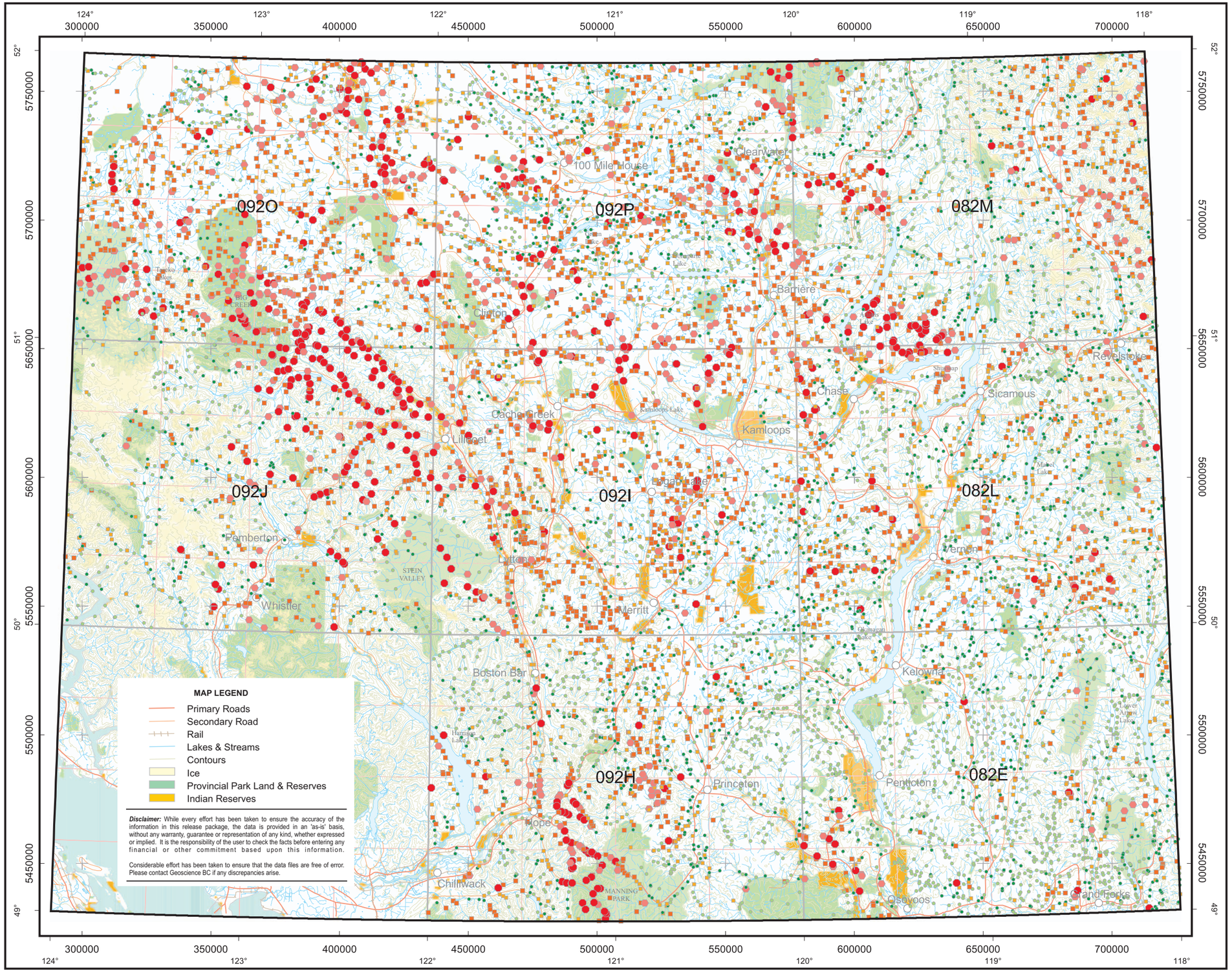


Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Cobalt (Co)

Percentile	Concentrations Stream	Lake	Till
MAX	212.0	66.9	25.7
95TH	21.9	15.1	22.8
90TH	18.0	11.7	20.6
70TH	12.2	7.1	16.7
50TH	9.0	5.0	14.2
30TH	6.4	3.4	10.7
MIN	0.4	0.4	4.9

Summary Statistics

Stream Sediments

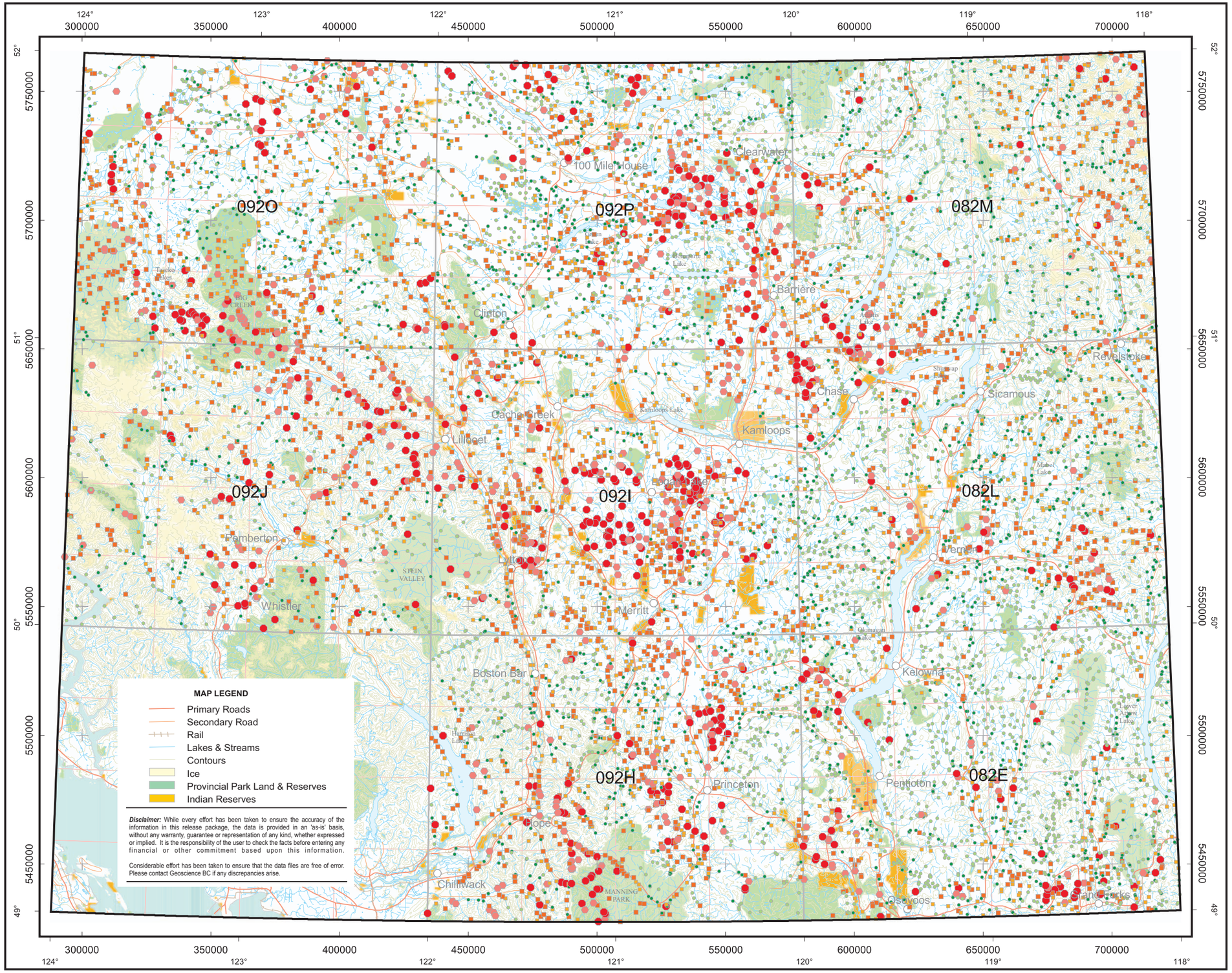
Variable -	Co	*Mean* -	10.40
Units -	ppm	*Median* -	9.00
DL -	0.1	*Mode* -	6.90
Method -	ICPMS	*Range* -	211.6
N -	8545	*StD* -	7.48
N>DL -	8545	*CV* -	0.719

