

GEOCHEMICAL ANALYSIS CERTIFICATE

Cordilleran Engineering Ltd. PROJECT VALE #8 FILE # 91-3490 Page 1

1980 - 1055 W. Hastings S, Vancouver BC V6E 2E9 Attn: MARK STEINER

SAMPLE#	AU* ppb	681166
3600E 8000N	13.5	
3600E 7950N	3.2	
3600E 7900N	2.4	
3600E 7850N	8.9	
3600E 7800N	14.3	
3600E 7750N	4.6	
3600E 7700N	4.5	
3600E 7650N	7.4	
3600E 7600N	19.1	
3600E 7550N	7.0	
3600E 7500N	6.5	
3600E 7450N	16.1	
3600E 7400N	4.3	
3600E 7350N	55.0	
3600E 7300N	4.9	
3600E 7250N	3.4	
3600E 7200N	5.5	
3600E 7150N	4.1	
3600E 7100N	7.9	
3600E 7050N	3.5	
3600E 7000N	2.8	
3600E 6950N	3.5	
3600E 6900N	2.6	
3600E 6850N	3.1	
3600E 6800N	2.5	
3600E 6750N	1.5	
3600E 6700N	6.1	
3600E 6650N	16.1	
3600E 6600N	6.4	
RE 3600E 6800N	4.0	
3600E 6550N	2.8	
3600E 6500N	2.9	
3600E 6450N	4.7	
3600E 6400N	2.7	
3600E 6350N	2.3	
3600E 6300N	5.8	
3600E 6250N	3.3	
STANDARD AU-S	50.1	

- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.
 Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: AUG 14 1991

DATE REPORT MAILED: Aug 19/91

RECEIVED

AUG 20 1991

SIGNED BY..... D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	AU* ppb
3600E 6200N	7.1
3600E 6150N	3.3
4000E 8000N	4.5
4000E 7950N	21.8
4000E 7900N	7.9
4000E 7850N	10.8
4000E 7800N	6.0
4000E 7750N	7.4
4000E 7700N	3.9
4000E 7650N	3.4
4000E 7600N	6.5
4000E 7550N	4.8
4000E 7500N	5.4
4000E 7450N	33.1
4000E 7400N	3.4
4000E 7350N	2.0
4000E 7300N	15.3
4000E 7250N	16.8
4000E 7200N	11.2
4000E 7150N	4.0
4000E 7100N	8.9
4000E 7050N	5.5
4000E 7000N	9.8
4000E 6950N	4.7
4000E 6900N	4.7
4000E 6850N	7.5
4000E 6800N	3.8
RE 4000E 7000N	4.9
4000E 6750N	17.5
4000E 6700N	3.0
4000E 6650N	3.6
4000E 6600N	2.7
4000E 6550N	5.1
4000E 6500N	4.3
4000E 6450N	3.2
4000E 6350N	4.0
4000E 6300N	2.1
STANDARD AU-S	51.0

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
4000E 6250N	3.3
4000E 6200N	.2
4000E 6180N	.4
4000E 6170N	1.3
4000E 6150N	4.3
4400E 8000N	.2
4400E 7950N	.2
4400E 7900N	.9
4400E 7850N	1.1
4400E 7800N	9.0
4400E 7750N	.2
4400E 7700N	.2
4400E 7650N	.2
4400E 7600N	.4
4400E 7550N	.3
4400E 7500N	.2
4400E 7450N	.2
4400E 7400N	1.8
4400E 7350N	1.8
4400E 7300N	.2
4400E 7250N	.2
4400E 7200N	3.8
4400E 7150N	2.3
RE 4400E 7300N	.5
4400E 7100N	5.2
4400E 7050N	.2
4400E 7000N	36.2
4400E 6950N	6.9
4400E 6900N	.2
4400E 6850N	.2
4400E 6800N	1.6
4400E 6750N	.9
4400E 6700N	.3
4400E 6650N	1.0
4400E 6600N	.6
4400E 6550N	2.2
4400E 6500N	.5
STANDARD AU-S	46.0

