



IZOK LAKE PROJECT

NOVEMBER 10, 2011

2012

WATER BOARD ANNUAL REPORT REPORTING ON 2011 ACTIVITY

MINERAL AND METALS GROUP

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1 Project Summary Izok

The Minerals and Metals Group (MMG) is a mining development company that has acquired the mineral rights for the Izok property, and portions of the Hood River property from Oz Minerals.

The Izok property is a VMS style polymetallic deposit hosted in felsic rocks, the primary interest being its copper and zinc content. The property consists of three mineral leases and three claims (currently being processed). It is located approximately 300 km north of Yellowknife (see Figure I) and is situated on both Crown and Inuit Owned Land.

The Izok Lake property has been well documented and explored by various groups over its 40 year history. Although activity in the region is documented since the 1960's, the first significant discovery was made in the mid-1970's by Texas Gulf. Since then Izok Lake has played host to a number of interested groups, including Minnova and Inmet prior to the involvement of Wolfden and the subsequent series of takeovers that led the property to MMG.

The 2011 exploration program at Izok included diamond drilling and surface geophysics, as well as mapping and sampling. Drilling is summarized in Table I below. With the exception of one drill pad (IR-10-01) all drilling was carried out on ice over lake-bottom targets. In total 41 holes were drilled (see Table I). Land sump locations were established in natural depressions, and their location data is provided. In some cases these were not utilized, as circulation was lost during drilling (water utilized in drilling escaped at depth in fractures within the rock and did not return to surface). Water samples were taken at all of the lake ice drill pad locations prior to and following completion of the drill holes. Analysis of these samples was completed by ALS Chemex labs and is reported in Appendix II of this report along with their locations (see Table II). In addition, photos were taken of each water sample location and these have also been included (Appendix II).

Table I : Summary of Drilling 2011 Izok Project

Hole ID#	Easting	Northing	Datum	UTMZone	Depth	Sump Easting	Sump Northing
HEN448	417329.6	7279718	NAD83	12N	348	417442	7279610
HEN449	417446.2	7279798	NAD83	12N	408.72	417547	7279680
HEN450	416892.6	7279728	NAD83	12N	453	416913	7279634
HEN451	417582.9	7279892	NAD83	12N	408	417713	7279835
HEN452	417024.3	7279806	NAD83	12N	441	417076	7279597
HEN453	417689.6	7279970	NAD83	12N	303	417753	7279928
HEN454	417161.3	7279887	NAD83	12N	240	417324	7279966
HEN455	417689.6	7279970	NAD83	12N	369	417753	7279928
HEN456	417192.7	7280326	NAD83	12N	261	417368	7280268
HEN457	416630.6	7280111	NAD83	12N	282	416531	7280157
HEN458	417727.6	7280049	NAD83	12N	351	417794	7280043
HEN459	416718.6	7280196	NAD83	12N	336	416542	7280205
HEN460	417687.3	7280237	NAD83	12N	273	417808	7280169
HEN461	416363.2	7280761	NAD83	12N	380	416187	7280743
HEN462	417895.6	7280331	NAD83	12N	300	417920	7280224
HEN463	417568.2	7280458	NAD83	12N	498	417658	7280590
HEN464	416597.4	7280594	NAD83	12N	278	416349	7280497
HEN465	417265.1	7280500	NAD83	12N	525	417254	7280736
HEN466	416763.8	7280842	NAD83	12N	321	416784	7281002
HEN467	417788.6	7279652	NAD83	12N	360	417785	7279669
HEN468	417828.8	7279750	NAD83	12N	423	417842	7279749
HEN469	417709.3	7279750	NAD83	12N	330	417717	7279742
HEN470	417828.8	7279750	NAD83	12N	9	417841	7279749
HEN471	417814.3	7279835	NAD83	12N	327	417830	7279828
HEN472	417709.3	7279750	NAD83	12N	45	417717	7279742
HEN473	417520	7279681	NAD83	12N	396	417545	7279647
HEN474	417980.9	7279875	NAD83	12N	498	417999	7279899
HEN475	417595	7279557	NAD83	12N	399	417575	7279534
HEN476	417257.2	7281434	NAD83	12N	343.37	417291	7281412
HEN477	417023.7	7279564	NAD83	12N	381	417021	7279560
HEN478	417814.4	7279981	NAD83	12N	408	417812	7279983
HEN479	416510.6	7280112	NAD83	12N	348	416513	7280156
HEN480	418180.4	7279925	NAD83	12N	490.25	418161	7279890
HEN481	417091.9	7279361	NAD83	12N	294	417125	7279346
HEN482	417869	7279681	NAD83	12N	549	417894	7279688
HEN483	417402.2	7279597	NAD83	12N	402	417419	7279606
HEN484	415823.6	7279719	NAD83	12N	195	415778	7279668
HEN485	417996.6	7279718	NAD83	12N	630	418014	7279721
HEN486	417841.1	7279854	NAD83	12N	399	417847	7279853
HEN487	417964.7	7279852	NAD83	12N	444	417977	7279848
HEN488	418082.6	7279939	NAD83	12N	414.15	418106	7279940
HEN489	417824	7279590	NAD83	12N	249.41	417879	7279577