Lake Sediments

Variable -	Co	*Mean* -	6.31
Units -	ppm	*Median* -	5.00
DL -	0.1	*Mode* -	3.10
Method -	ICPMS	*Range* -	66.5
N -	769	*StD* -	5.10
N>DL -	769	*CV* -	0.807

Basal Till Samples

Variable -	Co	*Mean* -	14.19
Units -	ppm	*Median* -	14.20
DL -	0.1	*Mode* -	17.80
Method -	ICPMS	*Range* -	20.8
N -	190	*StD* -	4.74
N>DL -	190	*CV* -	0.334



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Copper (Cu)

Percentile	Concentrations Stream	Lake	Till
MAX	1790.00	86.48	342.60
95TH	69.70	44.99	168.30
90TH	52.30	33.97	140.10
70TH	30.40	19.31	76.90
50TH	20.40	12.52	54.70
30TH	13.55	8.42	39.50
MIN	0.45	0.73	17.40

Summary Statistics

Stream Sediments

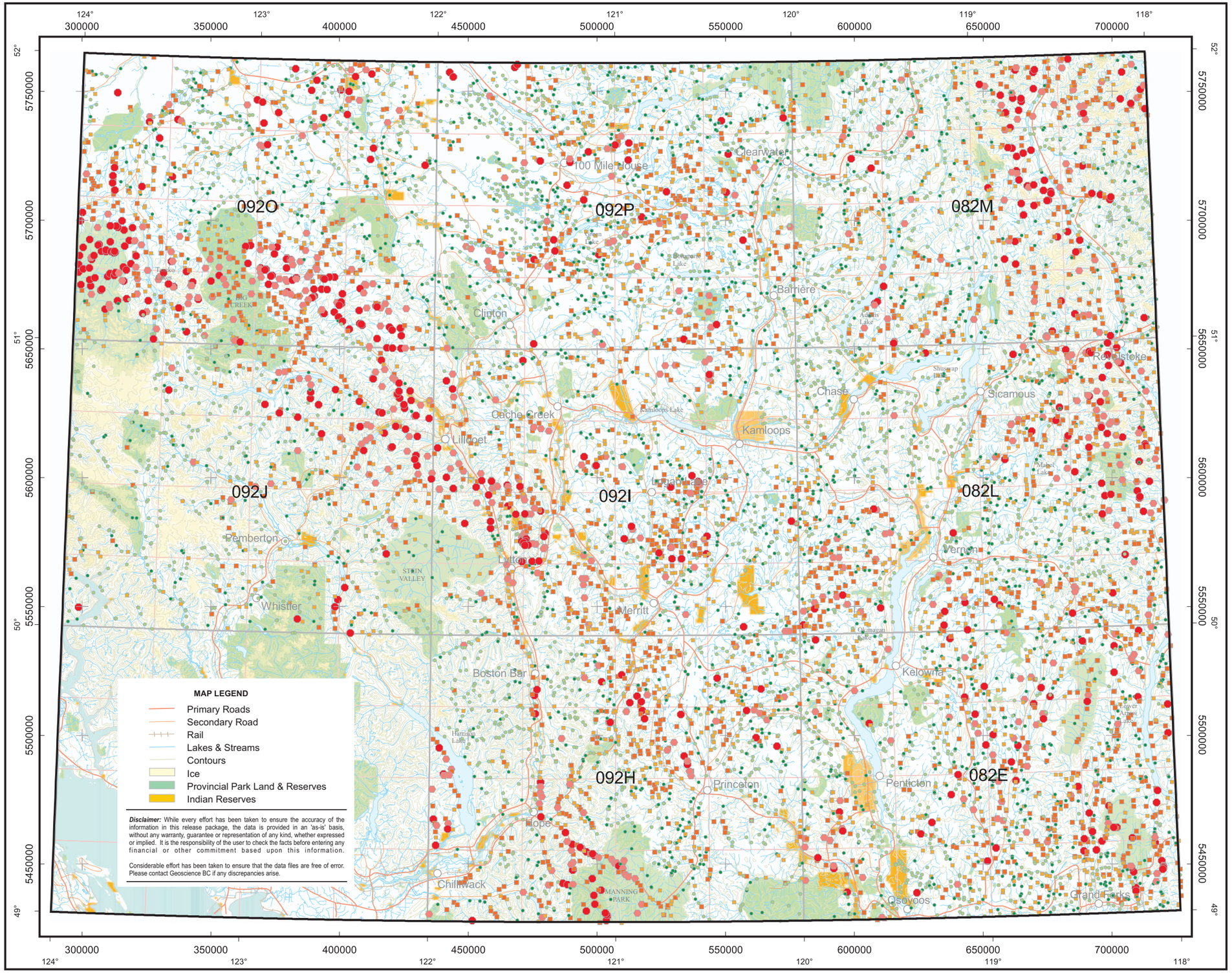
Variable -	Cu	*Mean* -	28.78
Units -	ppm	*Median* -	20.40
DL -	0.01	*Mode* -	20.30
Method -	ICPMS	*Range* -	1789.55
N -	8545	*StD* -	44.39
N>DL -	8545	*CV* -	1.543

