014 09 27	0.065
QUL-66	QUL-66-0M	2014 09 23	0.295
	QUL-66-15M	2014 09 23	0.559
	QUL-66-50M	2014 09 23	< 0.01
	QUL-66-0M	2014 09 29	0.931
	QUL-66-40M	2014 09 29	< 0.01
	QUL-66-50M	2014 09 29	< 0.01
QUL-66A	QUL-66A-0M	2014 09 25	0.133
	QUL-66AX-0M	2014 09 25	0.316
	QA/QC RPD %		82
	QUL-66A-40M	2014 09 25	< 0.01
	QUL-66A-85M	2014 09 25	< 0.01
	QUL-66A-0M	2014 09 27	0.248
	QUL-66A-40M	2014 09 27	< 0.01
	QUL-66A-80M	2014 09 27	< 0.01

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* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

[b] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

[c] Health Canada Drinking Water Guidelines, 2012.

TABLE 1e: Summary of Analytical Results for Mount Polley, Quesnel Lake and River - Surface Water (Chlorophyll A) DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Misc. Organic Substances Chlorophyll A (ug/L)
BC Standards			
BCWQG Aquatic Life (AW)[a,b]			$50mg/m^2/100mg/m^2$
BCWQG Drinking Water (DW)[a,b]			n/a
Canadian Drinking Water Quality (DW)[c]			n/a
QUL-79	QUL-79-0M	2014 09 22	0.352
	QUL-79-30M	2014 09 22	0.154
	QUL-79-58M	2014 09 22	< 0.01
	QUL-79-0M	2014 09 26	0.769
	QUL-79-40M	2014 09 26	< 0.01
	QUL-79-55M	2014 09 26	0.062
	QUL-79-0M	2014 09 30	0.453
	QUL-79-20M	2014 09 30	0.156
	QUL-79-40M	2014 09 30	0.092
	QUL-79-50M	2014 09 30	0.079
QUL-87	QUL-87-0M	2014 09 23	0.426
	QUL-87-25M	2014 09 23	0.136
	QUL-87-57M	2014 09 23	0.103
	QUL-87-0M	2014 09 28	0.317
	QUL-87X-0M	2014 09 28	0.098
	QA/QC RPD %		106
	QUL-87-40M	2014 09 28	0.088
	QUL-87-50M	2014 09 28	0.064
	QUL-87-0M	2014 09 30	0.722
	QUL-87-40M	2014 09 30	0.176
	QUL-87-50M	2014 09 30	0.094
QUL-112	QUL-112-0M	2014 09 24	0.76
	QUL-112-40M	2014 09 24	0.079
	QUL-112X-40M	2014 09 24	0.155
	QA/QC RPD %		65
	QUL-112-80M	2014 09 24	0.102
	QUL-112-0M	2014 09 28	0.575
	QUL-112-40M	2014 09 28	0.064
	QUL-112-80M	2014 09 28	< 0.01
QUL-119	QUL-119-0M	2014 09 24	0.703
	QUL-119-40M	2014 09 24	0.154
	QUL-119-80M	2014 09 24	0.075
	QUL-119-0M	2014 09 28	0.459
	QUL-119-40M	2014 09 28	< 0.01
	QUL-119-80M	2014 09 28	< 0.01
QUL-120	QUL-120-0M	2014 09 24	0.706
	QUL-120X-0M	2014 09 24	0.774
	QA/QC RPD %		9
	QUL-120-40M	2014 09 24	0.203
	QUL-120X-40M	2014 09 24	0.148
	QA/QC RPD %		31
	QUL-120-80M	2014 09 24	< 0.01
	QUL-120-0M	2014 09 28	0.181
	QUL-120-40M	2014 09 28	< 0.01
	QUL-120-80M	2014 09 28	< 0.01
	QUL-120-0M	2014 09 30	0.688
	QUL-120-40M	2014 09 30	0.127
	QUL-120-80M	2014 09 30	0.098
QUL-EQUIPMENT BLANK	DI-BLANK	2014 09 25	< 0.01
QUL-FIELD BLANK	QUL-21-FB	2014 09 25	< 0.01

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.

[b] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.

[c] Health Canada Drinking Water Guidelines, 2012.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - Surface Water DRAFT

			Physical Parameters																			
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Standards																						
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8[k]	n/a	n/a	Change of 25	n/a	n/a	700-5,680[d]	32,800	60-120[d]	32,800[f]	600	1264-1510[d]	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient	Change of 2[k]	n/a	n/a	Change of 5[k]	+20% of median background	n/a	135-1,090[d]	3,000	20-40[d]	3,000[f]	150	n/a	128-309[d]	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,500	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[j]	n/a[j]	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
POL-5	POL-5-0M	2014 09 23	109	***8.63***	8.36	14.84	0.69	230	153	< 3	6.61	0.443	< 5	< 5	< 1	-	0.66	77	35.1	85.9	< 0.001	**0.004**
	POL-5-11M	2014 09 23	135	7.47	8.02	8.45	5.79	308	199	6.6	5.55	0.862	344	13.9	**145**	-	1.75	111	58.6	99	0.0171	***0.0247***
	POL-5X-11M	2014 09 23	134	7.47	7.95	8.45	5.62	308	204	6.3	5.42	0.879	344	12	**144**	-	1.78	113	59.2	98.8	0.0184	***0.0251***
	QA/QC RPD %		< 1	0	< 1	0	3	0	3	*	2	2	0	*	< 1	-	*	*	1	< 1	7	2
	POL-5-9M	2014 09 30	137	7.69	7.32	9.24	6.12	300	191	3.6	5.74	0.849	278	16.5	**109**	-	1.69	99	55	101	< 0.001	**0.0048**
	POL-5-0M	2014 10 04	114	***8.65***	8.25	11.8	2.74	242	157	4.7	6.5	0.419	34.9	5	7.2	-	0.82	88	38.6	88.4	< 0.001	**0.0047**
	POL-5-0M	2014 10 07	117	8.42	8.17	12.4	0.97	247	165	< 3	6.87	0.41	46.2	15.2	11.2	-	0.88	85	39.3	89	< 0.001	**0.0042**
	POL-5-11M	2014 10 07	137	7.53	8	8.7	8.13	305	200	6.6	5.65	0.742	344	11.7	**63.2**	-	1.7	110	57.6	99.5	0.0016	**0.0045**
	POL-5X-11M	2014 10 07	134	7.53	8.01	8.7	8.26	305	182	5.6	5.66	0.806	349	12.1	**62.8**	-	1.71	116	57.9	99.5	0.002	0.0052
	QA/QC RPD %		2	0	< 1	0	2	0	9	*	< 1	8	1	*	< 1	-	*	*	< 1	0	*	*
	POL-6-10M	2014 09 23	109	7.42	8.37	8.55	0.72	233	156	3.6	6.27	0.363	< 5	< 5	< 1	-	0.68	78	35.4	86.4	< 0.001	0.005
POL-6	POL-6-14M	2014 09 23	139	7.34	8	8.51	3.93	324	204	5.1	5.49	0.929	360	31.5	**215**	-	1.9	117	62.2	100	0.0208	***0.0274***
	POL-6-12M	2014 09 30	115	7.34	7.18	8.5	4.08	239	150	5.9	6.53	0.404	22.2	< 5	2	-	1.04	74	37	88	< 0.001	0.0054
	POL-6-0M	2014 10 04	116	***8.51***	8.2	11.7	1.69	247	167	4.3	6.42	0.442	62.5	10.2	17.5	-	0.92	86	40.8	89.8	< 0.001	**0.0045**
	POL-6-0M	2014 10 07	119	8.17	8.19	11.9	1.25	244	129	4	6.55	0.402	47.2	6.1	10.8	-	0.86	83	39.4	88.7	< 0.001	**0.0037**
	POL-6-13M	2014 10 07	135	7.51	7.94	8.6	8.8	306	202	5.5	5.92	0.736	359	44.3	**32.2**	-	1.78	110	57.4	99.7	0.004	0.008
P1	P1-0M	2014 09 23	109	***8.59***	8.37	14.68	0.79	230	156	< 3	6.46	0.452	< 5	< 5	< 1	-	0.67	77	35.1	86.5	< 0.001	0.005
	P1-27M	2014 09 23	145	7.18	7.93	8.23	11.1	342	220	12	5.9	1.38	932	< 5	< 1	-	2.06	114	63.6	114	0.0858	***0.092***
	P1-0M	2014 10 04	114	***8.65***	8.28	11.9	2.16	242	163	4.8	6.48	0.436	37.6	6	8	-	0.83	83	38.8	88.5	< 0.001	**0.0047**
	P1-30M	2014 10 04	147	7.15	7.93	8.2	11.5	338	190	7	5.88	1.33	961	< 5	< 1	-	2.05	118	63.4	114	0.0856	***0.0915***
	P1-0M	2014 10 07	117	8.45	8.04	12.5	1.07	241	159	3.2	6.63	0.402	43.7	5.2	8	-	0.85	84	38.9	87	< 0.001	**0.004**
	P1-26M	2014 10 07	151	7.25	7.9	8.2	12.2	339	219	8.5	6.18	1.35	1,040	< 5	< 1	-	2.04	118	62.7	114	0.096	***0.132***
P2	P2-0M	2014 09 23	108	***8.56***	8.39	14.36	0.64	230	150	< 3	6.35	0.395	< 5	< 5	< 1	-	0.68	77	35.3	86.7	< 0.001	**0.0049**
	P2-27M	2014 09 23	145	7.21	8	8.2	13	336	221	7.8	5.94	1.25	816	< 5	< 1	-	2.03	116	63.1	112	0.0782	***0.0761***
	P2-0M	2014 10 04	115	***8.57***	8.23	11.66	1.51	245	166	3.3	6.46	0.433	53.8	10.1	14.9	-	0.88	85	40.1	89.4	< 0.001	0.0052
	P2-25M	2014 10 04	146	7.43	7.89	8.2	11.8	336	225	8	5.91	1.28	918	15.3	< 1	-	2.08	118	63.7	113	0.0729	***0.0798***
	P2-0M	2014 10 07	118	8.5	8.21	12.4	1.09	246	161	4.2	6.64	0.673	47.6	8.8	10	-	0.86	87	39.3	88.6	< 0.001	**0.0038**
	P2-26M	2014 10 07	142	7.27	7.9	8.2	11.4	338	222	11.9	6.29	1.32	1,080	< 5	< 1	-	2.04	115	62.6	112	0.097	***0.0975***

