



Certificate of Analysis

Work Order : VC131077

[Report File No.: 0000000980]

To: **Chris S. LeBlanc**
COD SGS ASSAYERS
C/O F406501 SGS ASSAYERS
8282 SHERBROOKE STREET
VANCOUVER BC V5X 4R6

Date: Jun 03, 2013

P.O. No. : Northern Waterworks RL1301282PC/LD130116
Project No. : -
No. Of Samples : 20
Date Submitted : May 13, 2013
Report Comprises : Pages 1 to 7
(Inclusive of Cover Sheet)

Distribution of unused material:

Active files:

Comments:

ICM12B package.

Boron values are informational only.

Certified By :



Satpaul Gill
QAQC Chemist

SGS Minerals Services Geochemistry Vancouver conforms to the requirements of ISO/IEC 17025 for specific tests as listed on their scope of accreditation which can be found at <http://www.scc.ca/en/search/palcan/sgs>

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted

Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Element Method Det.Lim. Units	Al ICM12B 0.01 %	B ICM12B 10 ppm	Ba ICM12B 5 ppm	Ca ICM12B 0.01 %	Cr ICM12B 1 ppm	Cu ICM12B 0.5 ppm	Fe ICM12B 0.01 %	K ICM12B 0.01 %	Li ICM12B 1 ppm	Mg ICM12B 0.01 %
TR11-001-13	2.00	20	44	0.55	36	192	7.32	0.30	29	0.73
TR11-002-13	1.43	10	37	0.79	47	256	7.53	0.22	26	0.56
TR11-003-13	3.26	40	61	0.88	31	339	8.36	0.53	70	1.10
TR11-004-13	1.81	20	37	0.29	36	243	8.48	0.41	47	0.79
TR11-005-13	1.40	30	41	2.14	26	112	5.18	0.30	27	0.77
TR11-006-13	0.20	30	18	0.85	24	38.4	3.64	0.03	3	0.18
TR11-007-13	0.04	30	8	0.68	34	22.2	2.03	0.01	<1	0.04
TR11-008-13	0.85	<10	68	0.95	26	108	12.2	0.07	8	0.80
TR11-009-13	0.07	30	13	1.63	25	44.4	3.03	<0.01	<1	0.05
TR11-010-13	1.11	20	29	0.90	55	61.7	5.35	0.04	17	0.93
TR11-011-13	0.20	10	29	2.76	16	53.7	7.46	0.03	2	0.12
TR11-012-13	0.29	<10	51	1.63	27	31.7	10.3	0.05	3	0.18
TR11-013-13	1.24	30	186	0.63	134	75.0	2.18	0.40	25	1.04
TR11-014-13	2.83	30	42	0.78	23	239	7.99	0.74	52	1.10
TR11-015-13	0.65	40	13	1.08	56	39.8	1.28	0.05	9	0.78
TR11-016-13	4.83	20	67	2.03	43	665	12.7	0.46	50	1.01
CTR11-001-13	0.10	30	16	1.47	22	29.0	4.60	0.01	<1	0.16
CTR11-002-13	2.63	10	53	0.39	21	328	10.6	0.44	43	0.84
CTR11-003-13	0.98	40	64	0.77	142	85.7	1.82	0.24	12	0.76
SPZ-001-13	0.06	40	<5	0.06	33	393	0.82	0.01	2	0.05

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Element Method Det.Lim. Units	Mn ICM12B 2 ppm	Na ICM12B 0.01 %	Ni ICM12B 0.5 ppm	P ICM12B 50 ppm	S ICM12B 0.01 %	Ti ICM12B 0.01 %	V ICM12B 1 ppm	Zn ICM12B 1 ppm	Zr ICM12B 0.5 ppm	Sr ICM12B 0.5 ppm
TR11-001-13	395	0.04	58.6	230	3.39	0.04	33	519	16.3	8.7
TR11-002-13	650	0.03	57.9	170	3.83	0.02	27	554	14.1	5.5
TR11-003-13	293	0.07	68.2	440	>5.00	0.02	49	1220	27.0	13.2
TR11-004-13	269	0.02	79.7	270	>5.00	0.03	44	958	19.9	4.2
TR11-005-13	936	0.04	34.3	150	2.39	0.02	27	560	9.9	11.0
TR11-006-13	777	0.01	13.0	60	0.53	<0.01	5	27	2.0	4.4
TR11-007-13	463	<0.01	8.0	<50	0.39	<0.01	2	9	0.7	3.6
TR11-008-13	1870	0.03	29.8	160	0.08	0.04	17	51	7.6	10.1
TR11-009-13	569	<0.01	9.4	100	0.46	<0.01	3	7	1.2	9.0
TR11-010-13	646	0.07	28.5	310	0.24	0.03	38	22	3.2	7.9
TR11-011-13	701	0.02	14.1	370	1.22	0.01	7	20	3.1	12.1
TR11-012-13	655	0.03	17.9	580	0.52	0.02	22	18	3.2	9.5
TR11-013-13	257	0.08	45.9	220	0.04	0.09	68	23	3.4	6.9
TR11-014-13	315	0.10	69.3	370	>5.00	0.03	32	916	33.3	10.3
TR11-015-13	234	0.08	26.1	200	0.04	0.06	34	14	3.1	5.1
TR11-016-13	233	0.14	130	310	>5.00	0.07	49	667	32.4	32.4
CTR11-001-13	518	<0.01	8.7	60	0.85	<0.01	8	3	1.3	4.8
CTR11-002-13	200	0.06	86.3	280	>5.00	0.01	30	432	51.4	7.6
CTR11-003-13	198	0.07	104	170	0.10	0.07	39	12	2.5	7.7
SPZ-001-13	91	0.01	9.3	<50	0.07	<0.01	4	4	0.9	1.7