Lake Sediments

Variable -	Cu	*Mean* -	16.63
Units -	ppm	*Median* -	12.52
DL -	0.01	*Mode* -	8.91
Method -	ICPMS	*Range* -	85.75
N -	769	*StD* -	13.05
N>DL -	769	*CV* -	0.785

Basal Till Samples

Variable -	Cu	*Mean* -	70.11
Units -	ppm	*Median* -	54.70
DL -	0.01	*Mode* -	48.10
Method -	ICPMS	*Range* -	325.20
N -	190	*StD* -	49.89
N>DL -	190	*CV* -	0.712



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Gallium (Ga)

Percentile	Concentrations Stream	Lake	Till
MAX	19.65	35.50	9.00
95TH	7.99	4.50	7.50
90TH	7.01	3.30	7.30
70TH	5.20	1.50	6.10
50TH	4.20	0.90	5.50
30TH	3.40	0.50	5.00
MIN	0.13	0.10	3.10

Summary Statistics

Stream Sediments

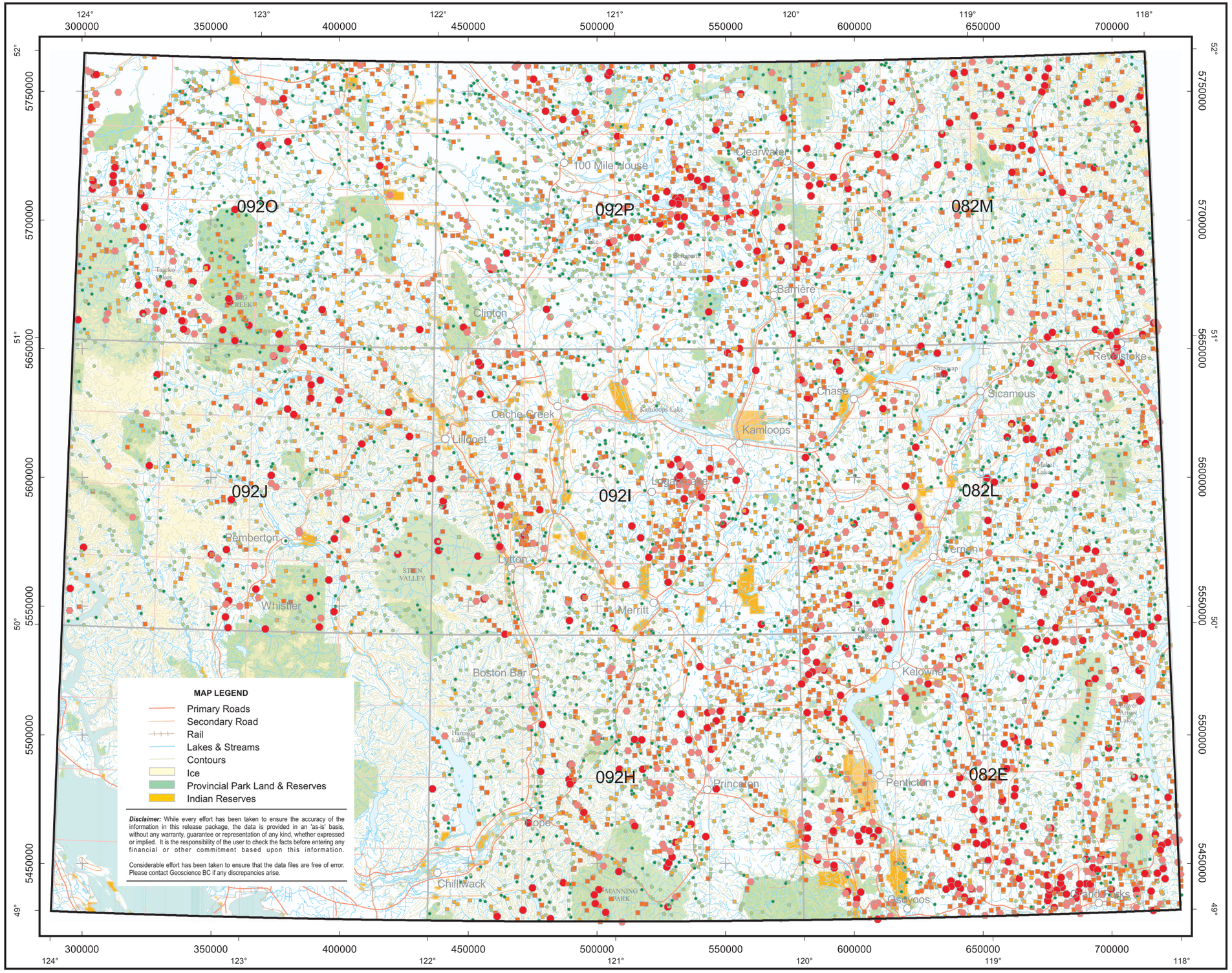
Variable -	Ga	*Mean* -	4.50
Units -	ppm	*Median* -	4.20
DL -	0.05	*Mode* -	3.50
Method -	ICPMS	*Range* -	19.52
N -	8545	*StD* -	1.92
N>DL -	8545	*CV* -	0.425

Lake Sediments

Variable -	Ga	*Mean* -	1.41
Units -	ppm	*Median* -	0.90
DL -	0.05	*Mode* -	0.30
Method -	ICPMS	*Range* -	35.40
N -	769	*StD* -	1.89
N>DL -	769	*CV* -	1.334

Basal Till Samples

Variable -	Ga	*Mean* -	5.59
Units -	ppm	*Median* -	5.50
DL -	0.05	*Mode* -	5.70
Method -	ICPMS	*Range* -	5.90
N -	190	*StD* -	1.22
N>DL -	190	*CV* -	0.218