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
4400E 6450N	.7
4400E 6350N	2.0
4400E 6300N	4.6
4400E 6250N	.8
4400E 6200N	.9
4400E 6150N	1.4
4800E 8000N	.5
4800E 7950N	2.6
4800E 7900N	2.4
4800E 7850N	1.8
4800E 7800N	7.9
4800E 7750N	.4
4800E 7700N	1.0
4800E 7650N	1.5
4800E 7600N	.4
4800E 7550N	2.9
4800E 7500N	4.5
4800E 7450N	.7
4800E 7400N	1.8
4800E 7350N	1.3
4800E 7300N	.3
4800E 7250N	2.2
4800E 7200N	.7
4800E 7150N	.3
RE 4800E 7350N	.5
4800E 7100N	4.5
4800E 7000N	.4
4800E 6950N	.2
4800E 6900N	1.3
4800E 6850N	.7
4800E 6800N	1.6
4800E 6750N	8.3
4800E 6650N	4.7
4800E 6600N	.5
4800E 6550N	.9
4800E 6500N	.6
4800E 6450N	.7
STANDARD AU-S	47.0

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
4800E 6400N	2.5
4800E 6350N	6.8
4800E 6300N	2.2
4800E 6250N	1.4
4800E 6200N	1.8
4800E 6150N	2.3
5200E 8000N	12.2
5200E 7950N	1.4
5200E 7900N	4.4
5200E 7850N	2.7
5200E 7800N	3.7
5200E 7750N	.6
5200E 7700N	4.5
5200E 7650N	1.9
5200E 7600N	2.2
5200E 7550N	3.5
RE 5200E 7300N	2.6
5200E 7500N	4.6
5200E 7450N	2.6
5200E 7400N	2.2
5200E 7350N	4.6
5200E 7300N	4.2
5200E 7250N	12.1
5200E 7200N	6.2
5200E 7150N	5.0
5200E 7100N	3.2
5200E 7050N	36.2
5200E 7000N	6.8
5200E 6950N	4.0
5200E 6900N	6.5
5200E 6850N	5.3
5200E 6800N	2.2
5200E 6750N	3.5
5200E 6700N	2.4
5200E 6650N	1.9
5200E 6600N	1.9
5200E 6550N	27.6
STANDARD AU-S	47.1

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU*S ppb
5200E 6500N	3.9
5200E 6400N	2.4
5200E 6350N	5.2
5200E 6300N	1.6
5200E 6250N	1.9
5200E 6200N	1.2
5200E 6150N	4.2
5200E 6100N	1.3
5200E 6050N	1.3
5600E 8000N	1.2
5600E 7900N	1.1
5600E 7850N	2.4
5600E 7800N	2.7
5600E 7750N	8.6
5600E 7700N	1.4
5600E 7650N	22.1
5600E 7600N	4.0
5600E 7550N	2.0
5600E 7500N	1.2
5600E 7450N	2.5
5600E 7400N	1.3
5600E 7200N	1.5
5600E 7150N	2.6
5600E 7000N	3.9
5600E 6950N	2.1
5600E 6900N	1.6
5600E 6850N	11.5
5600E 6800N	1.0
5600E 6750N	4.4
5600E 6700N	4.0
5600E 6650N	4.2
5600E 6600N	3.4
RE 5600E 6700N	3.8
5600E 6550N	1.7
5600E 6500N	1.2
5600E 6450N	1.6
5600E 6400N	1.7
STANDARD AU-S	46.2