All terms defined within the body of SNC-Lavalin's report (available upon request).
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\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and or Temperature or Hardness or Chloride.
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - Surface Water DRAFT

			Dissolved Metals																											
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																														
BCWQG Aquatic Life (AW)[b,c]			100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
POL-5	POL-5-0M	2014 09 23	8.3	35.8	< 30	4.77	1.56	0.742	6.2	0.11	0.76	11.1	< 0.1	22	< 0.01	< 0.5	< 0.1	2.65	< 0.05	< 0.5	-	5.67	< 0.5	0.88	< 0.01	< 0.01	< 10	0.172	1.2	< 3
	POL-5-11M	2014 09 23	4.8	44.8	< 30	5.62	400	1.68	11	0.28	1.29	21.8	< 0.1	29	< 0.01	< 0.5	< 0.1	0.83	< 0.05	0.97	-	15.5	< 0.5	1.66	< 0.01	< 0.01	< 10	0.384	1.7	< 3
	POL-5X-11M	2014 09 23	4.7	44.6	< 30	5.58	406	1.72	11.7	0.28	1.28	22	< 0.1	30	< 0.01	< 0.5	< 0.1	0.88	< 0.05	0.94	-	15.5	< 0.5	1.62	< 0.01	< 0.01	< 10	0.392	1.6	< 3
	QA/QC RPD %		*	< 1	*	< 1	2	2	6	*	< 1	< 1	*	*	*	*	*	*	*	*	-	0	*	*	*	*	*	2	*	*
	POL-5-9M	2014 09 30	4	45.2	< 30	5.89	227	1.53	10.2	0.29	1.16	19	< 0.1	29	< 0.01	< 0.5	< 0.1	1.14	< 0.05	1.01	-	15.1	< 0.5	1.73	< 0.01	< 0.01	< 10	0.379	1.5	< 3
	POL-5-0M	2014 10 04	5.7	36.9	< 30	5.24	2.27	0.902	7.08	0.13	0.81	12.5	< 0.1	20	< 0.01	< 0.5	< 0.1	2.3	< 0.05	< 0.5	-	6.79	< 0.5	1.05	< 0.01	< 0.01	< 10	0.186	1.2	< 3
	POL-5-0M	2014 10 07	4.8	38.2	< 30	5.3	1.47	0.893	6.72	0.13	0.82	12.4	< 0.1	22	< 0.01	< 0.5	< 0.1	2.17	< 0.05	< 0.5	-	7.56	< 0.5	1.04	< 0.01	< 0.01	< 10	0.202	1.2	< 3
	POL-5-11M	2014 10 07	3.3	45	< 30	5.9	197	1.53	10.2	0.25	1.2	19.1	< 0.1	27	< 0.01	< 0.5	< 0.1	0.96	< 0.05	0.87	-	14.4	< 0.5	1.66	< 0.01	< 0.01	< 10	0.355	1.4	< 3
	POL-5X-11M	2014 10 07	3.5	44.2	< 30	5.82	197	1.54	10.2	0.25	1.17	18.7	< 0.1	27	< 0.01	< 0.5	< 0.1	0.95	< 0.05	0.85	-	14.2	< 0.5	1.63	< 0.01	< 0.01	< 10	0.353	1.4	< 3
	QA/QC RPD %		*	2	*	1	0	< 1	0	*	3	2	*	*	*	*	*	*	*	*	-	1	*	*	*	*	*	< 1	*	*
	POL-6-10M	2014 09 23	7.2	35.9	< 30	4.77	1.52	0.774	6.46	0.11	0.76	11.4	< 0.1	22	< 0.01	< 0.5	< 0.1	2.63	< 0.05	< 0.5	-	5.79	< 0.5	0.89	< 0.01	< 0.01	< 10	0.172	1.2	< 3
POL-6	POL-6-14M	2014 09 23	5.3	46	< 30	5.73	458	1.86	12.1	0.32	1.38	23.8	< 0.1	31	< 0.01	< 0.5	< 0.1	0.72	< 0.05	1	-	16.9	< 0.5	1.9	< 0.01	< 0.01	< 10	0.411	1.9	< 3
	POL-6-12M	2014 09 30	7.5	37.7	< 30	5.15	13.5	0.86	6.56	0.13	0.81	12.5	< 0.1	23	< 0.01	< 0.5	< 0.1	2.3	< 0.05	0.61	-	7.22	< 0.5	0.99	< 0.01	< 0.01	< 10	0.206	1.2	< 3
	POL-6-0M	2014 10 04	4.9	37.6	< 30	5.3	1.31	0.951	7.43	0.15	0.84	12.5	< 0.1	22	< 0.01	< 0.5	< 0.1	2.14	< 0.05	< 0.5	-	7.79	< 0.5	1.14	< 0.01	< 0.01	< 10	0.219	1.2	< 3
	POL-6-0M	2014 10 07	4.7	38.8	< 30	5.31	0.852	0.903	7.21	0.12	0.81	12	< 0.1	22	< 0.01	< 0.5	< 0.1	2.17	< 0.05	< 0.5	-	7.18	< 0.5	1.04	< 0.01	< 0.01	< 10	0.209	1.2	< 3
	POL-6-13M	2014 10 07	3.5	44.3	< 30	5.85	96.3	1.41	9.54	0.23	1.09	17.1	< 0.1	25	< 0.01	< 0.5	< 0.1	1.26	< 0.05	0.76	-	12.8	< 0.5	1.45	< 0.01	< 0.01	< 10	0.318	1.3	< 3
P1	P1-0M	2014 09 23	8.9	35.7	< 30	4.77	1.61	0.764	6.58	< 0.1	0.74	11.3	< 0.1	22	< 0.01	< 0.5	< 0.1	2.77	< 0.05	< 0.5	-	5.68	< 0.5	0.89	< 0.01	< 0.01	< 10	0.167	1.2	< 3
	P1-27M	2014 09 23	5	47.8	344	6.13	802	1.94	13.4	< 0.1	1.74	26.9	< 0.1	33	< 0.01	< 0.5	0.16	< 0.5	< 0.05	0.89	-	16.4	< 0.5	0.62	< 0.01	< 0.01	< 10	0.367	1.7	< 3
	P1-0M	2014 10 04	6.9	37	< 30	5.23	3.02	0.903	7.12	0.13	0.83	12.3	< 0.1	21	< 0.01	< 0.5	< 0.1	2.28	< 0.05	< 0.5	-	7.15	< 0.5	1.04	< 0.01	< 0.01	< 10	0.207	1.2	< 3
	P1-30M	2014 10 04	5.1	47.8	278	6.63	759	1.89	12.8	< 0.1	1.6	26.3	< 0.1	30	< 0.01	< 0.5	0.15	< 0.5	< 0.05	0.83	-	15.7	< 0.5	1.83	< 0.01	< 0.01	< 10	0.354	1.7	< 3
	P1-0M	2014 10 07	4.3	38.1	< 30	5.21	1.37	0.886	6.82	0.13	0.84	11.9	< 0.1	21	< 0.01	< 0.5	< 0.1	2.25	< 0.05	< 0.5	-	7.09	< 0.5	1.04	< 0.01	< 0.01	< 10	0.198	1.2	< 3
	P1-26M	2014 10 07	4.3	49.7	296	6.68	766	1.87	12.7	< 0.1	1.64	25.6	< 0.1	30	< 0.01	< 0.5	0.14	< 0.5	< 0.05	0.86	-	15.7	< 0.5	1.43	< 0.01	< 0.01	< 10	0.343	1.6	< 3
P2	P2-0M	2014 09 23	8.3	35.3	< 30	4.74	1.47	0.767	6.36	0.1	0.75	11.4	< 0.1	22	< 0.01	< 0.5	< 0.1	2.67	< 0.05	< 0.5	-	6.01	< 0.5	0.86	< 0.01	< 0.01	< 10	0.172	1.2	< 3
	P2-27M	2014 09 23	5.1	48.1	245	6.16	746	1.94	13	< 0.1	1.76	26.4	< 0.1	33	< 0.01	< 0.5	0.15	< 0.5	< 0.05	0.96	-	16.8	< 0.5	0.72	< 0.01	< 0.01	< 10	0.37	1.7	< 3
	P2-0M	2014 10 04	4.5	37.4	< 30	5.3	1.28	0.945	7.21	0.14	0.85	13	< 0.1	21	< 0.01	< 0.5	< 0.1	2.32	< 0.05	< 0.5	-	7.3	< 0.5	1.12	< 0.01	< 0.01	< 10	0.202	1.2	< 3
	P2-25M	2014 10 04	5.9	47.6	249	6.59	759	1.93	13.1	< 0.1	1.64	26.6	< 0.1	30	< 0.01	< 0.5	0.16	< 0.5	< 0.05	0.82	-	15.9	< 0.5	1.71	< 0.01	< 0.01	< 10	0.35	1.6	< 3
	P2-0M	2014 10 07	5.7	38.6	< 30	5.29	1.02	0.912	7.12	0.14	0.79	12	< 0.1	21	< 0.01	< 0.5	< 0.1	2.31	< 0.05	< 0.5	-	7.39	< 0.5	1.02	< 0.01	< 0.01	< 10	0.205	1.2	< 3
	P2-26M	2014 10 07	3.2	46.6	229	6.31	750	1.92	12.8	< 0.1	1.59	25.9	< 0.1	31	< 0.01	< 0.5	0.13	< 0.5	< 0.05	0.99	-	17.7	< 0.5	1.22	< 0.01	< 0.01	< 10	0.213	1.6	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).
< Denotes concentration less than indicated detection limit or RPD less than indicated value.
\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.
SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and or Temperature or Hardness or Chloride.
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3a: Summary of Analytical Results for Mount Polley, Polley Lake - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																												