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Gold (Au)

Percentile	Concentrations Stream	Lake	Till
MAX	9720.0	11.0	55.0
95TH	7.8	1.7	23.6
90TH	4.6	1.2	14.7
70TH	2.1	0.6	6.0
50TH	1.3	0.4	4.5
30TH	0.8	0.2	3.3
MIN	0.2	0.2	1.2

Summary Statistics

Stream Sediments

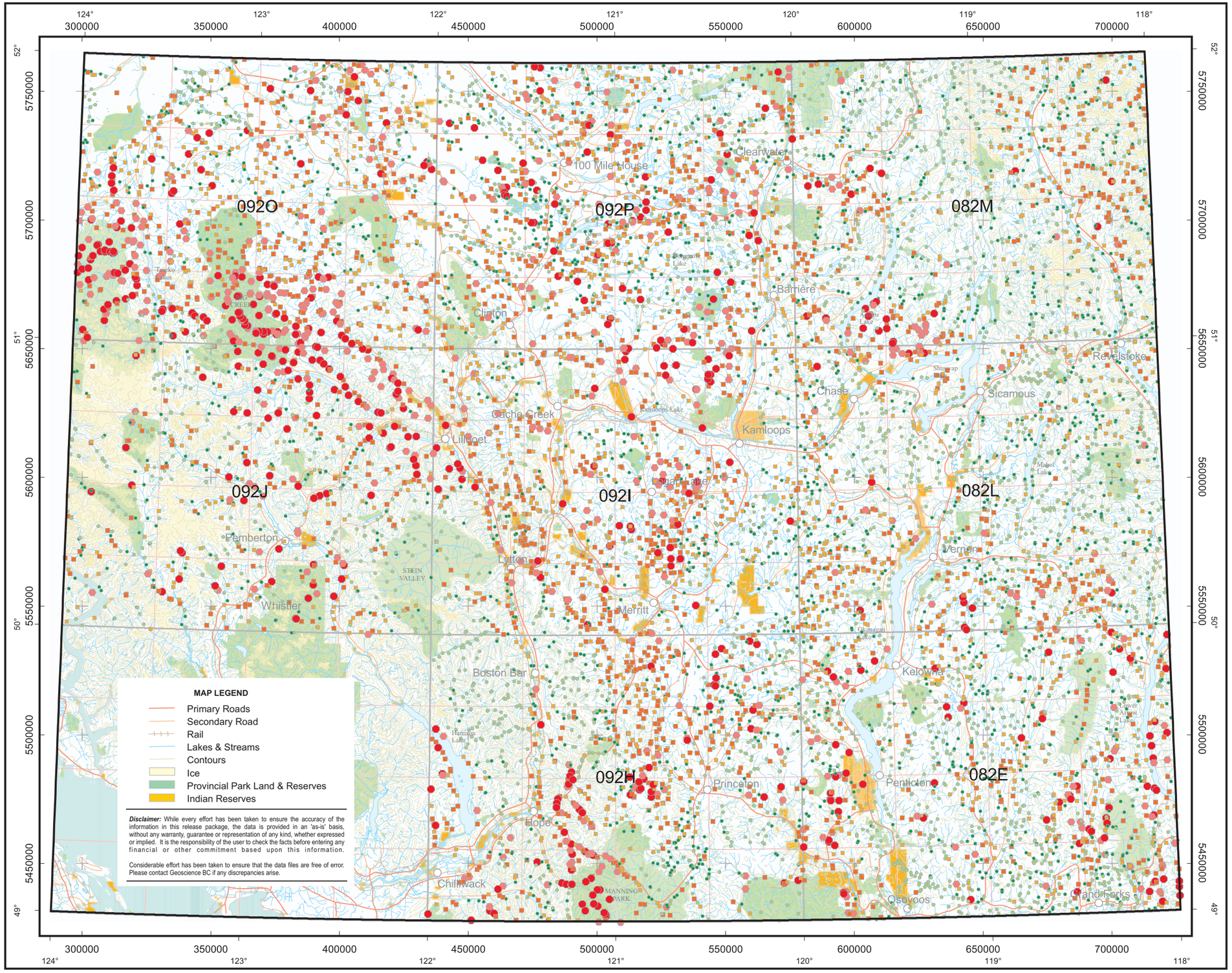
Variable -	Au	*Mean* -	6.85
Units -	ppb	*Median* -	1.30
DL -	0.2	*Mode* -	0.20
Method -	ICPMS	*Range* -	9719.8
N -	8545	*StD* -	132.56
N>DL -	7485	*CV* -	19.348

Lake Sediments

Variable -	Au	*Mean* -	0.58
Units -	ppb	*Median* -	0.40
DL -	0.2	*Mode* -	0.20
Method -	ICPMS	*Range* -	10.8
N -	769	*StD* -	0.69
N>DL -	482	*CV* -	1.188

Basal Till Samples

Variable -	Au	*Mean* -	7.05
Units -	ppb	*Median* -	4.50
DL -	0.2	*Mode* -	5.20
Method -	ICPMS	*Range* -	53.8
N -	190	*StD* -	7.76
N>DL -	190	*CV* -	1.101



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Iron (Fe)

Percentile	Concentrations Stream	Lake	Till
MAX	26.00	7.39	5.88
95TH	4.63	3.23	4.70
90TH	4.01	2.70	4.52
70TH	2.97	1.48	3.86
50TH	2.40	0.98	3.35
30TH	1.87	0.65	2.92
MIN	0.07	0.10	1.74

