Table 3.5 Waste Rock SFE Leach Test Results
Tiriganiaq Deposit, Meliadine West Property, Nunavut
Comaplex Minerals Corporation

CCME (CEQG) (freshwater aquatic life)[1] (mg/L)								**0.073**		**0.025 - 0.15[6]**	**0.001 - 0.007[6]**		**0.001**				**0.0008**					**0.03**
Metal Mine Effluent Regulation (MMER)[2] (mg/L)										**0.50**	**0.20**											**0.50**
Sample Number	**Interval**		**Lithology**		**Location**	**K**	**Li**	**Mg**	**Mn**	**Mo**	**Na**	**Ni**	**Pb**	**Sb**	**Se**	**Sn**	**Sr**	**Ti**	**Tl**	**U**	**V**	**W**	**Y**	**Zn**
	from	**to**	**code**	**Name**		**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L[6]**	**mg/L[6]**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**	**mg/L**
M04-527-01	270	280	Kwa-s'ak	greywacke/siltstone	UG	5.0	0.001	1.8	0.0024	0.0005	10	0.0003	0.00003	0.0033	< 0.001	0.00005	0.052	0.0003	< 0.00002	0.00016	0.0035	0.00056	0.000015	0.003
M04-533-01	380	390	Ks-wa'ser	greywacke/siltstone	UG	14	0.002	2.0	0.0010	0.0004	7.2	0.0003	0.00008	0.0027	< 0.001	0.00007	0.128	0.0002	< 0.00002	0.00007	0.0023	0.00193	0.000015	0.006
M04-533-02	297	307	Ks-wa'ca	greywacke/siltstone	UG	8.6	< 0.001	0.6	0.0008	0.0006	8.4	0.0002	0.00002	0.0054	< 0.001	0.00004	0.037	0.0006	< 0.00002	0.00013	0.0067	0.00078	0.000018	0.004
M05-559A-02	180	190	Kwa-s	greywacke/siltstone	UG	7.9	0.001	1.0	0.0010	0.0004	8.0	0.0002	0.00004	0.0041	< 0.001	0.00008	0.047	0.0002	< 0.00002	0.00007	0.0039	0.00071	0.000012	0.005
M05-571A-02	335	344	Kwa-s'ak	greywacke/siltstone	UG	7.4	0.001	1.9	0.0006	0.0009	8.9	0.0004	0.00002	0.0037	< 0.001	0.00004	0.050	0.0004	< 0.00002	0.00005	0.0014	0.00094	0.000024	0.006
M06-604-01	336	344	Ks	greywacke/siltstone	UG	6.1	0.001	1.3	0.0005	0.0009	12	0.0003	0.00008	0.0044	< 0.001	0.00006	0.054	0.0007	< 0.00002	0.00007	0.0023	0.00091	0.000029	0.003
M06-604-02	286	295	Kwa-s'c	greywacke/siltstone	UG	7.2	< 0.001	1.6	0.0008	0.0002	8.0	0.0001	0.00003	0.0035	< 0.001	0.00005	0.069	0.0001	< 0.00002	0.00002	0.0004	0.00070	0.000012	0.019
M07-645-01	250	260	Kwa-s	greywacke/siltstone	UG	7.4	< 0.001	1.4	0.0006	0.0005	11	0.0004	0.00004	0.0055	< 0.001	0.00005	0.055	0.0004	< 0.00002	0.00008	0.0024	0.00066	0.000029	0.003
M07-663-01	417	427	Ks'ak	greywacke/siltstone	UG	8.5	0.001	1.5	0.0008	0.0006	8.5	0.0009	0.00007	0.0043	< 0.001	0.00005	0.053	0.0003	< 0.00002	0.00006	0.0020	0.00115	0.000020	0.007
M07-663-02	351	357	Kwa'ak'po	greywacke/siltstone	UG	10	0.001	2.2	0.0008	0.0006	12	0.0010	0.00005	0.0029	< 0.001	0.00007	0.059	0.0003	< 0.00002	0.00005	0.0014	0.00190	0.000014	0.008