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																															
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.0285-0.048[d]	n/a	1 (Cr(+6))	110	9.9-16.57[d]	1,000	65.3-142.6[d]	870	1465-2248[d]	Methyl mercury analysis in progress	2,000	25-110[d]	373,000-432,000	2	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-81.75[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	3.4-6.2[d]	n/a	5.9-8.9[d]	14[i]	974-1287[d]		1,000	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-56.25[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
POL-5	POL-5-0M	2014 09 23	19.6	0.13	0.79	11.2	< 0.1	< 0.5	24	< 0.01	35,300	< 0.5	< 0.1	3.18	< 30	< 0.05	< 0.5	12	-	6.13	< 0.5	760	0.87	< 0.01	6,400	< 0.01	< 0.1	< 10	0.181	1.3	< 3
	POL-5-11M	2014 09 23	***199***	0.34	1.44	26.6	< 0.1	< 0.5	33	0.012	45,500	< 0.5	0.17	**7.49**	120	0.082	1.05	***452***	-	16.7	< 0.5	1,820	1.75	< 0.01	11,500	< 0.01	< 0.1	13	0.421	2.1	< 3
	POL-5X-11M	2014 09 23	***198***	0.33	1.44	26.1	< 0.1	< 0.5	33	< 0.01	45,300	< 0.5	0.16	**7.43**	117	0.073	0.94	***447***	-	16.7	< 0.5	1,810	1.76	< 0.01	11,800	< 0.01	< 0.1	13	0.397	2.1	< 3
	QA/QC RPD %		< 1	*	0	2	*	*	*	*	< 1	*	*	*	*	*	*	*	-	0	*	< 1	*	*	3	*	*	*	6	*	*
	POL-5-9M	2014 09 30	90.9	0.34	1.23	21.2	< 0.1	< 0.5	32	0.01	45,000	< 0.5	< 0.1	4.07	63	< 0.05	0.97	***263***	-	15.7	< 0.5	1,580	1.68	< 0.01	10,200	< 0.01	< 0.1	12	0.399	1.8	< 3
	POL-5-0M	2014 10 04	80.9	0.15	0.82	13.2	< 0.1	< 0.5	23	< 0.01	36,800	< 0.5	< 0.1	4.1	56	< 0.05	< 0.5	16.8	-	7.39	< 0.5	879	1.04	< 0.01	6,600	< 0.01	< 0.1	< 10	0.211	1.3	< 3
	POL-5-0M	2014 10 07	23.7	0.15	0.84	13.2	< 0.1	< 0.5	25	< 0.01	39,300	< 0.5	< 0.1	3.08	< 30	< 0.05	< 0.5	14.6	-	8.51	< 0.5	930	1.06	< 0.01	7,280	< 0.01	< 0.1	< 10	0.229	1.3	< 3
	POL-5-11M	2014 10 07	***101***	0.28	1.25	21.9	< 0.1	< 0.5	29	< 0.01	44,400	< 0.5	< 0.1	4.23	61	< 0.05	0.7	***329***	-	15.7	< 0.5	1,560	1.73	< 0.01	10,300	< 0.01	< 0.1	12	0.374	1.8	< 3
	POL-5X-11M	2014 10 07	***102***	0.27	1.24	21.5	< 0.1	< 0.5	29	< 0.01	43,800	< 0.5	< 0.1	4.66	62	0.124	0.66	***298***	-	15.3	< 0.5	1,550	1.76	< 0.01	10,400	< 0.01	< 0.1	12	0.366	1.8	< 3
	QA/QC RPD %		< 1	*	< 1	2	*	*	*	*	1	*	*	*	*	*	*	*	-	3	*	< 1	*	*	< 1	*	*	*	2	*	*
	POL-6-10M	2014 09 23	27.5	0.14	0.84	12.2	< 0.1	< 0.5	26	< 0.01	36,900	< 0.5	< 0.1	3.47	< 30	< 0.05	< 0.5	11	-	6.62	< 0.5	807	0.92	< 0.01	6,640	< 0.01	< 0.1	< 10	0.192	1.4	< 3
POL-6	POL-6-14M	2014 09 23	***113***	0.34	1.42	26.1	< 0.1	< 0.5	34	< 0.01	46,000	< 0.5	0.12	5.08	45	0.072	1.09	***469***	-	18.1	< 0.5	1,910	1.89	< 0.01	12,200	< 0.01	< 0.1	11	0.426	2.1	< 3
	POL-6-12M	2014 09 30	***196***	0.14	0.85	15.3	< 0.1	< 0.5	26	< 0.01	36,500	< 0.5	0.16	**8.39**	137	0.064	0.87	25.9	-	7.31	< 0.5	929	0.91	< 0.01	6,610	< 0.01	< 0.1	14	0.218	1.7	< 3
	POL-6-0M	2014 10 04	43.3	0.15	0.88	13.8	< 0.1	< 0.5	24	< 0.01	37,600	< 0.5	< 0.1	3.41	< 30	< 0.05	< 0.5	35.3	-	8.46	< 0.5	968	1.17	< 0.01	7,330	< 0.01	< 0.1	< 10	0.24	1.4	< 3
	POL-6-0M	2014 10 07	31.5	0.15	0.83	12.5	< 0.1	< 0.5	24	< 0.01	38,300	< 0.5	< 0.1	3.01	< 30	< 0.05	< 0.5	17.4	-	7.82	< 0.5	911	1.05	< 0.01	6,860	< 0.01	< 0.1	< 10	0.225	1.4	< 3
	POL-6-13M	2014 10 07	88.7	0.26	1.27	20.3	< 0.1	< 0.5	28	< 0.01	44,100	< 0.5	< 0.1	3.89	45	< 0.05	0.78	***269***	-	14.3	< 0.5	1,500	1.51	< 0.01	10,100	< 0.01	< 0.1	11	0.349	1.8	< 3
P1	P1-0M	2014 09 23	20.8	0.13	0.78	11.6	< 0.1	< 0.5	25	< 0.01	36,100	< 0.5	< 0.1	**10.4**	< 30	0.414	< 0.5	12.1	-	6.26	< 0.5	765	0.9	< 0.01	6,400	< 0.01	< 0.1	< 10	0.182	1.3	5.3
	P1-27M	2014 09 23	***497***	0.23	1.96	39	< 0.1	< 0.5	37	< 0.01	48,300	< 0.5	0.29	**15.6**	***539***	0.192	1.1	***794***	-	17.4	< 0.5	2,120	0.98	< 0.01	13,300	< 0.01	< 0.1	23	0.392	2.4	< 3
	P1-0M	2014 10 04	88.7	0.14	0.85	13.3	< 0.1	< 0.5	23	< 0.01	36,600	< 0.5	< 0.1	4.31	55	< 0.05	< 0.5	20.3	-	7.54	< 0.5	916	1	0.014	7,000	< 0.01	< 0.1	10	0.218	1.4	< 3
	P1-30M	2014 10 04	***483***	0.2	1.85	38.5	< 0.1	< 0.5	34	< 0.01	47,900	< 0.5	0.29	**13.2**	***439***	0.168	0.88	***781***	-	17.8	< 0.5	2,130	0.94	0.01	13,000	< 0.01	< 0.1	23	0.403	2.3	< 3
	P1-0M	2014 10 07	28.4	0.14	0.86	12.5	< 0.1	< 0.5	24	< 0.01	37,900	< 0.5	< 0.1	3	< 30	< 0.05	< 0.5	13	-	7.82	< 0.5	897	1.06	< 0.01	6,900	< 0.01	< 0.1	< 10	0.218	1.3	< 3
	P1-26M	2014 10 07	***355***	0.17	1.79	35.2	< 0.1	< 0.5	34	< 0.01	48,700	< 0.5	0.26	**11.3**	***427***	0.151	0.87	***761***	-	17.2	< 0.5	1,970	1.01	< 0.01	12,700	< 0.01	< 0.1	20	0.386	2.2	< 3
P2	P2-0M	2014 09 23	22.3	0.13	0.75	11.2	< 0.1	< 0.5	24	0.011	35,600	< 0.5	< 0.1	3.42	< 30	< 0.05	< 0.5	12.2	-	6.07	< 0.5	756	0.88	< 0.01	6,460	< 0.01	< 0.1	< 10	0.182	1.3	< 3
	P2-27M	2014 09 23	***552***	0.23	1.96	40.2	< 0.1	< 0.5	36	0.01	47,200	< 0.5	0.32	**16.1**	***434***	0.198	1.08	***762***	-	17.8	< 0.5	2,230	0.98	< 0.01	13,100	< 0.01	< 0.1	24	0.398	2.6	< 3
	P2-0M	2014 10 04	33	0.15	0.82	12.9	< 0.1	< 0.5	24	< 0.01	37,300	< 0.5	< 0.1	3.24	< 30	< 0.05	< 0.5	24.3	-	8.26	< 0.5	931	1.06	0.012	7,210	< 0.01	< 0.1	< 10	0.237	1.3	< 3
	P2-25M	2014 10 04	***470***	0.19	1.8	38	< 0.1	< 0.5	33	< 0.01	46,600	< 0.5	0.27	**12.9**	***398***	0.149	0.83	***747***	-	17	< 0.5	2,120	0.99	0.01	12,800	< 0.01	< 0.1	22	0.383	2.3	< 3
	P2-0M	2014 10 07	21.3	0.14	0.82	11.9	< 0.1	< 0.5	24	< 0.01	38,200	< 0.5	< 0.1	3.1	< 30	< 0.05	< 0.5	13.4	-	8.02	< 0.5	876	1.05	< 0.01	6,800	< 0.01	< 0.1	< 10	0.21	1.3	< 3
	P2-26M	2014 10 07	***333***	0.18	1.75	34.3	< 0.1	< 0.5	34	< 0.01	48,600	< 0.5	0.23	**10.7**	***374***	0.156	0.95	***731***	-	17.3	< 0.5	1,930	0.88	< 0.01	12,400	< 0.01	< 0.1	19	0.381	2.1	< 3