Summary Statistics

Stream Sediments

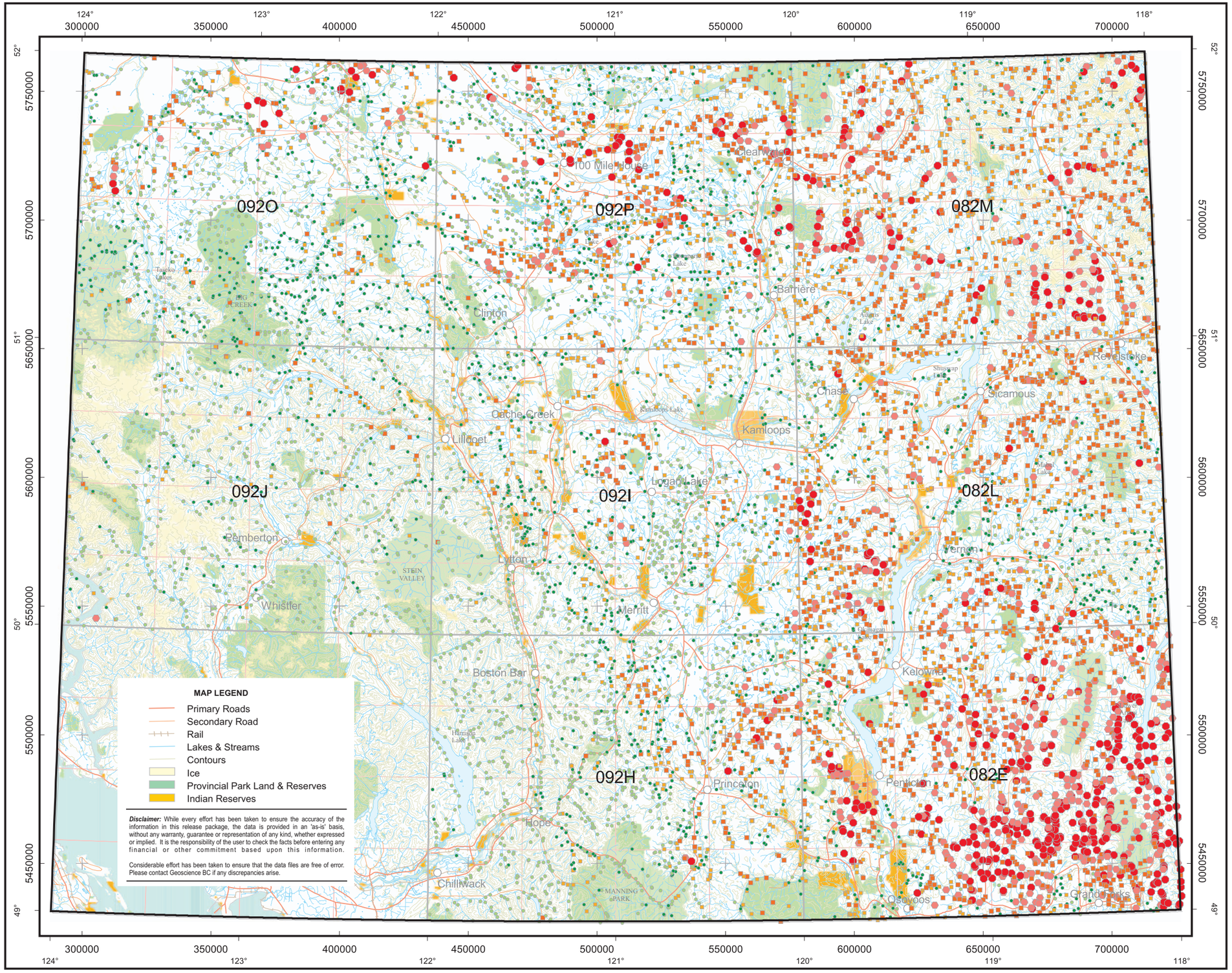
Variable -	Fe	*Mean* -	2.55
Units -	%	*Median* -	2.40
DL -	0.01	*Mode* -	2.31
Method -	ICPMS	*Range* -	25.93
N -	8545	*StD* -	1.25
N>DL -	8545	*CV* -	0.489

Lake Sediments

Variable -	Fe	*Mean* -	1.29
Units -	%	*Median* -	0.98
DL -	0.01	*Mode* -	0.65
Method -	ICPMS	*Range* -	7.29
N -	769	*StD* -	1.04
N>DL -	769	*CV* -	0.810

Basal Till Samples

Variable -	Fe	*Mean* -	3.45
Units -	%	*Median* -	3.35
DL -	0.01	*Mode* -	3.07
Method -	ICPMS	*Range* -	4.14
N -	190	*StD* -	0.78
N>DL -	190	*CV* -	0.226



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100

Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Lanthanum (La)

Percentile	Concentrations Stream	Lake	Till
MAX	250.0	20.3	26.0
95TH	49.0	7.6	20.0
90TH	33.2	5.7	17.5
70TH	17.2	2.6	13.5
50TH	11.5	1.5	11.0
30TH	7.8	0.8	9.5
MIN	0.3	0.5	5.5

Summary Statistics

Stream Sediments

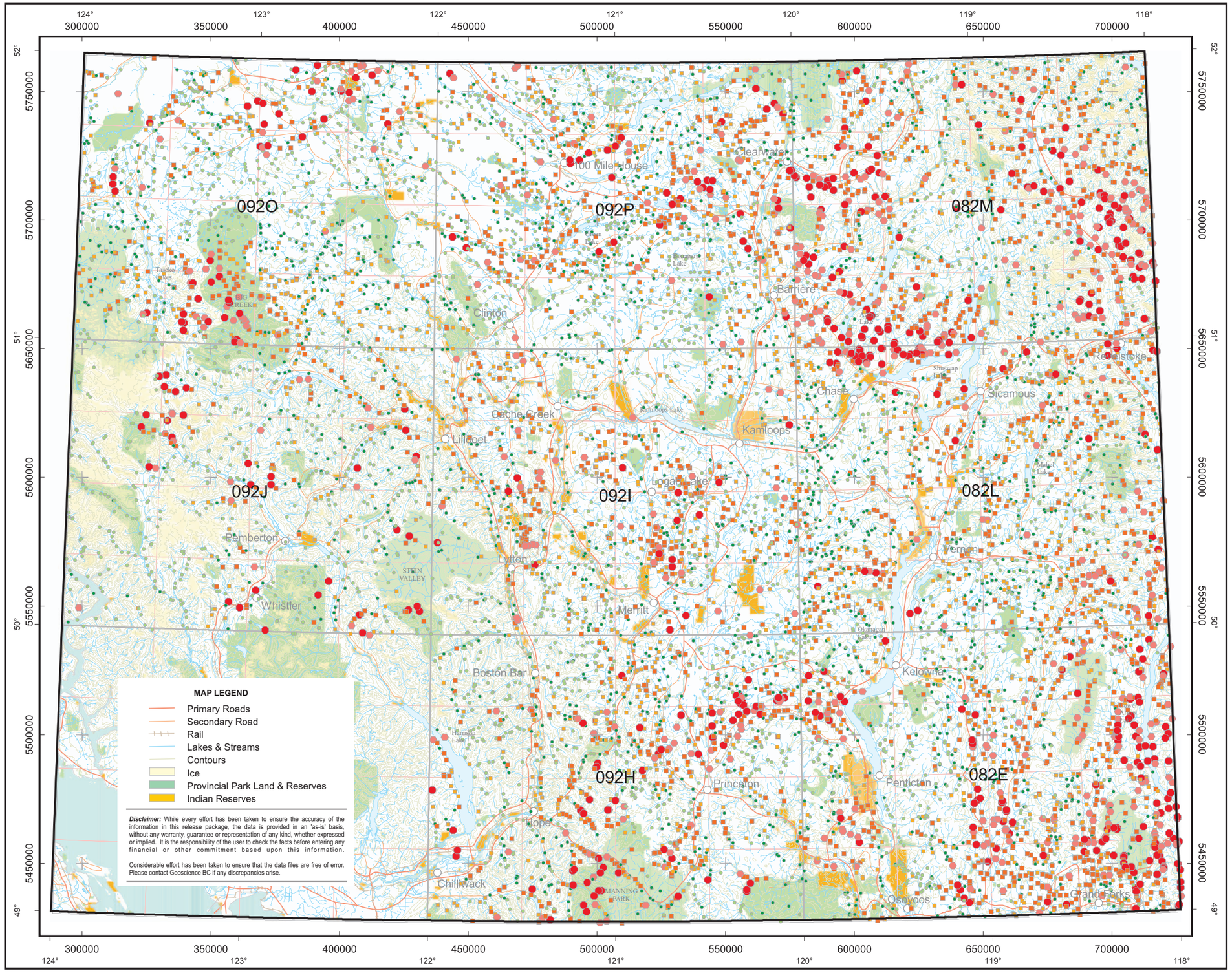
Variable -	La	*Mean* -	16.64
Units -	ppm	*Median* -	11.50
DL -	0.2	*Mode* -	9.00
Method -	ICPMS	*Range* -	249.7
N -	8545	*StD* -	17.63
N>DL -	8545	*CV* -	1.059