M07-663-03	280	289	Kwa-s	greywacke/siltstone	UG	7.7	0.001	2.1	0.0010	0.0004	6.9	0.0004	0.00006	0.0036	< 0.001	0.00004	0.043	0.0002	< 0.00002	0.00004	0.0016	0.00081	0.000011	0.007
M98-313-01	305	315	Ks-wa	greywacke/siltstone	UG	7.3	< 0.001	1.6	0.0006	0.0003	7.6	0.0003	0.00007	0.0030	< 0.001	0.00007	0.049	0.0002	< 0.00002	0.00010	0.0026	0.00079	0.000016	0.006
minimum						5.0	< 0.001	0.6	0.0005	0.0002	6.9	0.0001	0.00002	0.0027	< 0.001	0.00004	0.037	0.0001	< 0.00002	0.00002	0.0004	0.00056	0.000011	0.003
maximum						14	0.002	2.2	0.0024	0.0009	12	0.0010	0.00008	0.0055	< 0.001	0.00008	0.128	0.0007	< 0.00002	0.00016	0.0067	0.00193	0.000029	0.019
median						7.5	0.001	1.6	0.0008	0.0005	8.4	0.0003	0.00005	0.0037	nc	0.00005	0.053	0.0003	nc	0.00007	0.0023	0.00080	0.000016	0.006
average						8.1	0.001	1.6	0.0009	0.0005	9.0	0.0004	0.00005	0.0039	nc	0.00006	0.058	0.0003	nc	0.00007	0.0025	0.00099	0.000018	0.006
standard deviation						2.3	0.000	0.5	0.0005	0.0002	1.7	0.0003	0.00002	0.0009	nc	0.00001	0.023	0.0002	nc	0.00004	0.0016	0.00046	0.000006	0.004
75th percentile						8.6	0.001	1.9	0.0010	0.0006	11	0.0004	0.00007	0.0044	nc	0.00007	0.056	0.0004	nc	0.00008	0.0028	0.00099	0.000021	0.007
M03-496-02	281	290	Nl-m-wa	iron formation	UG	7.7	0.001	2.7	0.0020	0.0005	1.7	0.0002	< 0.00002	0.0006	< 0.001	0.00002	0.093	< 0.0001	< 0.00002	0.00001	0.0001	0.00039	0.000006	< 0.001
M04-526-01	216	225	Nm-l-j	iron formation	UG	1.0	< 0.001	1.5	0.0020	0.0002	2.0	0.0002	0.00014	0.0008	< 0.001	0.00006	0.268	< 0.0001	0.00013	0.00018	0.0002	0.00031	0.000142	0.017
M07-649-01	280	290	Nm-l	iron formation	UG	1.5	< 0.001	5.2	0.0077	0.0001	3.0	0.0002	0.00003	0.0005	< 0.001	0.00006	0.204	< 0.0001	< 0.00002	0.00002	0.0001	0.00004	0.000014	0.023
M99-280-01	189	197	Nj-m	iron formation	UG	6.4	0.001	1.4	0.0007	0.0002	2.3	0.0001	< 0.00002	0.0012	< 0.001	0.00005	0.118	< 0.0001	< 0.00002	0.00003	0.0001	0.00055	0.000007	0.017
minimum						1.0	< 0.001	1.4	0.0007	0.0001	1.7	0.0001	< 0.00002	0.0005	< 0.001	0.00002	0.093	< 0.0001	< 0.00002	0.00001	0.0001	0.00004	0.000006	< 0.001
maximum						7.7	0.001	5.2	0.0077	0.0005	3.0	0.0002	0.00014	0.0012	< 0.001	0.00006	0.268	< 0.0001	0.00013	0.00018	0.0002	0.00055	0.000142	0.023
median						3.9	nc	2.1	0.0020	0.0002	2.1	0.0002	nc	0.0007	nc	0.00006	0.161	nc	nc	0.00002	0.0001	0.00035	0.000011	0.017
average						4.2	nc	2.7	0.0031	0.0002	2.2	0.0002	nc	0.0008	nc	0.00005	0.171	nc	nc	0.00006	0.0001	0.00032	0.000042	0.019
standard deviation						3.4	nc	1.8	0.0031	0.0002	0.5	0.0001	nc	0.0003	nc	0.00002	0.080	nc	nc	0.00008	0.0000	0.00021	0.000067	0.003
75th percentile						6.7	nc	3.3	0.0034	0.0003	2.4	0.0002	nc	0.0009	nc	0.00006	0.220	nc	nc	0.00006	0.0001	0.00043	0.000046	0.020