Figure I : General Location Izok Project

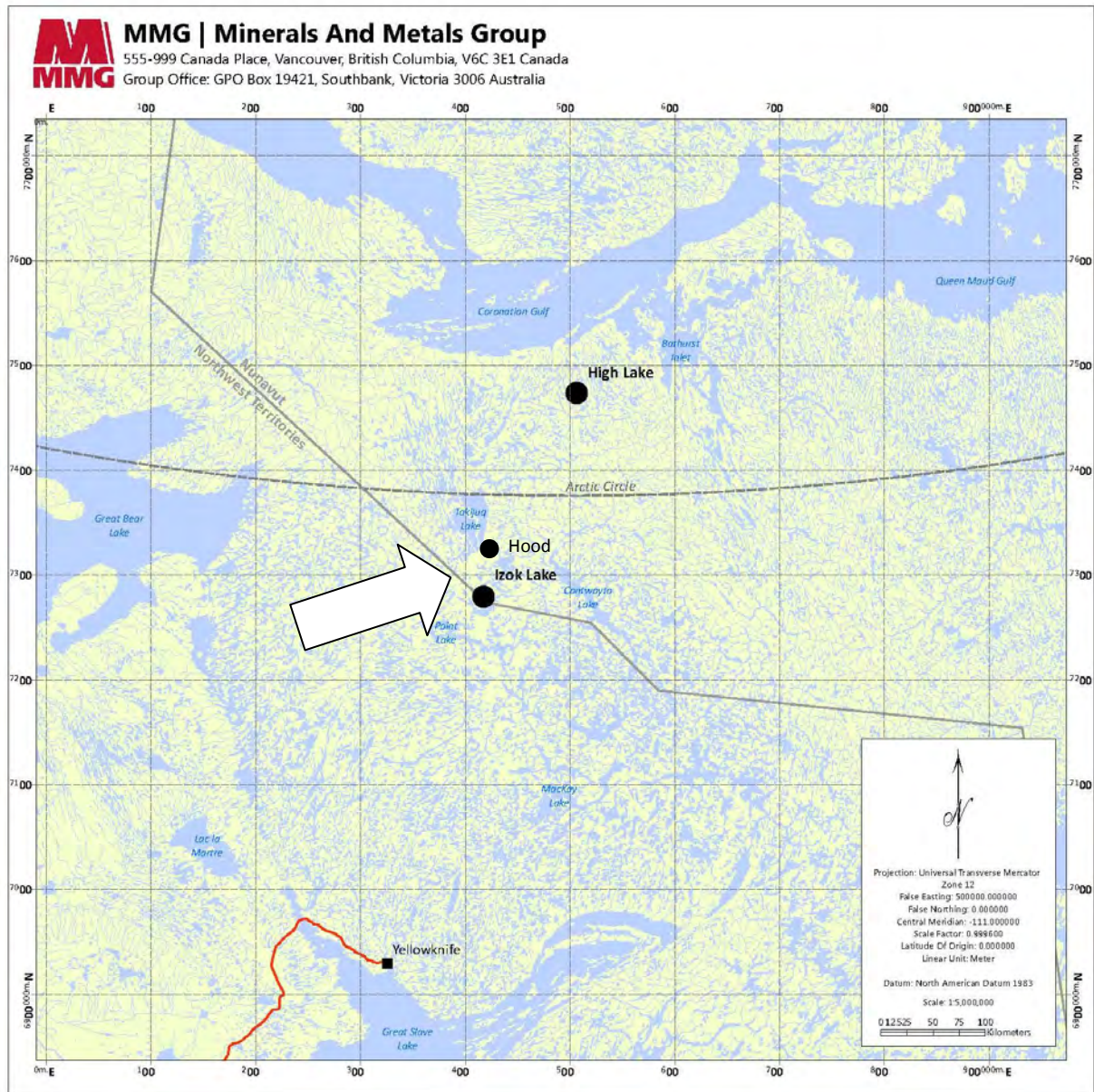