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n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.
SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

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[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
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[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - Blanks DRAFT

			Physical Parameters																			
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus[g] (mg/L)
BC Standards																						
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0	+/-1 Degree change from ambient	Change of 8[k]	n/a	n/a	Change of 25	n/a	n/a	700-5,680[d]	32,800	60-120[d]	32,800[f]	600	1264-1510[d]	n/a	n/a	n/a	0.005-0.015
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a		Change of 2[k]	n/a	n/a	Change of 5[k]	+20% of median background	n/a	135-1,090[d]	3,000	20-40[d]	3,000[f]	150	n/a	128-309[d]	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,500	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[j]	n/a[j]	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 0.5	-	***6.14***	-	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	**0.0021**
POL-FIELD BLANK	POL-5-FB	2014 10 07	< 0.5	-	***5.49***	-	< 0.1	< 2	< 10	< 3	< 0.5	< 0.05	< 5	< 5	< 1	-	< 0.5	< 20	< 0.5	< 1	< 0.001	< 0.002[a]

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SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

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[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - Blanks DRAFT

			Dissolved Metals																											
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																														
BCWQG Aquatic Life (AW)[b,c]			100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 3	< 0.05	< 30	< 0.1	0.113	< 0.05	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 10	< 0.01	< 0.5	< 0.1	< 0.5	< 0.05	< 0.5	-	< 0.05	< 0.5	< 0.5	< 0.01	< 0.01	< 10	< 0.01	< 1	< 3
POL-FIELD BLANK	POL-5-FB	2014 10 07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

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TABLE 3b: Summary of Analytical Results for Mount Polley, Polley Lake - Blanks DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																											
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Tin (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																														
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.0285-0.048[d]	n/a	1 (Cr(+6))	110	9.9-16.57[d]	1,000	65.3-142.6[d]	870	1465-2248[d]	Methyl mercury analysis in progress	2,000	25-110[d]	373,000-432,000	2	0.1-3.0[d]	n/a	0.3	n/a	2,000	300	6	33-81.75[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	3.4-6.2[d]	n/a	5.9-8.9[d]	14[i]	974-1287[d]		1,000	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	n/a	7.5-56.25[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	n/a	20	n/a	5,000
POL-EQUIPMENT BLANK	VAN1B	2014 09 30	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	0.087	-	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3
POL-FIELD BLANK	POL-5-FB	2014 10 07	< 3	< 0.1	< 0.1	< 0.05	< 0.1	< 0.5	< 10	< 0.01[a]	< 50	< 0.5	< 0.1	< 0.5	< 30	< 0.05	< 0.5	< 0.05	-	< 0.05	< 0.5	< 50	< 0.5	< 0.01	< 50	< 0.01	< 0.1	< 10	< 0.01	< 1	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).
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\- Denotes analysis not conducted.
n/a Denotes no applicable standard.
* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and or Temperature or Hardness or Chloride.
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] The total phosphorus guideline is a measure of lake productivity and is based on spring overturn or an average of summer samples and is not applicable to single sample results at this point in time.
[h] Calculated based on an individual sample basis, not average of 30 day results.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.54-2.73 NTU and <3-5.5 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

			Physical Parameters									Total Inorganics										
Sample Location	Sample ID	Sample Date (yyyy mm dd)	Hardness (mg/L)	pH (field) (pH)	pH (pH)	Temperature (field) (C)	Turbidity (NTU)	Conductivity (µS/cm)	TDS (mg/L)	TSS (mg/L)	DOC (mg/L)	Total Nitrogen (N) (mg/L)	Ammonia Nitrogen (µg/L)	Nitrate Nitrogen (µg/L)	Nitrite Nitrogen (µg/L)	Nitrate+Nitrite Nitrogen (µg/L)	Chloride (mg/L)	Fluoride (µg/L)	Sulphate (mg/L)	Total Alkalinity (as CaCO3) (mg/L)	Ortho-phosphate (mg/L)	Total Phosphorus (mg/L)
BC Standards																						
BCWQG Aquatic Life (AW)[b,c]			n/a	6.5-9.0	6.5-9.0		Change of 8	n/a	n/a	Change of 25	n/a	n/a	700-24,500[d]	32,800	60-600[d]	32,800[f]	600	1324-1982[d]	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	+/-1 Degree change from ambient[g]	Change of 2[k]	n/a	n/a	Change of 5[k]	+20% of median background	n/a	135-17,700[d]	3,000	20-200[d]	3,000[f]	150	n/a	128-429[d]	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			n/a	6.5-8.5	6.5-8.5	n/a[j]	Change of 1	n/a	n/a	n/a	n/a	n/a	n/a	10,000	1,000	10,000[f]	250	1,000	500	n/a	n/a	0.01
Canadian Drinking Water Quality (DW)[e]			n/a	6.5-8.5	6.5-8.5	n/a[j]	n/a[j]	n/a	500	n/a	n/a	n/a	n/a	10,000	1,000	n/a	250	1,500	500	n/a	n/a	n/a
HAD-1	HAD-01	2014 09 24	114	-	7.91	-	1.01	239	149	4.1	6.74	0.526	47.2	24.3	**24.7**	-	0.82	79	38.7	88.6	< 0.001	0.0055
	HAD-1	2014 10 01	114	-	8.23	-	1.14	225	149	< 3	6.73	0.385	8.4	< 5	< 1	-	0.75	79	36.5	86.8	< 0.001	0.004
HAC01	HAC-01	2014 09 22	117	-	8.18	-	***3,200***	242	181	**3,120**	6.13	1.16	78.7	< 5	1.6	-	0.79	84	36	98	0.0035	0.0089
	HAC-01	2014 09 23	116	-	8.14	-	***3,970***	242	190	**5,150**	6.67	1.6	104	< 5	< 1	-	0.79	86	36	100	0.0047	0.0079
	HAC-01	2014 09 24	127	-	7.54	-	***4,140***	251	180	**4,820**	6.51	0.597	117	14.5	14.5	-	0.89	95	38.1	103	0.002	0.0055
	HAC-01	2014 09 25	116	-	7.28	-	***2,080***	245	195	**1,940**	7.43	1.23	74.5	< 5	4.4	-	0.81	85	36.5	101	0.0032	0.0074
HAC01A	HAC-01A	2014 09 27	120	-	7.89	-	***2,470***	241	187	**3,660**	6.13	1.19	79.5	< 5	2.4	-	0.84	85	36.4	100	0.0019	0.004
	HAC-01A	2014 09 28	119	-	7.87	-	***1,650***	242	158	**3,090**	6.5	1.15	67.8	< 5	2.4	-	0.84	85	36.6	103	0.0021	0.0042
	HAC-01A	2014 09 29	116	-	7.87	-	***1,410***	241	189	**2,700**	6.04	0.997	58.1	< 5	1.5	-	0.85	84	37.3	98.5	0.0014	0.0038
	HAC-01A	2014 09 30	116	-	7.82	-	***1,200***	249	172	**2,020**	6.5	1.12	54.2	< 5	< 1	-	0.97	82	36.2	98.4	0.002	0.0062
	HAC-01A	2014 10 01	116	8.06	7.95	12.4	***905***	246	146	**1,930**	6.76	0.928	51.6	< 5	< 1	-	0.86	93	36.2	96.8	0.0012	0.0049
	HAC-01A	2014 10 03	141	8.14	8.03	10	***938***	290	207	**1,670**	5.82	0.655	258	6.3	**93.2**	-	1.79	115	52.8	103	0.007	***0.0112***
	HAC-01A	2014 10 04	121	8.3	8.18	12.5	***1,530***	264	181	**3,410**	6.32	0.432	100	13.9	12.8	-	1.23	100	41.1	98.2	0.0018	0.0046
	HAC-01A	2014 10 05	120	8.15	8.07	12.66	***1,890***	259	191	**2,750**	6.93	0.476	105	14.3	18.5	-	1.06	90	41.3	88.8	0.003	0.0072
	HAC-01A	2014 10 06	121	8.06	8.12	13.33	***2,480***	256	192	**2,890**	6.23	< 1	116	12.1	11.6	-	0.95	91	39.4	99.5	0.0034	0.0063
	HAC-01A	2014 10 07	121	8.05	8.13	14	***2,120***	257	189	**2,580**	6.39	< 1	113	17.9	10.5	-	1	95	39.1	94.4	0.0032	0.0053
HAC03	HAC-03	2014 09 24	455	-	8.23	-	***57.8***	1,010	***718***	**183**	8.76	0.261	39.2	< 50	< 10	-	14.5	300	348	221	< 0.001	< 0.002
HAC05	HAC-05	2014 09 24	116	-	8.06	-	***36.5***	240	174	**128**	7.03	0.421	32.7	11.1	12.6	-	0.84	76	37.8	91.2	< 0.001	0.0056
	HAC-05	2014 10 01	116	-	8.18	-	***19.9***	230	153	**89**	6.9	0.423	9.7	< 5	< 1	-	0.78	80	36.7	89.2	< 0.001	0.0048
	HAC-05X	2014 10 01	116	-	8.18	-	***21.1***	231	162	**114**	6.67	0.392	9.7	< 5	< 1	-	0.78	81	36.6	88.9	< 0.001	0.0042
	QA/QC RPD %		0	-	0	-	6	< 1	6	25	3	8	*	*	*	-	*	*	< 1	< 1	*	*
HAC07	HAC-07	2014 09 24	116	-	8.02	-	***25.9***	237	156	**113**	7.15	0.524	31.8	17.7	11.3	-	0.85	75	37.7	90.3	< 0.001	0.0057