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Element Method Det.Lim. Units	Ag ICM12B 0.01 ppm	As ICM12B 1 ppm	Be ICM12B 0.1 ppm	Bi ICM12B 0.02 ppm	Cd ICM12B 0.01 ppm	Ce ICM12B 0.05 ppm	Co ICM12B 0.1 ppm	Cs ICM12B 0.05 ppm	Ga ICM12B 0.1 ppm	Ge ICM12B 0.1 ppm
TR11-001-13	0.71	108	0.7	0.64	1.45	19.8	12.9	1.05	7.3	<0.1
TR11-002-13	0.68	118	0.6	0.65	1.65	19.7	12.6	0.48	5.0	<0.1
TR11-003-13	0.79	12	1.1	0.95	3.52	16.5	10.3	1.08	10.7	<0.1
TR11-004-13	0.88	80	0.6	0.89	2.73	14.6	12.1	0.78	7.3	<0.1
TR11-005-13	0.31	109	0.4	0.38	1.85	14.2	6.3	0.66	4.9	<0.1
TR11-006-13	0.11	5	0.2	0.06	0.10	11.4	4.9	0.08	0.9	<0.1
TR11-007-13	0.06	5	<0.1	0.03	0.03	3.83	3.3	<0.05	0.3	<0.1
TR11-008-13	0.08	7	0.5	0.24	0.16	48.2	8.2	0.71	2.6	0.2
TR11-009-13	0.06	6	<0.1	0.07	0.04	4.48	2.2	<0.05	0.5	<0.1
TR11-010-13	0.08	5	0.2	0.06	0.04	18.3	10.7	0.32	2.6	0.1
TR11-011-13	0.09	5	0.1	0.07	0.05	9.90	4.1	0.26	1.1	<0.1
TR11-012-13	0.04	4	0.1	0.04	0.03	8.24	5.9	0.40	1.4	0.1
TR11-013-13	0.05	3	<0.1	<0.02	0.02	10.2	18.5	2.79	3.3	<0.1
TR11-014-13	0.46	11	0.7	0.87	2.98	14.1	22.3	0.94	9.3	<0.1
TR11-015-13	0.03	2	<0.1	0.04	0.02	5.45	10.5	0.23	1.9	<0.1
TR11-016-13	1.34	14	1.4	1.09	2.16	16.8	18.2	0.79	15.5	0.1
CTR11-001-13	0.07	7	<0.1	0.08	0.03	2.71	4.9	<0.05	1.0	0.2
CTR11-002-13	1.19	15	0.8	1.19	1.31	18.1	46.9	0.79	8.0	<0.1
CTR11-003-13	0.08	7	<0.1	0.03	0.02	2.60	21.8	1.07	2.1	<0.1
SPZ-001-13	0.44	<1	<0.1	0.38	0.01	1.95	2.7	<0.05	0.6	<0.1

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Element	Hf	Hg	In	La	Lu	Mo	Nb	Pb	Rb	Sb
Method	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B	ICM12B
Det.Lim.	0.05	0.01	0.02	0.1	0.01	0.05	0.05	0.2	0.2	0.05
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
TR11-001-13	0.34	0.01	0.22	8.4	0.08	5.97	0.10	17.6	17.8	1.12
TR11-002-13	0.28	<0.01	0.24	8.4	0.07	6.18	0.06	13.6	11.6	1.20
TR11-003-13	0.56	<0.01	0.34	7.8	0.09	2.70	<0.05	12.8	26.9	1.16
TR11-004-13	0.39	<0.01	0.30	7.1	0.07	5.13	<0.05	14.6	21.6	1.26
TR11-005-13	0.20	<0.01	0.21	5.2	0.07	2.40	<0.05	7.3	16.9	0.30
TR11-006-13	<0.05	<0.01	0.02	3.1	0.05	5.36	0.07	6.9	1.3	<0.05
TR11-007-13	<0.05	<0.01	<0.02	1.4	0.02	3.15	0.07	2.1	0.6	<0.05
TR11-008-13	0.13	<0.01	0.03	12.1	0.09	4.32	0.11	28.4	8.1	0.17
TR11-009-13	<0.05	<0.01	<0.02	1.4	0.02	2.66	0.08	6.4	0.4	0.06
TR11-010-13	0.07	<0.01	<0.02	4.7	0.05	2.08	<0.05	6.8	2.6	0.12
TR11-011-13	<0.05	<0.01	<0.02	4.7	0.07	1.60	0.07	1.2	1.9	0.06
TR11-012-13	<0.05	0.02	<0.02	3.9	0.05	2.74	<0.05	1.2	2.5	0.10
TR11-013-13	0.09	<0.01	<0.02	3.7	0.05	0.34	<0.05	0.5	19.0	0.10
TR11-014-13	0.76	<0.01	0.26	6.9	0.09	4.53	<0.05	15.8	32.4	1.09
TR11-015-13	0.09	<0.01	<0.02	2.7	0.05	0.40	<0.05	0.4	2.0	0.12
TR11-016-13	0.69	<0.01	0.24	7.6	0.13	4.96	0.05	27.5	24.1	1.16
CTR11-001-13	<0.05	0.04	<0.02	1.2	0.02	4.13	<0.05	7.3	0.7	<0.05
CTR11-002-13	1.13	<0.01	0.21	8.7	0.11	4.54	<0.05	19.5	21.9	1.49
CTR11-003-13	0.06	<0.01	<0.02	1.1	0.04	1.36	<0.05	0.6	13.6	0.07
SPZ-001-13	<0.05	<0.01	<0.02	1.0	<0.01	5.68	0.11	0.4	0.4	<0.05