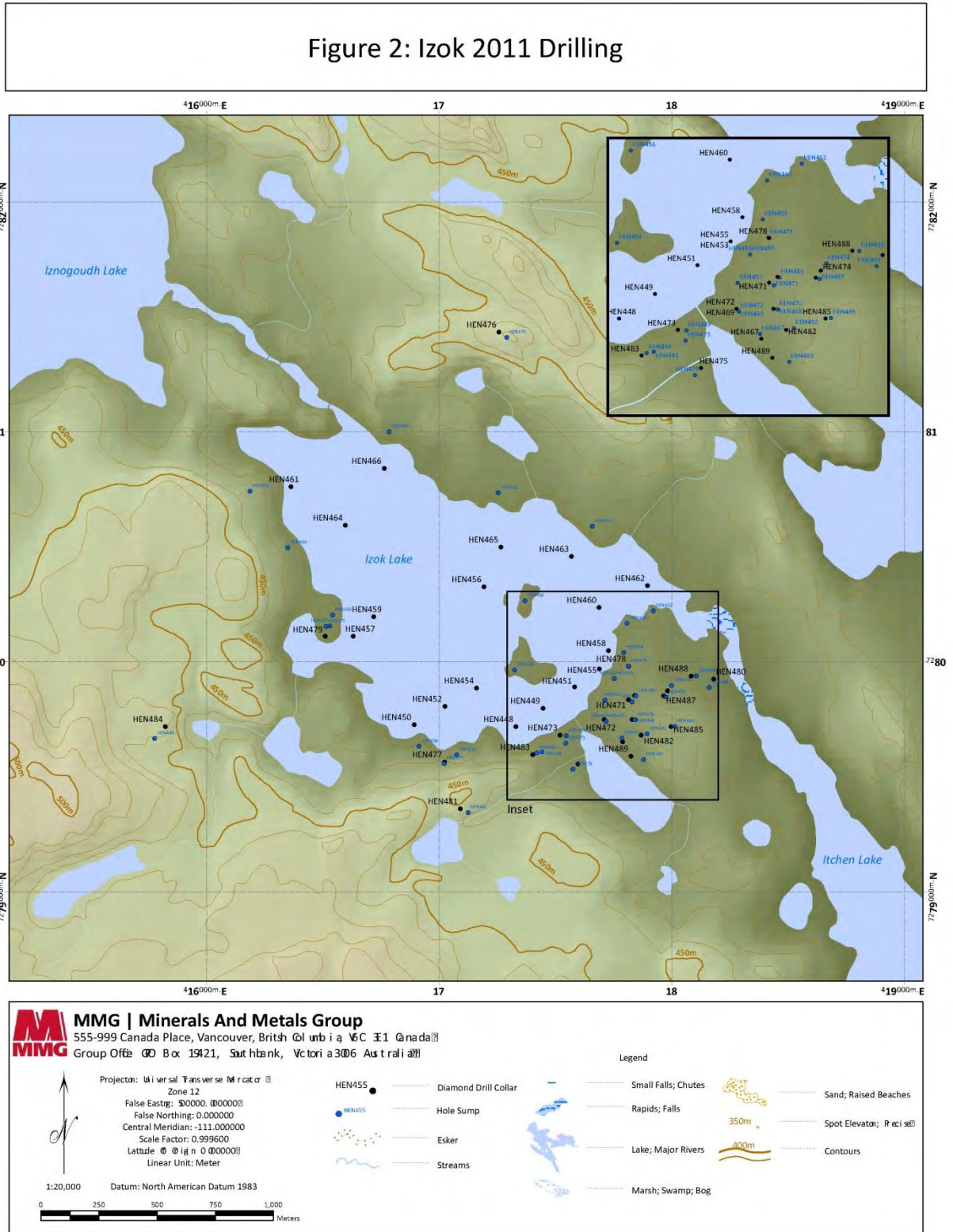