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SHADED	Concentration greater than BCWQG Aquatic Life (AW) guideline.
BOLD	Concentration greater than BCWQG Drinking Water (DW) guideline.
SHADED	Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.
BOLD	Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
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[d] Guideline varies with pH, and or Temperature or Hardness or Chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).
[h] Calculated based on an individual sample basis, not average result basis.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Dissolved Metals																										
			Dissolved Aluminum (µg/L)	Dissolved Calcium (mg/L)	Dissolved Iron (µg/L)	Dissolved Magnesium (mg/L)	Dissolved Manganese (µg/L)	Dissolved Potassium (mg/L)	Dissolved Sodium (mg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Lithium (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																													
BCWQG Aquatic Life (AW)[b,c]			100[d]	n/a	350	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Aquatic Life (30day) (AW)[b,c,h]			50[d]	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
BCWQG Drinking Water (DW)[b,c]			200	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Canadian Drinking Water Quality (DW)[e]			n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
HAD-1	HAD-01	2014 09 24	6.1	36.9	< 30	5.21	1.36	0.928	6.91	0.13	0.85	12.3	< 0.1	23	< 0.01	< 0.5	< 0.1	2.53	< 0.05	0.72	7.12	< 0.5	1.07	< 0.01	< 0.01	< 10	0.213	1.2	< 3
	HAD-1	2014 10 01	6.8	37.2	< 30	5.17	2.08	0.829	6.71	0.11	0.77	11.1	< 0.1	24	< 0.01	< 0.5	< 0.1	2.53	< 0.05	< 0.5	6.85	< 0.5	1.02	< 0.01	< 0.01	< 10	0.208	1.2	< 3
HAC01	HAC-01	2014 09 22	**117**	36.9	181	5.9	33.8	1.23	7.04	< 0.5	2.07	36.1	< 0.5	< 50	< 0.05	< 0.5	< 0.5	13.1	0.41	< 2.5	7.06	< 2.5	1.01	< 0.05	< 0.05	20	0.62	< 5	7.9
	HAC-01-1	2014 09 23	**132**	36.5	151	6.06	32.5	1.12	6.46	< 0.5	1.94	35.3	< 0.5	< 50	< 0.05	< 0.5	< 0.5	15.7	< 0.25	< 2.5	7.43	< 2.5	1.11	< 0.05	< 0.05	16	0.701	< 5	< 5
	HAC-01	2014 09 24	***1,670***	39.7	**1,990**	6.78	79.8	1.68	7.75	< 0.5	2.29	49.9	< 0.5	< 50	< 0.05	2.66	1.28	31.4	1.17	2.5	6.67	4.1	1	< 0.05	< 0.05	103	0.682	6.5	6.7
	HAC-01	2014 09 25	***462***	36.3	**521**	6.15	38.5	1.3	7.35	< 0.5	1.8	39.1	< 0.5	< 50	< 0.05	0.62	< 0.5	17	0.37	3.2	7.45	< 2.5	1.07	< 0.05	< 0.05	37	0.738	< 5	< 5
HAC01A	HAC-01A	2014 09 27	44.7	38.3	47	5.82	27.2	1.13	6.87	< 0.5	1.49	28.4	< 0.5	< 50	< 0.05	< 0.5	< 0.5	14.9	< 0.25	< 2.5	7.09	< 2.5	1.01	< 0.05	< 0.05	< 10	0.606	< 5	< 5
	HAC-01A	2014 09 28	**55.2**	38	58	5.81	27.5	1.15	6.98	< 0.2	1.47	29.6	< 0.2	24	< 0.02	< 0.5	< 0.2	10.8	< 0.1	< 1	7.04	< 1	0.95	< 0.02	< 0.02	< 10	0.484	2.5	< 3
	HAC-01A	2014 09 29	23.4	36.7	< 30	5.82	28.2	1.11	7.64	0.21	1.42	30.7	< 0.2	25	< 0.02	< 0.5	< 0.2	12.5	< 0.1	< 1	7.53	< 1	0.99	< 0.02	< 0.02	< 10	0.493	2	< 3
	HAC-01A	2014 09 30	18.7	36.8	< 30	5.81	23.5	1.04	6.89	< 0.2	1.4	31.7	< 0.2	24	< 0.02	< 0.5	< 0.2	9.85	< 0.1	< 1	6.91	< 1	0.97	< 0.02	< 0.02	< 10	0.475	2.2	< 3
	HAC-01A	2014 10 01	**81.6**	36.9	91	5.78	27.7	1.02	7.19	< 0.2	1.36	28.6	< 0.2	28	< 0.02	< 0.5	< 0.2	9.83	< 0.1	< 1	7.32	< 1	0.98	< 0.02	< 0.02	12	0.479	2.2	< 3
	HAC-01A	2014 10 03	30.6	45.1	< 30	6.83	140	1.73	11.1	0.32	1.65	40.6	< 0.2	31	< 0.02	< 0.5	< 0.2	10.5	< 0.1	< 1	13.4	< 1	1.49	< 0.02	< 0.02	< 10	0.589	2.6	< 3
	HAC-01A	2014 10 04	21.5	38.3	< 30	6.05	23.1	1.17	7.82	0.21	1.37	33.2	< 0.2	24	< 0.02	< 0.5	< 0.2	9.25	< 0.1	< 1	8.68	< 1	0.99	< 0.02	< 0.02	< 10	0.507	2.3	< 3
	HAC-01A	2014 10 05	**162**	37.8	216	6.12	28.9	1.19	7.42	0.25	1.44	36.1	< 0.2	24	< 0.02	< 0.5	< 0.2	10.2	0.13	< 1	8.33	< 1	1.05	< 0.02	< 0.02	19	0.501	2.8	8.5
	HAC-01A	2014 10 06	**152**	38.7	176	5.93	30.3	1.18	7.7	0.25	1.53	35.9	< 0.2	28	< 0.02	< 0.5	< 0.2	9.07	0.13	1.1	8.06	< 1	1.06	< 0.02	< 0.02	19	0.572	3.1	< 3
	HAC-01A	2014 10 07	**190**	38.2	244	6.15	31.8	1.12	7.33	0.23	1.59	33.1	< 0.2	25	< 0.02	< 0.5	< 0.2	9.55	0.14	< 1	8.17	< 1	1.01	< 0.02	< 0.02	21	0.533	2.8	< 3
HAC03	HAC-03	2014 09 24	7.8	144	< 30	23.1	670	6.24	54	0.41	1.88	42.2	< 0.1	108	0.066	< 0.5	0.96	68.6	< 0.05	6.24	66.5	1.29	1.41	< 0.01	< 0.01	22	2.84	1.4	< 3
HAC05	HAC-05	2014 09 24	8.9	37.4	< 30	5.41	9.25	0.87	6.51	0.13	0.8	14.6	< 0.1	25	< 0.01	< 0.5	< 0.1	7.17	< 0.05	0.83	6.77	< 0.5	1.03	< 0.01	< 0.01	< 10	0.217	1.2	< 3
	HAC-05	2014 10 01	8.3	37.9	< 30	5.27	8.64	0.866	6.88	0.12	0.82	12.5	< 0.1	25	< 0.01	< 0.5	< 0.1	5.97	< 0.05	< 0.5	6.92	< 0.5	0.97	< 0.01	< 0.01	< 10	0.219	1.2	< 3
	HAC-05X	2014 10 01	7.9	37.8	< 30	5.29	8.51	0.854	6.86	0.13	0.82	12.7	< 0.1	25	< 0.01	< 0.5	< 0.1	6.01	< 0.05	< 0.5	7.11	< 0.5	1.01	< 0.01	< 0.01	< 10	0.228	1.2	< 3
	QA/QC RPD %		*	< 1	*	< 1	2	1	< 1	*	0	2	*	*	*	*	*	< 1	*	*	3	*	*	*	*	*	4	*	*
HAC07	HAC-07	2014 09 24	8.4	37.4	< 30	5.4	8.32	0.869	6.54	0.13	0.77	14.4	< 0.1	25	< 0.01	< 0.5	< 0.1	6.76	< 0.05	0.78	6.84	< 0.5	0.97	< 0.01	< 0.01	< 10	0.207	1.3	< 3

All terms defined within the body of SNC-Lavalin's report (available upon request).

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\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

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[d] Guideline varies with pH, and or Temperature or Hardness or Chloride

[e] Health Canada Drinking Water Guidelines, 2012.

[f] Guideline for Nitrate applied.

[g] Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).

[h] Calculated based on an individual sample basis, not average result basis.

[i] Secondary chronic or chronic value, not 30 day mean.

[j] Guideline not applicable for site situation.

[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

TABLE 4a: Summary of Analytical Results for Mount Polley, Hazeltine Creek - Surface Water DRAFT