Notes:

nc: not calculated

1. CEQG (2002) freshwater guidelines and MMER criteria are based on total metal concentrations.
2. MMER 2006 update. Maximum authorized monthly mean concentration.
3. Exceedances to freshwater CEQG's shown in bold type.
4. Freshwater aquatic life criterion for aluminum depends on pH, [Ca2+] and DOC. In this table, only the pH criterion has been applied to highlight exceedances.
5. Freshwater aquatic life criteria for chromium depends on the valence of chromium ion. In the above table, the Cr(VI) criterion of 0.001 mg/L is shown.
6. Freshwater aquatic life criterion or guideline is hardness dependant.

Table 3.7. Correlation Analysis
Tiriganiaq Deposit, Meliadine West Property, Nunavut
Comaplex Minerals Corporation

	Depth	Leachable (mg/L)		Solid Phase Chemical Composition (mg/kg)																										
	(m)	As	Al	S2-	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	K	Li	Mg	Mn	Mo	Na	Ni	Pb	Sr	Ti	Tl	U	V	Y	Zn
Depth	**1.0**																														
Leachable As	-0.2	**1.0**																													
Leachable Al	-0.5	0.2	**1.0**																												
S2-	0.0	0.2	-0.3	**1.0**																											
Ag	0.3	0.3	-0.3	0.1	**1.0**																										
Al	0.1	0.3	0.3	-0.4	0.4	**1.0**																									
As	-0.1	0.3	-0.3	**0.9**	0.1	-0.2	**1.0**																								
Ba	0.2	0.3	0.1	-0.2	0.2	0.5	-0.1	**1.0**																							
Be	0.3	0.2	0.0	-0.2	0.3	0.5	-0.1	**0.9**	**1.0**																						
Bi	0.2	0.2	-0.1	0.1	0.6	0.3	0.2	0.4	0.5	**1.0**																					
Ca	-0.1	-0.1	0.0	0.4	-0.3	-0.5	0.4	-0.4	-0.5	-0.2	**1.0**																				
Cd	-0.2	0.4	-0.2	**0.8**	0.1	-0.1	**0.8**	0.0	-0.1	0.2	0.2	**1.0**																			
Co	0.0	0.1	0.1	0.4	0.1	0.1	0.4	-0.1	-0.2	0.1	0.7	0.4	**1.0**																		
Cr	0.1	0.2	0.2	0.0	0.4	0.4	0.0	0.1	0.0	0.2	0.3	0.1	**0.8**	**1.0**																	
Cu	0.1	0.3	0.0	0.3	0.1	0.1	0.3	0.0	-0.1	0.0	0.2	0.5	0.4	0.3	**1.0**																
Fe	0.2	-0.3	-0.4	0.3	-0.3	-0.8	0.2	-0.3	-0.3	-0.2	0.3	0.1	-0.1	-0.3	0.0	**1.0**															
K	0.2	0.3	0.2	-0.3	0.5	**0.8**	-0.2	0.7	**0.7**	0.4	-0.6	0.0	-0.1	0.3	0.1	-0.7	**1.0**														
Li	0.1	0.1	0.3	-0.1	0.2	0.5	-0.1	0.2	0.1	0.1	0.2	-0.1	0.7	**0.7**	0.2	-0.3	0.3	**1.0**													
Mg	0.1	0.0	0.1	0.1	0.1	0.2	0.1	0.0	-0.2	0.0	0.6	0.1	**0.9**	**0.8**	0.3	0.0	0.0	**0.8**	**1.0**												
Mn	-0.1	0.0	-0.1	0.7	-0.1	-0.3	0.7	-0.3	-0.4	-0.1	**0.9**	0.6	**0.8**	0.4	0.3	0.2	-0.4	0.3	0.6	**1.0**											
Mo	0.2	0.3	-0.3	0.4	0.5	0.2	0.5	0.2	0.2	0.3	-0.2	0.4	0.2	0.2	0.2	-0.1	0.3	0.1	0.0	0.1	**1.0**										
Na	-0.2	0.3	0.3	-0.4	0.2	0.7	-0.2	0.2	0.3	0.2	-0.5	-0.1	-0.2	0.0	0.0	-0.8	0.5	0.0	-0.3	-0.4	0.0	**1.0**									
Ni	0.2	0.2	0.1	0.1	0.3	0.4	0.1	0.1	0.0	0.2	0.4	0.2	**0.9**	**0.9**	0.4	-0.3	0.2	**0.8**	**0.8**	0.5	0.2	0.0	**1.0**								
Pb	0.2	0.0	-0.1	0.1	0.3	0.1	0.1	0.6	0.7	0.6	0.0	0.2	0.1	0.1	0.0	0.0	0.3	0.1	0.1	0.1	0.1	0.0	0.1	**1.0**							
Sr	0.0	0.2	0.1	-0.2	0.3	0.3	-0.3	0.7	0.7	0.4	-0.5	-0.1	-0.4	-0.2	-0.2	-0.3	0.5	-0.1	-0.3	-0.5	0.1	0.4	-0.2	0.4	**1.0**						
Ti	0.4	0.1	0.1	-0.1	0.2	0.5	0.0	0.4	0.4	0.2	0.1	0.0	0.4	0.5	0.2	-0.4	0.5	0.3	0.3	0.1	0.1	0.2	0.5	0.3	0.0	**1.0**					
Tl	0.2	0.3	0.0	0.1	0.4	0.5	0.2	0.6	0.7	0.5	-0.1	0.2	0.4	0.6	0.1	-0.4	**0.7**	0.4	0.4	0.1	0.3	0.1	0.5	0.6	0.3	0.5	**1.0**				
U	0.2	0.4	0.1	-0.2	0.6	0.7	-0.2	0.5	0.6	0.5	-0.8	0.0	-0.2	0.2	0.0	-0.5	**0.8**	0.1	-0.2	-0.6	0.5	0.5	0.1	0.1	0.5	0.3	0.4	**1.0**			
V	0.1	0.1	0.1	0.1	0.1	0.2	0.2	-0.1	-0.2	0.0	0.7	0.1	**0.9**	**0.8**	0.3	-0.1	0.0	**0.7**	**0.9**	0.7	0.0	-0.2	**0.9**	0.1	-0.4	0.5	0.4	-0.3	**1.0**		
Y	0.4	0.4	0.1	-0.1	0.5	0.6	-0.1	0.5	0.4	0.4	-0.1	0.0	0.4	**0.7**	0.3	-0.3	0.6	0.5	0.4	0.0	0.4	0.2	0.7	0.3	0.2	0.6	0.6	0.6	0.4	**1.0**	
Zn	0.0	0.3	-0.2	**0.8**	0.2	0.0	**0.8**	0.0	0.0	0.2	0.4	**0.8**	0.7	0.4	0.4	0.1	0.0	0.3	0.5	**0.8**	0.5	-0.3	0.5	0.3	-0.2	0.2	0.4	-0.1	0.5	0.2	**1.0**