Lake Sediments

Variable -	La	*Mean* -	2.42
Units -	ppm	*Median* -	1.50
DL -	0.2	*Mode* -	0.50
Method -	ICPMS	*Range* -	19.8
N -	769	*StD* -	2.56
N>DL -	769	*CV* -	1.055

Basal Till Samples

Variable -	La	*Mean* -	11.91
Units -	ppm	*Median* -	11.00
DL -	0.2	*Mode* -	10.50
Method -	ICPMS	*Range* -	20.5
N -	190	*StD* -	4.18
N>DL -	190	*CV* -	0.351



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Lead (Pb)

Percentile	Concentrations Stream	Lake	Till
MAX	1050.00	13.42	26.28
95TH	18.40	4.82	13.22
90TH	13.25	3.87	9.73
70TH	7.71	2.10	7.48
50TH	5.48	1.48	6.28
30TH	3.93	1.08	5.41
MIN	0.31	0.27	2.49

Summary Statistics

Stream Sediments

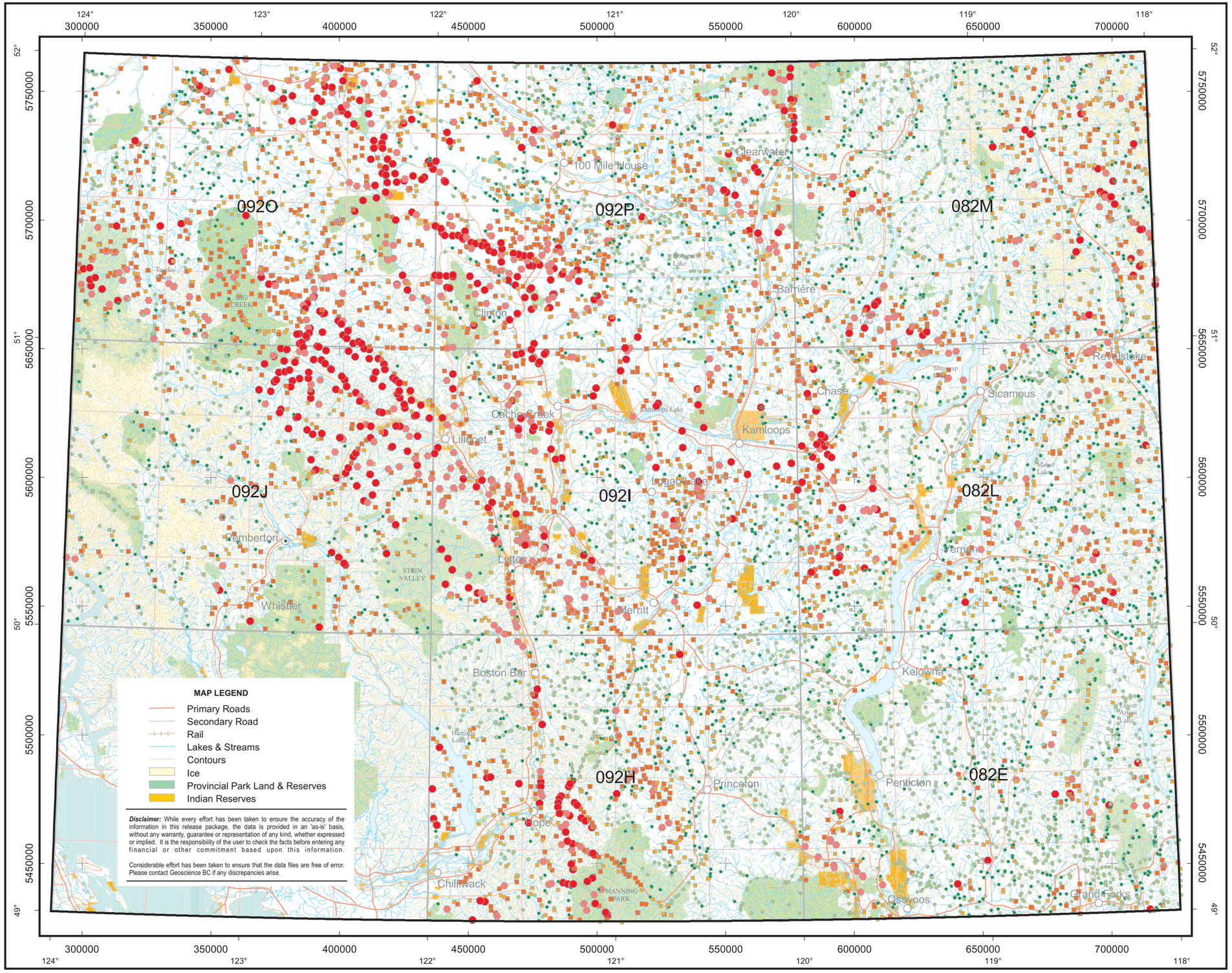
Variable -	Pb	*Mean* -	7.95
Units -	ppm	*Median* -	5.48
DL -	0.01	*Mode* -	2.93
Method -	ICPMS	*Range* -	1049.69
N -	8545	*StD* -	20.99
N>DL -	8545	*CV* -	2.639