Sample Location	Sample ID	Sample Date (yyyy mm dd)	Total Metals																												
			Aluminum (µg/L)	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Bismuth (µg/L)	Boron (µg/L)	Cadmium (µg/L)	Calcium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Iron (µg/L)	Lead (µg/L)	Lithium (µg/L)	Magnesium (µg/L)	Manganese (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Potassium (µg/L)	Selenium (µg/L)	Silver (µg/L)	Sodium (µg/L)	Thallium (µg/L)	Titanium (µg/L)	Uranium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
BC Standards																															
BCWQG Aquatic Life (AW)[b,c]			n/a	20	5	5,000	n/a	n/a	1,200	0.0325-0.13[d]	n/a	1 (Cr(+6))	110	11.2-49.1[d]	1,000	79.5-635.1[d]	870	n/a	1619-6061[d]	Methyl mercury analysis in progress	2,000	25-150[d]	373,000-432,000	2	0.1-3.0[d]	n/a	0.3	2,000	300	6	38.9-341[d]
BCWQG Aquatic Life (30day) (AW)[b,c,h]			n/a	n/a	n/a	1,000	5.3[i]	n/a	n/a	n/a	n/a	n/a	4	3.9-20[d]	n/a	6.4-28.1[d]	14[i]	n/a	1036-2809[d]		1,000	n/a	n/a	n/a	0.05-1.5[d]	n/a	n/a	n/a	n/a	n/a	13.1-316[d]
BCWQG Drinking Water (DW)[b,c]			n/a	14	25	n/a	4	n/a	5,000	n/a	n/a	n/a	n/a	500	n/a	50	n/a	n/a	n/a	1	250	n/a	n/a	10	n/a	n/a	2	n/a	n/a	n/a	5,000
Canadian Drinking Water Quality (DW)[e]			100	6	10	1,000	n/a	n/a	5,000	5	n/a	50	n/a	1,000	300	10	n/a	n/a	50	1	n/a	n/a	n/a	10	n/a	200,000	n/a	n/a	20	n/a	5,000
HAD-1	HAD-01	2014 09 24	33.8	0.15	0.85	13.2	< 0.1	< 0.5	29	< 0.01	37,200	< 0.5	< 0.1	3.36	< 30	< 0.05	0.81	5,320	16.8	-	7.49	< 0.5	931	1.05	< 0.01	7,020	< 0.01	< 10	0.216	1.4	< 3
	HAD-1	2014 10 01	37.1	0.14	0.78	12.1	< 0.1	< 0.5	27	< 0.01	36,700	< 0.5	< 0.1	3.4	< 30	< 0.05	0.71	5,160	11.5	-	6.82	< 0.5	825	0.93	< 0.01	6,330	< 0.01	< 10	0.181	1.3	< 3
HAC01	HAC-01	2014 09 22	***62,900***	0.66	***37.7***	600	1.97	< 2.5	< 50	**0.962**	127,000	***110***	**59**	***1,170***	***107,000***	***37.5***	**75.5**	47,100	***2,410***	-	6.71	**128**	8,000	**2.56**	0.811	9,120	**0.417**	**2,850**	3.22	**206**	**269**
	HAC-01-1	2014 09 23	***71,300***	0.57	***42.8***	709	2.25	< 2.5	< 50	**1.06**	165,000	***126***	**70.6**	***1,680***	***126,000***	***46.4***	**86.6**	55,400	***2,920***	-	6.97	**140**	8,940	**2.79**	1.05	9,410	**0.443**	**3,270**	4.08	**242**	**315**
	HAC-01	2014 09 24	***69,500***	0.69	***37.9***	603	1.98	< 2.5	< 50	**1.02**	148,000	***123***	**60.4**	***1,170***	***112,000***	***39.2***	**89**	47,000	***2,470***	-	8.01	**136**	9,170	**2.57**	0.728	10,700	**0.424**	**3,100**	3.56	**214**	**282**
	HAC-01	2014 09 25	***59,100***	0.71	***35.1***	560	1.78	< 2.5	< 50	**0.786**	133,000	***97.8***	**51.1**	***1,070***	***106,000***	***36.3***	**71.3**	43,400	***2,090***	-	7.31	**109**	7,890	**2.46**	0.697	9,880	**0.413**	**3,010**	3.36	**190**	**239**
HAC01A	HAC-01A	2014 09 27	***53,100***	< 0.5	***34.7***	518	1.71	< 2.5	< 50	**0.865**	141,000	***83.8***	**51.4**	***1,400***	***95,800***	***34***	**69.6**	42,700	***2,110***	-	7.8	**98.7**	7,330	**2.14**	0.849	9,770	**0.313**	**2,700**	3.25	**182**	**220**
	HAC-01A	2014 09 28	***48,300***	0.54	***32.7***	472	1.46	< 1	37	**0.65**	131,000	***75.5***	**43.9**	***1,190***	***84,500***	***30***	**59.8**	37,600	***1,850***	-	7.77	**87.3**	6,970	1.98	0.672	9,600	0.298	**2,450**	2.92	**166**	**186**
	HAC-01A	2014 09 29	***41,200***	0.55	***27.9***	459	1.3	< 1	35	**0.636**	115,000	***66.1***	**36.9**	***910***	***68,400***	***27.3***	**50**	32,500	***1,590***	-	7.14	**76**	6,400	1.87	0.554	9,520	0.271	**2,110**	2.52	**130**	**163**
	HAC-01A	2014 09 30	***33,800***	0.48	***18.9***	310	0.96	< 1	34	**0.446**	89,700	***63.7***	**30.3**	**402**	***58,000***	***20.3***	**44.2**	25,600	***1,180***	-	5.97	**73**	5,390	1.36	0.303	8,370	0.23	1,580	1.8	**99.6**	**137**
	HAC-01A	2014 10 01	***33,000***	0.56	***19.6***	319	1.02	< 1	35	**0.501**	89,500	***58.4***	**28.8**	***519***	***57,100***	***19.3***	**41.6**	26,000	***1,180***	-	6.86	63.4	5,250	1.65	0.367	8,510	0.207	1,800	1.9	**105**	**141**
	HAC-01A	2014 10 03	***31,400***	0.64	***17.9***	334	0.79	< 1	34	**0.451**	81,100	***61.8***	**26.9**	**404**	***51,100***	***16.4***	**33.7**	24,200	***1,300***	-	11.5	68.7	5,750	1.81	0.275	11,800	0.192	1,560	1.67	**101**	**122**
	HAC-01A	2014 10 04	***43,900***	0.67	***24.2***	424	1.19	< 1	37	**0.636**	99,500	***86.9***	**39.1**	***614***	***73,300***	***24.5***	**49.7**	31,900	***1,650***	-	8.26	97.6	6,570	1.88	0.432	10,000	0.292	**2,130**	2.51	**140**	**178**
	HAC-01A	2014 10 05	***49,500***	0.68	***30.1***	500	1.48	< 1	37	**0.832**	119,000	***95***	**44.5**	***795***	***95,700***	***28.9***	**61.2**	39,800	***1,820***	-	8.55	**103**	7,290	**2.35**	0.562	9,630	**0.318**	**2,770**	2.7	**168**	**210**
	HAC-01A	2014 10 06	***49,300***	0.59	***24.6***	426	1.36	< 1	37	**0.715**	115,000	***102***	**43.6**	***535***	***85,300***	***29.6***	**61.8**	36,800	***1,830***	-	6.7	**113**	6,780	1.75	0.448	9,810	**0.346**	**2,220**	2.52	**147**	**204**
	HAC-01A	2014 10 07	***42,800***	0.6	***23.1***	407	1.24	< 1	34	**0.617**	108,000	***84.9***	**39.1**	***561***	***82,300***	***27.7***	**58.7**	35,600	***1,560***	-	7.5	92.7	6,220	1.85	0.401	9,040	**0.317**	**2,350**	2.4	**130**	**187**
HAC03	HAC-03	2014 09 24	***5,210***	0.5	**5.88**	132	0.21	< 0.5	119	0.118	149,000	**2.53**	**4.55**	**338**	***6,590***	2.74	10.6	25,500	***837***	-	64.4	3.3	7,580	1.54	0.099	53,200	0.017	420	3.19	**26.9**	15.5
HAC05	HAC-05	2014 09 24	***3,410***	0.18	3.47	72.3	0.13	< 0.5	33	**0.06**	43,600	**2.82**	2.31	**151**	***3,940***	1.81	3.65	7,070	***151***	-	6.47	2.91	1,740	1.04	0.066	6,940	0.013	230	0.442	**14.4**	11.5
	HAC-05	2014 10 01	***1,630***	0.15	1.9	37.3	< 0.1	< 0.5	28	0.015	38,400	**1.13**	1.06	**61.1**	***1,700***	0.733	1.7	5,750	***69.6***	-	6.89	1.2	1,320	1	0.026	6,810	< 0.01	107	0.312	**6.8**	5.2
	HAC-05X	2014 10 01	***1,510***	0.15	1.9	34.2	< 0.1	< 0.5	28	0.021	39,600	**1.19**	1.03	**76.3**	***1,640***	0.721	1.69	5,940	***70.1***	-	7.09	1.24	1,230	1	0.027	6,840	< 0.01	99	0.313	**6.3**	6
	QA/QC RPD %		8	*	0	9	*	*	*	*	3	*	3	22	4	2	*	3	< 1	-	3	*	7	*	*	< 1	*	8	< 1	8	*
HAC07	HAC-07	2014 09 24	***2,040***	0.17	2.14	48.5	< 0.1	< 0.5	29	0.029	39,500	**1.82**	1.33	**70.9**	***2,140***	0.925	2.16	6,340	***84.9***	-	6.76	1.61	1,550	0.97	0.033	6,790	0.015	134	0.321	**8.3**	8

All terms defined within the body of SNC-Lavalin's report (available upon request).

< Denotes concentration less than indicated detection limit or RPD less than indicated value.

\- Denotes analysis not conducted.

n/a Denotes no applicable standard.

* RPDs are not normally calculated where one or more concentrations are less than five times MDL.

SHADED Concentration greater than BCWQG Aquatic Life (AW) guideline.

BOLD Concentration greater than BCWQG Drinking Water (DW) guideline.

SHADED Concentration greater than BCWQG Aquatic Life (30day) (AW) guideline.

BOLD Concentration greater than or equal to Canadian Drinking Water Quality (DW) guideline.

[a] Laboratory detection limit out of range.
[b] British Columbia Approved Water Quality Guidelines 2006 Edition, updated 2014.
[c] A Compendium of Working Water Quality Guidelines for British Columbia, updated August 2006.
[d] Guideline varies with pH, and or Temperature or Hardness or Chloride
[e] Health Canada Drinking Water Guidelines, 2012.
[f] Guideline for Nitrate applied.
[g] Stream criteria applies to deviation from optimum fish species temperature range. In this case, a reference to ambient is made since the background range (Minnow, 2014) is ~0-20.8°C (upper Hazeltine Creek).
[h] Calculated based on an individual sample basis, not average result basis.
[i] Secondary chronic or chronic value, not 30 day mean.
[j] Guideline not applicable for site situation.
[k] Based on a change from background at any one time. Prebreach range (Minnow, 2014) 0.34-6.99 NTU and <3-18 mg/L TSS.