Legend

Stream - flow direction indicated

Drainage Basin Boundary

539500 m E

541500 m E

542500 m E

6989000 m N

6988000 m N

Meliadine Lake

Meliadine Camp

Rankin Inlet

Hudson Bay

LOCATION

520000 mE

540000 mE

560000 mE

6990000 mN

6970000 mN

0 10 20

Kilometres

Ice Airstrip

Bulk Fuel (P-50)

Camp Water Supply (Mel-1)
541909 mE, 6989204 mN

Mel 3, Mel 4 Water Sampling Locations (Greywater)

CaCl Storage

Camp

Bulk Fuel (Jet A)

Drum Storage (Full JetB, JetA)

0 200 400

Meters

Scale: 1:10,000
Grid: NAD83 Z15
C.I. = 1 m

Operations Pad

Inset

Primary Containment

Services Pad
Overburden Storage

Portal

Commercial Lease (KVCL102J168)

Explosives Magazines

Peanut Lake

Bulk Fuel (P-50)

Road

Proposed Open Pit

Underground Workings

Exploration Drift
70 m below surface

Exploration Drift
120 m below surface

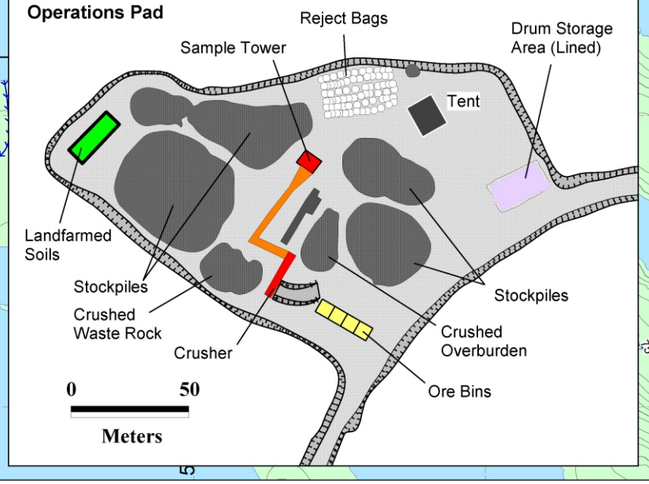
Pump

Pump Lake Water Supply (Mel-2)
(Summer and thin ice)
539915 mE, 6987805 mN

Pump Lake

Pump Lake Water Supply (Winter)
539993 mE, 6987565 mN

Operations Pad



NOTES

1. ORIGINAL FIGURE PROVIDED BY COMAPLEX MINERALS CORPORATION, FEBRUARY 2009

PROJECT
COMAPLEX MINERALS CORP.
MELIADINE WEST PROJECT

TITLE
GENERAL SITE PLAN

Golder Associates

PROJECT No. 08-1122-0292			PHASE No.	
DESIGN	CJC	18FEB09	SCALE AS SHOWN	REV.
CADD	GG	18FEB09		
CHECK				
REVIEW				

FIGURE 1.1

DRAWING DATE: 03-Mar-09 COREL FILE: N:\Bur-Graphics\Projects\2008\1122\08-1122-0292\Drafting\10000\08111220292-A 01.cdr