Lake Sediments

Variable -	Pb	*Mean* -	1.93
Units -	ppm	*Median* -	1.48
DL -	0.01	*Mode* -	0.86
Method -	ICPMS	*Range* -	13.15
N -	769	*StD* -	1.47
N>DL -	769	*CV* -	0.764

Basal Till Samples

Variable -	Pb	*Mean* -	6.95
Units -	ppm	*Median* -	6.28
DL -	0.01	*Mode* -	6.33
Method -	ICPMS	*Range* -	23.79
N -	190	*StD* -	3.02
N>DL -	190	*CV* -	0.435



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100

Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Magnesium (Mg)

Percentile	Concentrations Stream	Lake	Till
MAX	20.20	19.45	2.56
95TH	1.51	11.23	1.81
90TH	1.16	8.97	1.66
70TH	0.72	3.24	1.24
50TH	0.52	1.06	1.03
30TH	0.36	0.64	0.83
MIN	0.02	0.17	0.30

Summary Statistics

Stream Sediments

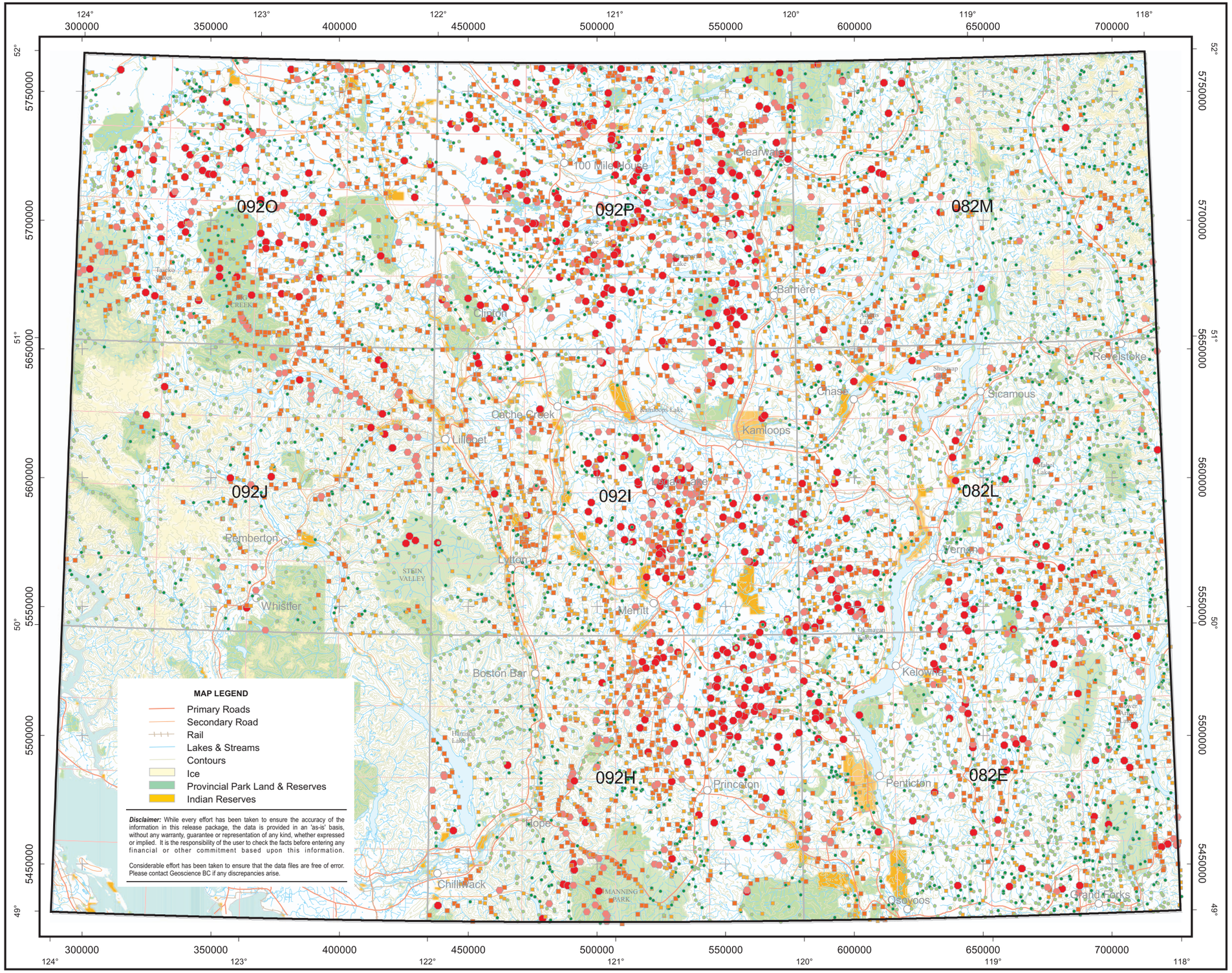
Variable -	Mg	*Mean* -	0.68
Units -	%	*Median* -	0.52
DL -	0.01	*Mode* -	0.37
Method -	ICPMS	*Range* -	20.18
N -	8545	*StD* -	0.89
N>DL -	8545	*CV* -	1.308

Lake Sediments

Variable -	Mg	*Mean* -	3.00
Units -	%	*Median* -	1.06
DL -	0.01	*Mode* -	0.46
Method -	ICPMS	*Range* -	19.28
N -	769	*StD* -	3.66
N>DL -	769	*CV* -	1.221

Basal Till Samples

Variable -	Mg	*Mean* -	1.08
Units -	%	*Median* -	1.03
DL -	0.01	*Mode* -	0.96
Method -	ICPMS	*Range* -	2.26
N -	190	*StD* -	0.42
N>DL -	190	*CV* -	0.394



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Manganese (Mn)