Figure II : Drill pad and sump locations 2011 Izok Lake



This year, MMG is again proposing exploratory drilling as well as a geophysical program in the vicinity of Izok Lake and on the Hood Property, located in Nunavut. These programs will begin in mid March 2012 and operate for about six months. Drilling at Izok is expected to be more or less continuous during this period. The scope of the drilling program will be related somewhat to success in early holes. Areas of interest for drilling at Hood are provided in the accompanying map showing detail of the claim group. The areas are labeled A, B, C and D in order of priority of interest.

In addition to mineral exploration activities, we anticipate that environmental baseline work and engineering studies will be carried out concurrent with the planned diamond drilling and prospecting.

The planned activities are necessary to increase the technical understanding of the nature of the mineral deposits. The long-term objective of any mineral exploration program is to progress the project towards feasibility studies and eventual development of a producing mine. In addition to the mineral exploration work, environmental baseline studies will be undertaken to obtain the necessary background data and to improve the knowledge of the physical environment of the property. This is in preparation for a future submission of an Environmental Impact Statement in support of permit applications for mine development and operation.

2 Water Use

Water use on the Izok project is resultant from two activities; diamond drilling and camp operations. Last season's diamond drilling program began March 20, 2011 and concluded August 25, 2011, and consisted of two drills. Water pumped to the drill is calculated by average pumping rates of supply pumps and is 25m^3 per drill per day. Of this an estimated 30% is used by the drill for drilling operations, the remainder, which is clean unused water is allowed to flow back to the water table.

The Ham Lake Camp utilizes water from Ham Lake. The water consumption was calculated by keeping record of the number of times the storage tanks were filled. The known volume of the storage tanks was multiplied by number of times each was filled. The camp consumed an average of 750 gallons of water per day during operation. A water meter was purchased for the camp and the data collected is presented in Appendix II.

3 Unauthorized Discharges

No spills or unauthorized discharges occurred during the 2011 exploration program and reporting period.

4 Spill Contingency Plan / Abandonment and Restoration Plan

The Izok Spill Contingency Plan was updated at the conclusion of the reporting period, with minor changes to personnel listed and contact numbers provided. Additional materials were added to the MSDS sheets where needed. The updated Spill Contingency and Abandonment and Restoration plans have been attached to this report as Appendices.

5 Reclamation Work

Reclamation work occurs at each diamond drilling site on an ongoing basis during the exploration program. Each site is returned to its natural state with as little disturbance as possible at the conclusion of each drill hole. Drilling sites located on frozen lake surfaces are scraped clean and any contaminated snow is deposited in a land based sump location or contained in drums. A small amount of site cleanup was carried out at the Ham Lake camp site during the reporting period, with several loads of scrap metal as removed from site to Yellowknife. The historic Inmet camp near the Hood claim group underwent a site cleanup that saw 5 structures dismantled and removed, along with some 80 empty drums. The remaining empty drums will be removed this winter. MMG intends to cache fuel at the Hood site in order to facilitate drilling this summer.