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
5600E 6350N	6.2
5600E 6300N	4.4
5600E 6250N	2.6
5600E 6200N	2.8
5600E 6150N	2.4
5600E 6050N	3.2
5620E 7150N	17.3
5620E 7100N	3.1
RE 12500E 7800N	1.7
5620E 7050N	9.8
12500E 8000N	.6
12500E 7900N	.6
12500E 7850N	.4
12500E 7800N	1.6
12500E 7750N	.3
12500E 7700N	1.1
12500E 7650N	.8
12500E 7600N	.4
12500E 7550N	.5
12500E 7500N	2.2
12500E 7450N	.7
12500E 7400N	.2
12500E 7350N	.8
12500E 7300N	1.2
12500E 7250N	.9
12500E 7200N	1.2
12500E 7150N	.4
12500E 7050N	.3
12500E 7000N	7.4
12500E 6950N	1.8
12500E 6900N	1.7
12500E 6850N	.9
12500E 6800N	1.7
12500E 6750N	.3
12500E 6700N	.6
12500E 6650N	.3
12500E 6600N	1.3
STANDARD AU-S	47.0

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
12500E 6550N	3.8
RE 12900E 8800N	1.7
12500E 6500N	2.0
12900E 9000N	1.5
12900E 8900N	1.2
12900E 8850N	1.9
12900E 8800N	1.6
12900E 8750N	3.3
12900E 8700N	1.4
12900E 8650N	1.6
12900E 8600N	2.1
12900E 8550N	.8
12900E 8500N	110.0
12900E 8450N	3.4
12900E 8400N	3.5
12900E 8350N	3.5
12900E 8300N	2.0
12900E 8250N	1.3
12900E 8200N	.8
12900E 8150N	1.1
12900E 8100N	.9
12900E 8050N	.8
12900E 8000N	.7
12900E 7950N	.8
12900E 7900N	.5
12900E 7850N	1.0
12900E 7800N	.9
12900E 7750N	1.0
12900E 7700N	1.2
12900E 7650N	1.0
12900E 7600N	2.8
12900E 7550N	1.2
12900E 7500N	.8
12900E 7450N	.3
12900E 7400N	1.0
12900E 7350N	1.1
12900E 7300N	1.7
STANDARD AU-S	54.3

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
12900E 7250N	2.3
12900E 7200N	2.1
12900E 7150N	1.7
RE 12900E 6600N	2.6
12900E 7100N	.9
12900E 7050N	.4
12900E 7000N	1.0
12900E 6950N	1.7
12900E 6900N	1.6
12900E 6750N	1.5
12900E 6700N	3.4
12900E 6650N	1.9
12900E 6600N	2.0
12900E 6550N	2.2
12900E 6500N	3.6
13300E 9000N	.2
13300E 8950N	.8
13300E 8900N	1.6
13300E 8850N	1.2
13300E 8800N	4.0
13300E 8750N	.8
13300E 8700N	1.5
13300E 8650N	.2
13300E 8600N	1.3
13300E 8550N	1.8
13300E 8500N	1.0
13300E 8450N	.4
13300E 8400N	.6
13300E 8350N	1.9
13300E 8300N	1.4
13300E 8250N	7.2
13300E 8200N	1.2
13300E 8150N	14.2
13300E 8100N	2.0
13300E 8050N	.8
13300E 8000N	1.4
13300E 7950N	.6
STANDARD AU-S	48.4

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
13300E 7900N	3.0
13300E 7850N	1.2
13300E 7800N	.2
13300E 7750N	.6
13300E 7700N	3.2
13300E 7650N	1.4
13300E 7600N	46.4
13300E 7550N	1.0
13300E 7500N	.9
13300E 7450N	10.4
13300E 7400N	5.7
13300E 7350N	.4
13300E 7300N	1.6
13300E 7250N	3.9
13300E 7200N	.3
13300E 7150N	31.1
13300E 7100N	.9
13300E 7050N	.9
13300E 7000N	.6
13300E 6950N	2.3
13300E 6900N	.8
13300E 6850N	1.3
13300E 6800N	1.7
13300E 6750N	.2
13300E 6700N	1.9
13300E 6650N	1.3
13300E 6600N	1.9
13300E 6500N	1.5
13700E 9000N	1.5
13700E 8950N	1.2
RE 13300E 6650N	1.6
13700E 8900N	1.9
13700E 8850N	1.6
13700E 8800N	1.3
13700E 8750N	2.3
13700E 8700N	.6
13700E 8650N	.8
STANDARD AU-S	51.2