Percentile	Concentrations Stream	Lake	Till
MAX	46100	5609	1658
95TH	1418	1724	1080
90TH	993	1352	964
70TH	599	712	791
50TH	434	476	650
30TH	308	286	521
MIN	24	30	186

Summary Statistics

Stream Sediments

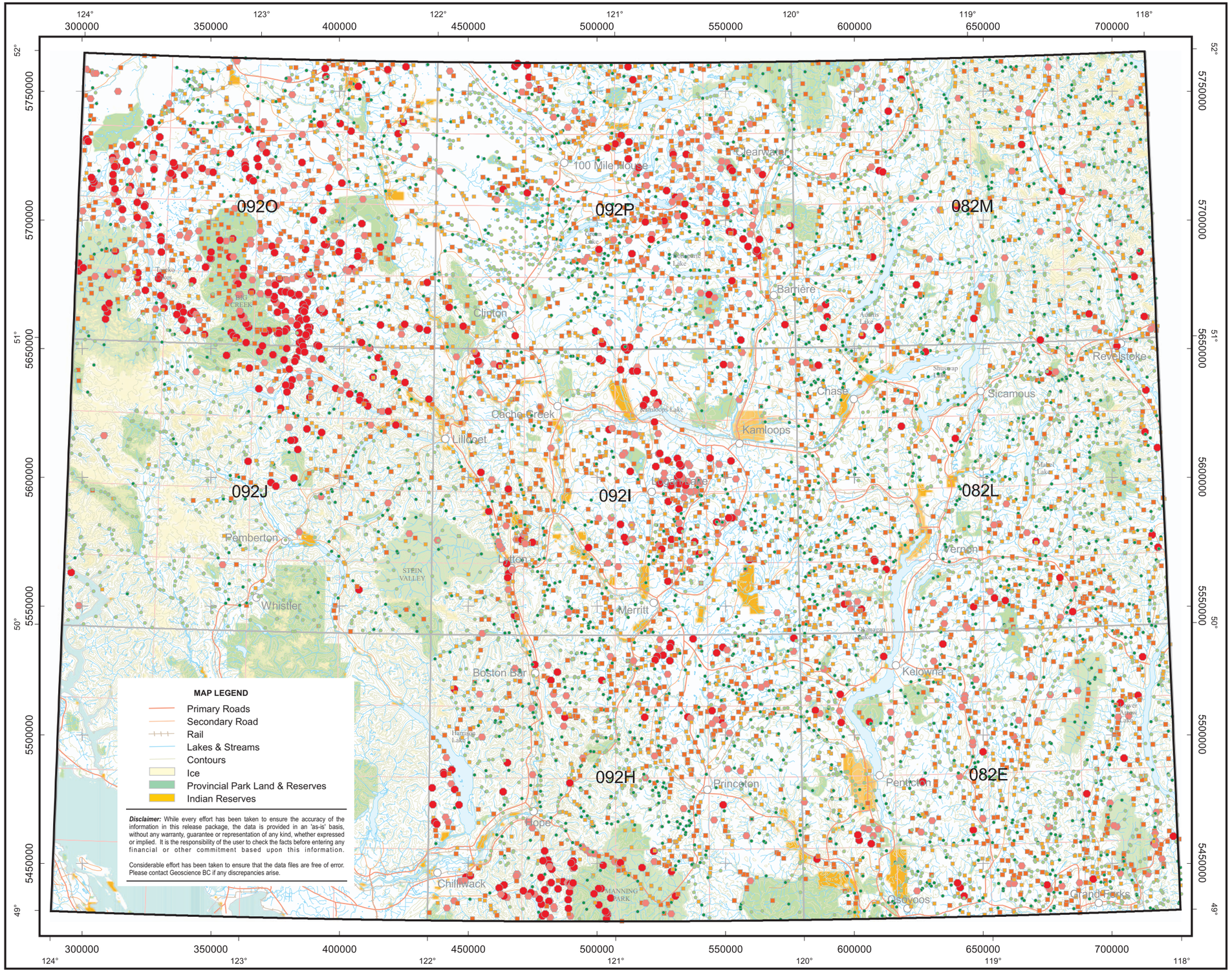
Variable -	Mn	*Mean* -	601.0
Units -	ppm	*Median* -	434.0
DL -	1	*Mode* -	261.0
Method -	ICPMS	*Range* -	46076
N -	8545	*StD* -	965.55
N>DL -	8545	*CV* -	1.607

Lake Sediments

Variable -	Mn	*Mean* -	632.2
Units -	ppm	*Median* -	476.0
DL -	1	*Mode* -	170.0
Method -	ICPMS	*Range* -	5579
N -	769	*StD* -	577.18
N>DL -	769	*CV* -	0.913

Basal Till Samples

Variable -	Mn	*Mean* -	675.1
Units -	ppm	*Median* -	650.0
DL -	1	*Mode* -	723.0
Method -	ICPMS	*Range* -	1472
N -	190	*StD* -	245.94
N>DL -	190	*CV* -	0.364



Geoscience BC

Report 2010 - 13

QUEST South Regional Geochemical Data

SOUTHERN BRITISH COLUMBIA

(082E, L, M; 092H, I, J, O & P)

0 50 100
Kilometres

TRANSVERSE MERCATOR PROJECTION
NORTH AMERICAN DATUM 1983

Mercury (Hg)

Percentile	Concentrations Stream	Lake	Till
MAX	17500	131	470
95TH	137	52	180
90TH	97	43	120
70TH	51	26	60
50TH	35	18	40
30TH	24	12	25
MIN	5	5	5

Summary Statistics

Stream Sediments

Variable -	Hg	*Mean* -	58.1
Units -	ppb	*Median* -	35.0
DL -	5	*Mode* -	25.0
Method -	ICPMS	*Range* -	17495
N -	8545	*StD* -	259.32
N>DL -	8463	*CV* -	4.461

Lake Sediments

Variable -	Hg	*Mean* -	22.2
Units -	ppb	*Median* -	18.0
DL -	5	*Mode* -	5.0
Method -	ICPMS	*Range* -	126
N -	769	*StD* -	16.57
N>DL -	697	*CV* -	0.748

Basal Till Samples

Variable -	Hg	*Mean* -	56.6
Units -	ppb	*Median* -	40.0
DL -	5	*Mode* -	15.0
Method -	ICPMS	*Range* -	465
N -	190	*StD* -	60.33
N>DL -	188	*CV* -	1.066