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Element Method Det.Lim. Units	Sc ICM12B 0.1 ppm	Se ICM12B 1 ppm	Sn ICM12B 0.3 ppm	Ta ICM12B 0.05 ppm	Tb ICM12B 0.02 ppm	Te ICM12B 0.05 ppm	Th ICM12B 0.1 ppm	Ti ICM12B 0.02 ppm	U ICM12B 0.05 ppm	W ICM12B 0.1 ppm
TR11-001-13	4.4	3	0.7	<0.05	0.18	0.49	2.3	0.72	0.37	1.2
TR11-002-13	3.6	4	0.6	<0.05	0.17	0.45	1.7	0.35	0.35	1.0
TR11-003-13	7.0	4	0.5	<0.05	0.24	0.35	2.6	0.57	0.37	1.6
TR11-004-13	5.6	4	0.6	<0.05	0.16	0.49	2.2	0.37	0.32	1.3
TR11-005-13	3.6	2	0.5	<0.05	0.13	0.26	1.1	0.35	0.17	1.1
TR11-006-13	0.5	<1	<0.3	<0.05	0.08	0.20	0.5	0.12	0.07	1.0
TR11-007-13	0.1	<1	<0.3	<0.05	0.03	0.12	0.1	0.04	<0.05	0.2
TR11-008-13	1.9	1	0.3	<0.05	0.22	0.46	3.1	0.54	0.40	3.6
TR11-009-13	0.2	<1	<0.3	<0.05	0.03	0.16	0.2	0.10	<0.05	0.4
TR11-010-13	3.7	<1	<0.3	<0.05	0.11	0.11	0.9	0.17	0.13	4.2
TR11-011-13	0.5	<1	<0.3	<0.05	0.11	0.24	0.6	0.04	0.13	3.0
TR11-012-13	1.1	<1	<0.3	<0.05	0.11	0.13	0.5	0.04	0.09	5.0
TR11-013-13	5.1	<1	<0.3	<0.05	0.09	<0.05	1.1	0.18	0.13	2.8
TR11-014-13	5.5	3	0.6	<0.05	0.17	0.38	3.4	0.66	0.47	0.8
TR11-015-13	4.5	<1	<0.3	<0.05	0.10	<0.05	0.8	0.02	0.11	0.4
TR11-016-13	7.8	4	1.1	<0.05	0.27	0.68	3.5	0.62	0.68	0.7
CTR11-001-13	0.3	<1	<0.3	<0.05	0.05	0.18	0.2	0.06	0.06	11.3
CTR11-002-13	4.6	4	0.3	<0.05	0.26	0.62	3.9	0.48	0.80	1.8
CTR11-003-13	4.2	<1	<0.3	<0.05	0.06	<0.05	0.7	0.18	0.09	2.8
SPZ-001-13	0.2	<1	<0.3	<0.05	<0.02	0.26	0.1	<0.02	<0.05	0.9

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Element	Y	Yb
Method	ICM12B	ICM12B
Det.Lim.	0.05	0.1
Units	ppm	ppm
TR11-001-13	4.72	0.5
TR11-002-13	4.73	0.5
TR11-003-13	5.89	0.6
TR11-004-13	3.80	0.4
TR11-005-13	4.37	0.4
TR11-006-13	3.11	0.3
TR11-007-13	1.12	0.1
TR11-008-13	6.84	0.6
TR11-009-13	1.47	0.1
TR11-010-13	3.34	0.3
TR11-011-13	3.92	0.4
TR11-012-13	3.65	0.4
TR11-013-13	2.75	0.3
TR11-014-13	4.74	0.5
TR11-015-13	3.17	0.3
TR11-016-13	8.29	0.8
CTR11-001-13	1.78	0.2
CTR11-002-13	6.79	0.7
CTR11-003-13	2.19	0.2
SPZ-001-13	0.24	<0.1

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