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
13700E 8600N	1.8
13700E 8550N	1.4
13700E 8500N	.8
13700E 8450N	.8
13700E 8400N	.9
13700E 8350N	2.8
13700E 8300N	1.4
13700E 8250N	.3
13700E 8200N	2.1
13700E 8150N	3.4
13700E 8100N	9.5
13700E 8050N	1.0
13700E 8000N	3.8
13700E 7950N	.7
13700E 7900N	3.4
13700E 7850N	.5
13700E 7800N	.6
13700E 7750N	2.6
13700E 7700N	.5
13700E 7650N	2.1
13700E 7600N	1.7
13700E 7550N	1.3
13700E 7500N	.2
13700E 7450N	1.6
13700E 7400N	4.2
13700E 7350N	36.1
13700E 7300N	3.4
13700E 7250N	3.4
RE 13700E 7450N	2.1
13700E 7200N	.6
13700E 7150N	7.4
13700E 7100N	2.1
13700E 7050N	.7
13700E 7000N	.2
13700E 6950N	.9
13700E 6900N	.2
13700E 6850N	.9
STANDARD AU-S	45.3

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
13700E 6800N	2.2
13700E 6750N	1.5
13700E 6500N	1.3
14100E 9000N	.8
14100E 8950N	.7
14100E 8900N	2.7
14100E 8850N	2.2
14100E 8800N	3.3
14100E 8750N	14.8
14100E 8700N	4.3
14100E 8650N	.7
14100E 8600N	1.5
14100E 8550N	1.7
14100E 8500N	1.9
14100E 8450N	.8
14100E 8400N	1.2
14100E 8350N	1.0
14100E 8300N	2.4
14100E 8250N	4.1
14100E 8200N	1.3
14100E 8150N	.7
14100E 8100N	.4
14100E 8050N	.7
14100E 8000N	.5
14100E 7950N	.7
14100E 7900N	3.0
14100E 7850N	.3
14100E 7800N	.2
14100E 7750N	.2
14100E 7700N	.4
RE 14100E 7900N	4.0
14100E 7650N	22.1
14100E 7600N	4.1
14100E 7550N	6.3
14100E 7500N	6.4
14100E 7450N	2.2
14100E 7400N	1.7
STANDARD AU-S	45.1

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
14100E 7350N	.8
14100E 7300N	1.2
14100E 7250N	2.8
14100E 7200N	.3
14100E 7150N	.5
14100E 7100N	1.2
14100E 7050N	.7
14100E 7000N	2.0
14100E 6950N	.4
14100E 6900N	1.3
14100E 6850N	1.0
14100E 6800N	.5
14100E 6750N	1.8
14100E 6700N	26.7
14100E 6650N	.2
14100E 6600N	.7
14100E 6500N	4.7
14500E 9000N	.4
14500E 8950N	.4
14500E 8900N	1.2
14500E 8850N	1.0
14500E 8800N	3.8
14500E 8750N	3.9
14500E 8700N	.6
14500E 8650N	.5
14500E 8600N	.2
14500E 8550N	.9
14500E 8500N	.2
14500E 8450N	1.0
14500E 8400N	1.1
14500E 8350N	1.2
14500E 8300N	.2
14500E 8250N	.5
14500E 8200N	.3
RE 14500E 8350N	2.1
14500E 8150N	.2
14500E 8100N	1.7
STANDARD AU-S	52.2

Samples beginning 'RE' are duplicate samples.

SAMPLE#	AU* ppb
14500E 8050N	2.0
14500E 8000N	5.9
14500E 7950N	1.1
14500E 7900N	.8
14500E 7850N	1.8
14500E 7800N	4.4