6 Appendices

Table II : Water Sampling Locations

PROJECT	SAMPLE#	TYPE	UTM EAST	UTM NORTH	COORDINATE SYSTEM	GEO	DATE	LOCATION
IZK	WS004001	WATER	417321	7279749	UTM12N (NAD83)	GD	17-Mar-11	HEN-448
IZK	WS004002	WATER	417321	7279749	UTM12N (NAD83)	GD	17-Mar-11	HEN-448
IZK	WS004003	WATER	417321	7279749	UTM12N (NAD83)	GD	17-Mar-11	HEN-448
IZK	WS004004	WATER	417305	7279734	UTM12N (NAD83)	GLE	24-Mar-11	HEN-450
IZK	WS004005	WATER	417431	7279810	UTM12N (NAD83)	GLE	24-Mar-11	HEN-449
IZK	WS004006	WATER	416892	7279755	UTM12N (NAD83)	GLE	24-Mar-11	HEN-448
IZK	WS004007	WATER	417575	7279911	UTM12N (NAD83)	GLE	31-Mar-11	HEN-451
IZK	WS004009	WATER	417016	7279812	UTM12N (NAD83)	GLE	02-Apr-11	HEN-452
IZK	WS004010	WATER	416889	7279755	UTM12N (NAD83)	KAB	10-Apr-11	HEN-450
IZK	WS004011	WATER	417585	7279897	UTM12N (NAD83)	KAB	10-Apr-11	HEN-451
IZK	WS004012	WATER	417198	7279892	UTM12N (NAD83)	KAB	10-Apr-11	
IZK	WS004013	WATER	417254	7280180	UTM12N (NAD83)	AS	10-Apr-11	
IZK	WS004014	WATER	417027	7279829	UTM12N (NAD83)	GLE	16-Apr-11	HEN-452
IZK	WS004015	WATER	417174	7280331	UTM12N (NAD83)	GLE	16-Apr-11	HEN-456
IZK	WS004016	WATER	417175	7279922	UTM12N (NAD83)	AS	18-Apr-11	HEN-454
IZK	WS004017	WATER	416713	7280208	UTM12N (NAD83)	AS	21-Apr-11	HEN-459
IZK	WS004018	WATER	416616	7280106	UTM12N (NAD83)	AS	21-Apr-11	HEN-457
IZK	WS004019	WATER	417175	7280325	UTM12N (NAD83)	AS	24-Apr-11	HEN-456
IZK	WS004020	WATER	416521	7280668	UTM12N (NAD83)	AS	28-Apr-11	HEN-461
IZK	WS004021	WATER	416636	7280139	UTM12N (NAD83)	AS	28-Apr-11	HEN-457
IZK	WS004022	WATER	417670	7280228	UTM12N (NAD83)	AS	28-Apr-11	HEN-460
IZK	WS004023	WATER	416706	7280195	UTM12N (NAD83)	KAB	05-May-11	HEN-459
IZK	WS004024	WATER	416351	7280765	UTM12N (NAD83)	KAB	05-May-11	HEN-461
IZK	WS004025	WATER	417590	7280452	UTM12N (NAD83)	AF	07-May-11	IZK11-51
IZK	WS004026	WATER	417285	7280493	UTM12N (NAD83)	AF	07-May-11	IZK11-50
IZK	WS004027	WATER	416596	7280588	UTM12N (NAD83)	AF	07-May-11	IZK11-15A
IZK	WS004028	WATER	417669	7280239	UTM12N (NAD83)	GLE	10-May-11	HEN-460
IZK	WS004029	WATER	416761	7280841	UTM12N (NAD83)	GLE	17-May-11	HEN-466
IZK	WS004030	WATER	416602	7280605	UTM12N (NAD83)	GLE	17-May-11	HEN-464
IZK	WS004032	WATER	417568	7280474	UTM12N (NAD83)	KAB	22-May-11	HEN-463
IZK	WS004033	WATER	416381	7280757	UTM12N (NAD83)	KAB	22-May-11	HEN-461
IZK	WS004034	WATER	416738	7280833	UTM12N (NAD83)	AS	26-May-11	HEN-466

Appendix II : Water Sampling Results



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 23-MAR-11
Report Date: 29-MAR-11 12:49 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L988504
Project P.O. #: NOT SUBMITTED
Job Reference: IZOK CAMP
Legal Site Desc:
C of C Numbers: A067991

