



AcmeLabs

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: Interoute Construction Ltd.
201 - 5550, 152nd Street
Surrey BC V3S 5J9 Canada

Submitted By: Erwin Spletzer
Receiving Lab: Canada-Vancouver
Received: August 17, 2010
Report Date: August 30, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN10003949.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 4

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	4	Crush, split and pulverize 250 g rock to 200 mesh			VAN
4A4B	4	Whole Rock Analysis Majors and Trace Elements	0.2	Completed	VAN

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Interoute Construction Ltd.
201 - 5550, 152nd Street
Surrey BC V3S 5J9
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Phone (604) 253-3158 Fax (604) 253-1716

1-800-990-2263

www.acmelab.com

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Method	WGHT	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B
Analyte	Wgt	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ni	Sc	LOI	Sum	Ba	Be	Co	Cs	
Unit	kg	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	20	1	-5.1	0.01	1	1	0.2	0.1	
NATURAL SAND	Rock	6.61	75.90	10.86	4.22	1.39	1.86	1.66	1.84	0.46	0.11	0.10	0.008	<20	10	1.5	99.87	534	2	7.2	1.6
BASE GRAVEL	Rock	6.66	75.29	10.89	3.76	1.49	2.47	1.92	2.28	0.46	0.13	0.08	0.007	<20	9	1.1	99.86	646	2	6.9	1.7
PIT RUN	Rock	7.94	75.12	10.63	3.67	1.49	2.36	1.90	2.25	0.44	0.12	0.08	0.007	<20	8	1.8	99.84	663	2	7.6	1.8
MF	Rock	6.80	76.86	10.66	2.67	0.99	1.99	2.18	2.91	0.33	0.10	0.05	0.004	<20	5	1.1	99.85	750	2	4.7	1.9

FIV 75-8
 CLASS I CARCINOGEN
 ALUMINUM OXIDE
 IRON OXIDE
 MAGNESIUM OXIDE
 CALCIUM OXIDE
 SODIUM OXIDE
 POTASSIUM
 TITANIUM
 PHOSPHORUS
 MANGANESE
 CHROMIUM
 NICKEL
 SCANDIUM LOSS
 TOTAL BARIUM
 BERYLLIUM
 COBALT
 CAESIUM

ALPHA QUARTZ
 CRISTOBALITE } 76.0
 TRIDYMITE }



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CERTIFICATE OF ANALYSIS

VAN10003949.1

Method	Analyte	Unit	MDL	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B		
				Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce	Pr	Nd	Sm	Eu	Gd
				ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
				0.5	0.1	0.1	0.1	1	0.5	0.1	0.2	0.1	8	0.5	0.1	0.1	0.1	0.1	0.02	0.3	0.05	0.02	0.05
NATURAL SAND	Rock			12.3	4.5	13.9	62.0	1	190.4	1.0	10.3	2.3	53	0.8	179.2	25.1	39.0	73.7	8.18	30.1	4.83	0.97	4.35
BASE GRAVEL	Rock			13.9	5.1	17.6	76.3	2	251.1	1.0	9.2	2.2	53	1.1	211.3	21.4	35.0	66.4	7.49	28.2	4.58	0.96	3.87
PIT RUN	Rock			13.5	5.6	18.3	74.3	2	260.7	1.0	10.2	2.5	53	1.0	223.2	19.5	34.4	68.3	7.64	29.2	4.62	0.98	4.05
MF	Rock			14.5	5.4	19.2	95.6	2	258.8	1.4	12.5	2.8	34	0.8	200.1	17.5	37.6	73.4	8.00	30.9	4.53	0.90	3.87

GALLIUM
 HAFNIUM
 NIOBIUM
 RUBIDIUM
 TIN
 STRONTIUM
 TANTALUM
 THORIUM
 URANIUM
 VANADIUM
 TUNGSTEN
 ZIRCONIUM
 YTTRIUM
 LANTHANUM
 CERIUM
 PRASEODYMIUM
 NEODYMIUM
 SMARIUM
 EUROPIUM
 GADOLINIUM

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CERTIFICATE OF ANALYSIS VAN10003949.1

Method	Analyte	Unit	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	4A-4B	2A Leco	2A Leco	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	1DX	
			Tb	Dy	Ho	Er	Tm	Yb	Lu	TOT/C	TOT/S	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb	Bi	Ag	Au
		MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb
NATURAL SAND	Rock		0.70	4.23	0.86	2.60	0.40	2.72	0.40	0.06	<0.02	0.3	12.2	9.0	32	14.0	2.6	<0.1	0.4	0.2	0.2	0.6
BASE GRAVEL	Rock		0.62	3.55	0.70	2.08	0.32	2.08	0.32	0.09	0.02	0.5	11.6	6.4	32	12.2	1.7	>0.1	0.2	0.1	>0.1	0.7
PIT RUN	Rock		0.62	3.50	0.69	2.06	0.32	1.97	0.31	0.05	0.03	1.0	12.5	5.7	33	12.1	1.4	>0.1	<0.1	0.2	>0.1	0.7
MF	Rock		0.56	3.16	0.61	1.67	0.27	1.65	0.24	0.06	0.03	0.5	7.9	5.6	30	7.0	0.9	<0.1	<0.1	<0.1	<0.1	0.9

TERBIUM DYSPROSIUM HOLMIUM ERBIUM THULIUM YTTERBIUM LUTETIUM MOLYBDENUM COPPER LEAD ZINC NICKEL ARSENIC CADMIUM ANTIMONY BISMUTH SILVER GOLD

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CERTIFICATE OF ANALYSIS

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Method		1DX	1DX	1DX
Analyte		Hg	Tl	Se
Unit		ppm	ppm	ppm
MDL		0.01	0.1	0.5
NATURAL SAND	Rock	<0.01	0.1	<0.5
BASE GRAVEL	Rock	<0.01	0.1	<0.5
PIT RUN	Rock	<0.01	0.1	<0.5
MF	Rock	<0.01	0.1	<0.5

MERCURY TOTAL
 THALLIUM TOTAL
 SELENIUM TOTAL
 ALL PRESENT TO 800 MILLIUGRAMS PER GRAM

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