Table 5: Summary of Exceedences for Mount Polley, Quesnel Lake from September 22 to October 8, 2014

Sampling Locations	Total Phosphorus	Dissolved Aluminum	Total Aluminum	Cadmium	Chromium	Copper	Iron	Manganese	Selenium	Vanadium	Zinc
	Number of exceedences during reporting period[a]										
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]		**5**				**75**					**3**
QUL-2						5					
QUL-2a						5					
QUL-18		1				4					
QUL-21						5					
QUL-21a						9					
QUL-23						1					
QUL-31a						5					
QUL-40						8					
QUL-40a						4					
QUL-66		2				6					
QUL-66a		2				6					
QUL-79						7					
QUL-87						1					
QUL-105						1					
QUL-120						6					1
QUL-126						1					1
QUL-129						1					1
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]	**42**	**1**		**4**	**24**	**47**	**23**		**1**	**3**	**2**
QUL-2	3				2	3	2				
QUL-2a	5				1	5	1				
QUL-18	4				3	4	3			1	
QUL-21	4				1	5	1				
QUL-21a	7				6	9	6				
QUL-31a						1					
QUL-40	1					2					
QUL-40a						1					
QUL-66	7	1		1	5	6	5				
QUL-66a	6				5	6	5			2	
QUL-79	1					2					
QUL-87	1										
QUL-112	1										
QUL-120	1					2					1
QUL-125					1				1		
QUL-126											1
QUL-129						1					
QUR-1	1										
BCWQG (Drinking Water) [Drinking Water]		**1**									
QUL-66		1									
Canadian Drinking Water Quality (Drinking Water) [Aesthethic Objectives]			**67**				**37**	**33**			
QUL-2			5				3	3			
QUL-2a			5				4	2			
QUL-18			4				4	4			
QUL-21			6				5	4			
QUL-21a			9				9	8			
QUL-31a			5								
QUL-40			9								
QUL-40a			2								
QUL-66			6				6	6			
QUL-66a			6				6	6			
QUL-79			7								
QUL-120			3								

[a] Number of exceedences recorded at given location during reporting period, including QAQC duplicate samples. Refer to analytical tables for details.

Table 6: Summary of Exceedences for Mount Polley, Polley Lake from September 22 to October 7, 2014

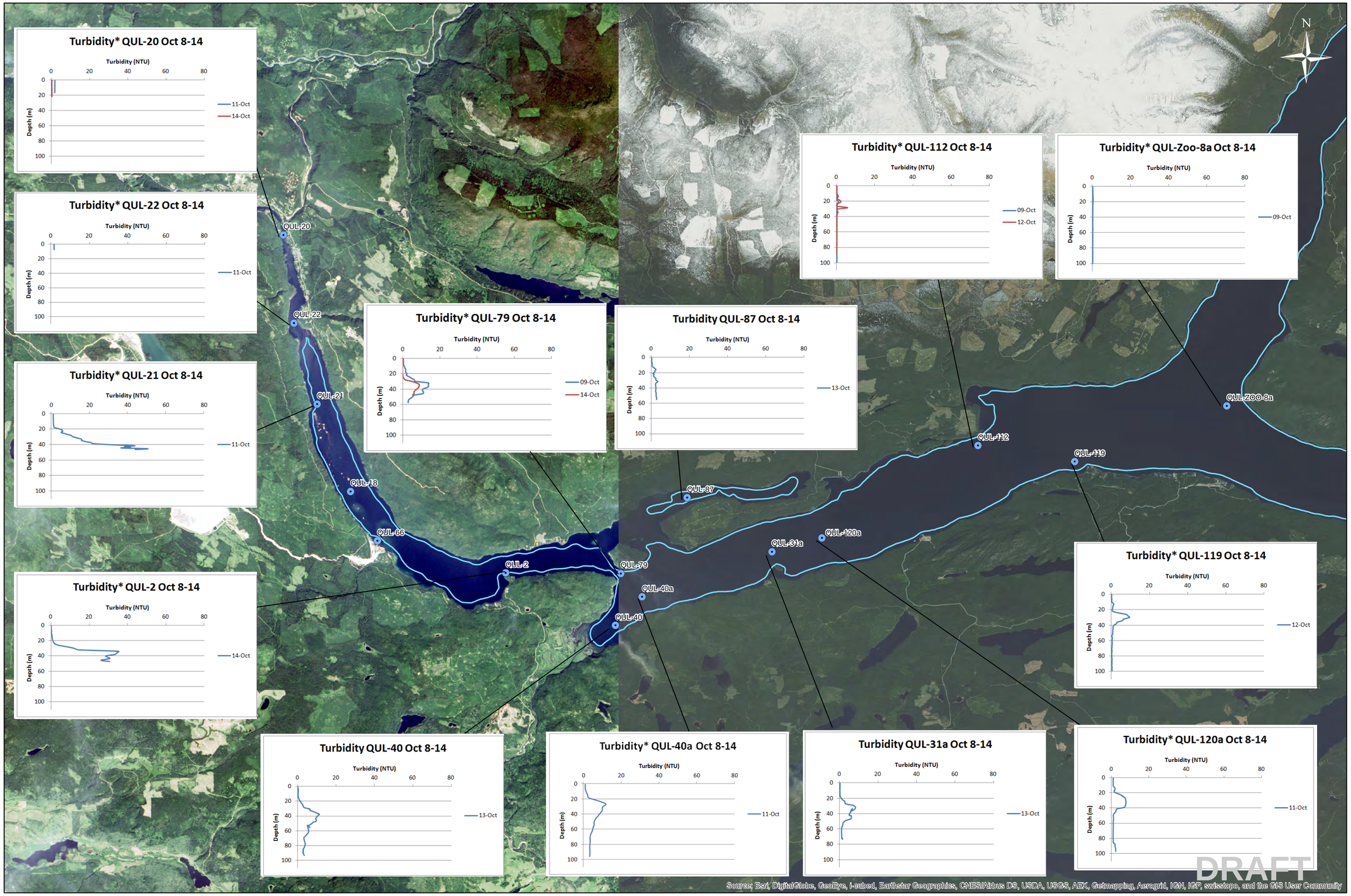
Sampling Locations	Total				pH	Nitrite	Total
	Aluminum	Copper	Iron	Manganese	Field	Nitrogen	Phosphorus
	Number of exceedences during reporting period[a]						
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]		**10**				**7**	
P1		4					
P2		3					
POL-5		2				5	
POL-6		1				2	
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]		**1**				**6**	**20**
P1							5
P2		1					5
POL-5						5	7
POL-6						1	3
BCWQG (Drinking Water) [Drinking Water]					**7**		**9**
P1					2		3
P2					2		3
POL-5					2		2
POL-6					1		1
Canadian Drinking Water Quality (Drinking Water) [Aesthethic Objectives]	**12**		**6**	**13**	**7**		
P1	3		3	3	2		
P2	3		3	3	2		
POL-5	4			5	2		
POL-6	2			2	1		

[a] Number of exceedences recorded at given location during reporting period, including QAQC duplicate samples. Refer to analytical tables for details.

Table 7: Summary of Exceedences for Mount Polley, Hazeltine Creek from September 22 to October 7, 2014

Sampling Locations	Turbidity	TSS	TDS	Nitrite Nitrogen	Total Phosphorus	Dissolved Aluminum	Dissolved Iron	Total Aluminum	Arsenic	Cadmium	Chromium	Cobalt	Copper	Iron	Lead	Lithium	Manganese	Nickel	Selenium	Thallium	Titanium	Vanadium	Zinc
	Number of exceedences during reporting period[a]																						
BCWQG (Aquatic Life (30day)) [Freshwater Aquatic Life (30day Av.)]	**19**	**19**		**2**		**9**						**15**	**19**		**14**	**14**	**14**						**14**
HAC01	4	4				4						4	4		4	4	4						4
HAC01A	10	10		1		5						10	10		10	10	10						10
HAC03	1	1										1	1										
HAC05	3	3											3										
HAC07	1	1											1										
HAD-1				1																			
BCWQG (Aquatic Life) [Freshwater Aquatic Life (General/Max)]	**19**	**19**		**1**		**7**	**2**		**15**	**15**	**19**		**19**	**19**			**5**	**10**	**6**	**8**	**11**	**19**	**14**
HAC01	4	4				4	2		4	4	4		4	4			5	8	4	4	4	4	4
HAC01A	10	10		1		3			10	10	10		10	10				2	2	4	7	10	10
HAC03	1	1							1		1		1	1								1	
HAC05	3	3								1	3		3	3								3	
HAC07	1	1									1		1	1								1	
BCWQG (Drinking Water) [Drinking Water]	**19**				**1**	**2**			**8**				**12**										
HAC01	4					2			7				4										
HAC01A	10				1				1				8										
HAC03	1																						
HAC05	3																						
HAC07	1																						
Canadian Drinking Water Quality (Drinking Water) [Aesthethic Objectives]			**1**					**19**					**6**	**19**			**19**						
HAC01								4					4	4			4						
HAC01A								10					2	10			10						
HAC03			1					1						1			1						
HAC05								3						3			3						
HAC07								1						1			1						
Canadian Drinking Water Quality (Drinking Water) [MAX]									**14**		**14**				**14**								
HAC01									5		5				4								
HAC01A									9		9				10								

[a] Number of exceedences recorded at given location during reporting period, including QAQC duplicate samples. Refer to analytical tables for details.



LEGEND

- Sampling Locations
- 30m Depth

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.
4. Turbidity profiles marked with an asterisk (*) are based on Sonde turbidity values that have been calibrated against Lamotte turbidity readings.

REFERENCES

0 950 1,900 3,800 5,700 7,600 Meters

1.Imagery from DigiGlobe World Imagery via ArcGIS Online

2. Bathymetry from MPMC

SNC · LAVALIN

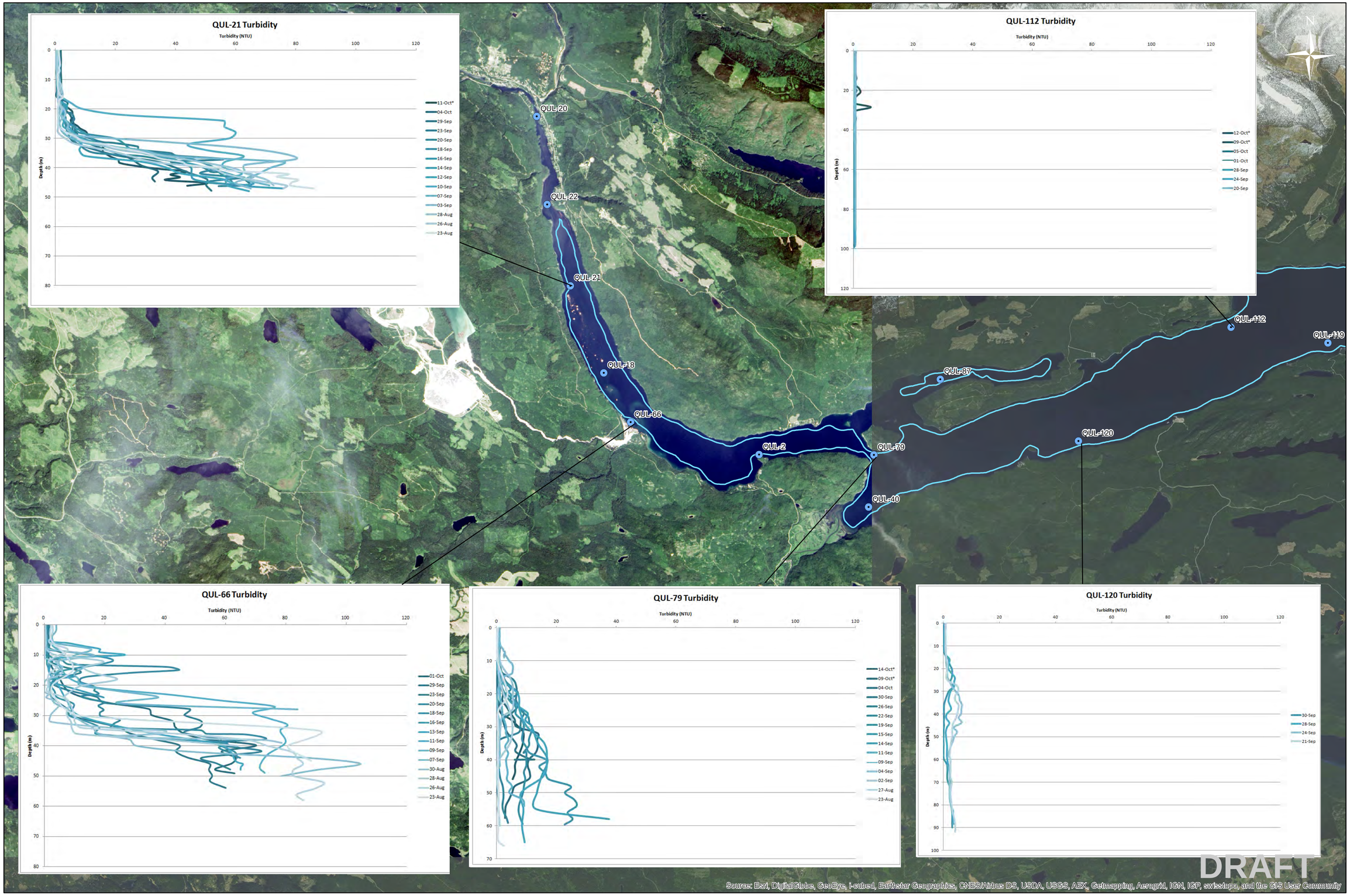
CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia

Turbidity Profiles - Oct 8-14, 2014

BY:	SCALE:	DATE:	REF No:	REV:
LH	1:100,000	2014/10/16	621717-001	0
CHK'D: CLKR	PROJ COORD SYS: NAD 1983 UTM Zone 10N			

MXD Path: P:\LOB\EIAM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\Water Quality - Profile Graph Maps\621717-WQ-TurbProfileGraphs_Oct8-14.mxd

Project Path:



LEGEND

- Sampling Locations
- 30m Depth

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.
4. Turbidity profiles marked with an asterisk (*) area based on Sonde turbidity values that have been calibrated against Lamotte turbidity readings.

REFERENCES

0 950 1,900 3,800 5,700 7,600 Meters

1.Imagery from DigiGlobe World Imagery via ArcGIS Online

2. Bathymetry from MPMC

SNC·LAVALIN

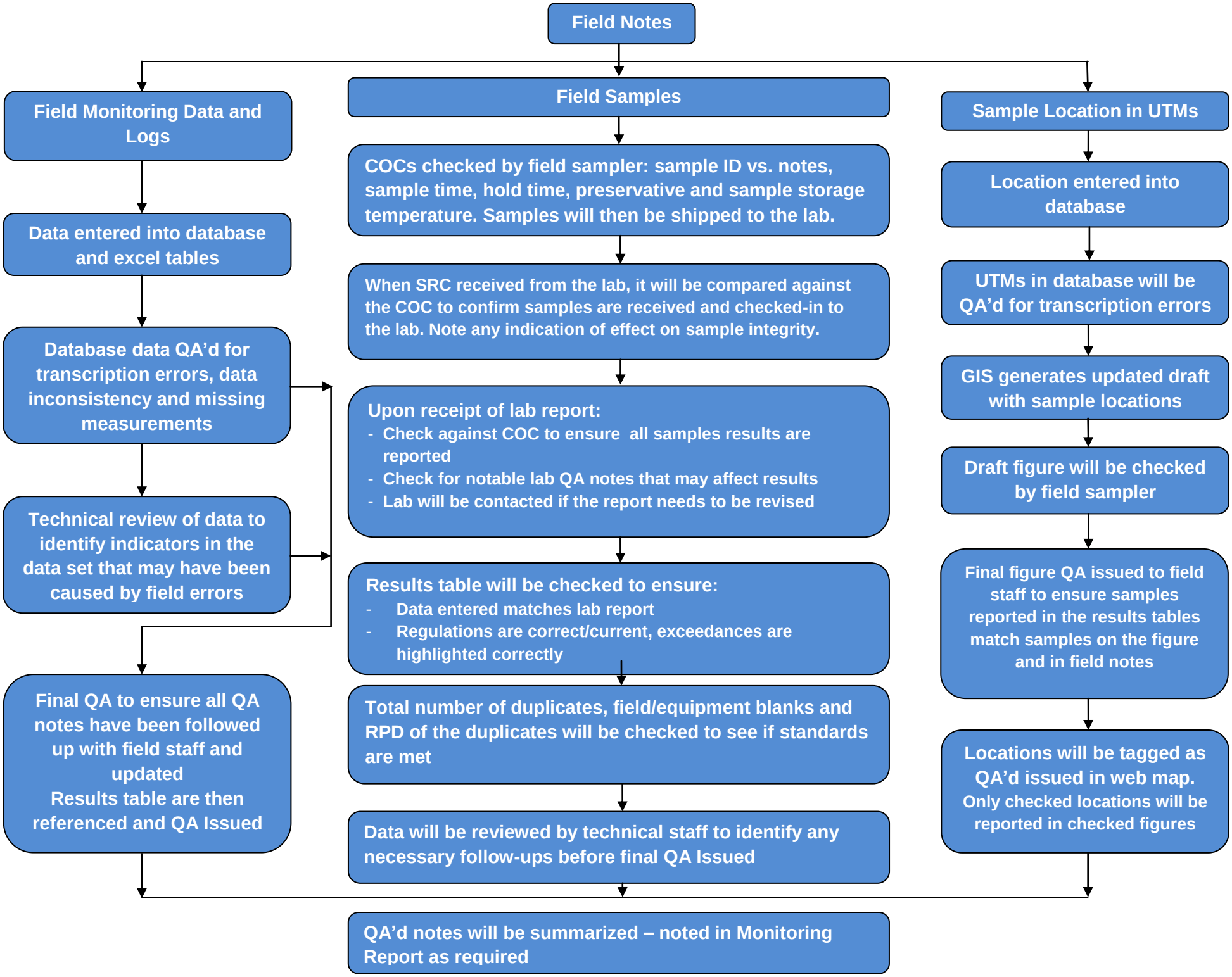
CLIENT NAME: MPMC	PROJECT LOCATION: Mount Polley Mine, British Columbia

Complete Turbidity Profiles - QUL-21, 66, 79, 112 & 120

BY:	SCALE:	DATE:	REF No:	REV:
LH	1:100,000	2014/10/15	621717-002	2
CHK'D: CLKR	PROJ COORD SYS: WGS 1984 UTM zone 10N			

MXD Path: P:\LOBIE\AM-BC\Current Projects\Mount Polley Mining Corporation\621717_Mount Polley Mine\4.0 Execution\4.5 GIS and Drawings\GIS\Water Quality - Profile Graph Maps\621717-WQ-TurbProfileGraphs_141015_QUL21-66-79-112-120.mxd

Project Path:


Field Notes
Field Monitoring Data and Logs
Data entered into database and excel tables
Database data QA'd for transcription errors, data inconsistency and missing measurements
Technical review of data to identify indicators in the data set that may have been caused by field errors
Final QA to ensure all QA notes have been followed up with field staff and updated
Results table are then referenced and QA Issued
Field Samples
COCs checked by field sampler: sample ID vs. notes, sample time, hold time, preservative and sample storage temperature. Samples will then be shipped to the lab.
When SRC received from the lab, it will be compared against the COC to confirm samples are received and checked-in to the lab. Note any indication of effect on sample integrity.
Upon receipt of lab report:
- Check against COC to ensure all samples results are reported
- Check for notable lab QA notes that may affect results
- Lab will be contacted if the report needs to be revised
Results table will be checked to ensure:
- Data entered matches lab report
- Regulations are correct/current, exceedances are highlighted correctly
Total number of duplicates, field/equipment blanks and RPD of the duplicates will be checked to see if standards are met
Data will be reviewed by technical staff to identify any necessary follow-ups before final QA Issued
Sample Location in UTMs
Location entered into database
UTMs in database will be QA'd for transcription errors
GIS generates updated draft with sample locations
Draft figure will be checked by field sampler
Final figure QA issued to field staff to ensure samples reported in the results tables match samples on the figure and in field notes
Locations will be tagged as QA'd issued in web map.
Only checked locations will be reported in checked figures
QA'd notes will be summarized – noted in Monitoring Report as required

Legend

COC – Chain of Custody
GIS – Geology Information System
ID – Identification number
QA – quality assured
RPD - Relative Percent Difference
SRC – Sample Receive Confirmation
UTM - Universal Transverse Mercator