Susan Clark
Account Manager

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L988504-1 WS004001							
Sampled By: CLIENT on 17-MAR-11 @ 15:20							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		24-MAR-11	R2101044
Total Metals in Water by ICMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		25-MAR-11	R2109463
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		25-MAR-11	R2109463
Arsenic (As)-Total	<0.00040		0.00040	mg/L		25-MAR-11	R2109463
Barium (Ba)-Total	0.0039		0.0030	mg/L		25-MAR-11	R2109463
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		25-MAR-11	R2109463
Boron (B)-Total	<0.050		0.050	mg/L		25-MAR-11	R2109463
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		25-MAR-11	R2109463
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		25-MAR-11	R2109463
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		25-MAR-11	R2109463
Copper (Cu)-Total	0.0017		0.0010	mg/L		25-MAR-11	R2109463
Lead (Pb)-Total	<0.00010		0.00010	mg/L		25-MAR-11	R2109463
Lithium (Li)-Total	<0.010		0.010	mg/L		25-MAR-11	R2109463
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		25-MAR-11	R2109463
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		25-MAR-11	R2109463
Selenium (Se)-Total	<0.00040		0.00040	mg/L		25-MAR-11	R2109463
Silver (Ag)-Total	<0.00010		0.00010	mg/L		25-MAR-11	R2109463
Strontium (Sr)-Total	0.00815		0.00020	mg/L		25-MAR-11	R2109463
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		25-MAR-11	R2109463
Tin (Sn)-Total	<0.050		0.050	mg/L		25-MAR-11	R2109463
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		25-MAR-11	R2109463
Uranium (U)-Total	0.00011		0.00010	mg/L		25-MAR-11	R2109463
Vanadium (V)-Total	<0.0010		0.0010	mg/L		25-MAR-11	R2109463
Zinc (Zn)-Total	0.0076		0.0040	mg/L		25-MAR-11	R2109463
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.82		0.50	mg/L		28-MAR-11	R2111566
Iron (Fe)-Total	0.016		0.010	mg/L		28-MAR-11	R2111566
Magnesium (Mg)-Total	0.89		0.10	mg/L		28-MAR-11	R2111566
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		28-MAR-11	R2111566
Potassium (K)-Total	0.63		0.10	mg/L		28-MAR-11	R2111566
Sodium (Na)-Total	<1.0		1.0	mg/L		28-MAR-11	R2111566
L988504-2 WS004002							
Sampled By: CLIENT on 17-MAR-11 @ 15:20							
Matrix: WATER							
pH and Conductivity							
pH	6.78		0.10	pH		24-MAR-11	R2102883
Conductivity (EC)	19.7		0.20	uS/cm		24-MAR-11	R2102883
L988504-3 WS004003							
Sampled By: CLIENT on 17-MAR-11 @ 15:20							
Matrix: WATER							
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		25-MAR-11	R2104703

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-T-CVAA-ED	Water	Mercury (Hg) - Total	EPA 245.7 / EPA 245.1
MET-T-L-ICP-ED	Water	Total Metals in Water by ICPOES (Low)	APHA 3120 B-ICP-OES
MET-T-L-MS-ED	Water	Total Metals in Water by ICPMS (Low)	SW 846 - 6020-ICPMS
PH/EC-ED	Water	pH and Conductivity	APHA 4500-H, 2510
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids	APHA 2540 D-Gravimetric

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS LABORATORY GROUP - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

A067991

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg wwwt - milligrams per kilogram based on wet weight of sample

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 28-MAR-11
Report Date: 06-APR-11 15:36 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L989607
Project P.O. #: 08-130
Job Reference: IZOK CAMP
Legal Site Desc:
C of C Numbers: A067986

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L989607-1 WS004004							
Sampled By: CLIENT on 24-MAR-11 @ 11:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		29-MAR-11	R2118203
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		30-MAR-11	R2122663
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Arsenic (As)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Barium (Ba)-Total	0.0040		0.0030	mg/L		30-MAR-11	R2122663
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Boron (B)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		30-MAR-11	R2122663
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Copper (Cu)-Total	0.0016		0.0010	mg/L		30-MAR-11	R2122663
Lead (Pb)-Total	0.00024		0.00010	mg/L		30-MAR-11	R2122663
Lithium (Li)-Total	<0.010		0.010	mg/L		30-MAR-11	R2122663
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Selenium (Se)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Silver (Ag)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Strontium (Sr)-Total	0.00898		0.00020	mg/L		30-MAR-11	R2122663
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Tin (Sn)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Uranium (U)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Vanadium (V)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Zinc (Zn)-Total	0.0068		0.0040	mg/L		30-MAR-11	R2122663
Total Metals In Water by ICPAES (Low)							
Calcium (Ca)-Total	1.66		0.50	mg/L		30-MAR-11	R2125626
Iron (Fe)-Total	0.012		0.010	mg/L		30-MAR-11	R2125626
Magnesium (Mg)-Total	0.79		0.10	mg/L		30-MAR-11	R2125626
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2125626
Potassium (K)-Total	0.52		0.10	mg/L		30-MAR-11	R2125626
Sodium (Na)-Total	<1.0		1.0	mg/L		30-MAR-11	R2125626
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		29-MAR-11	R2116643
pH and Conductivity							
pH	6.75		0.10	pH		28-MAR-11	R2110644
Conductivity (EC)	19.0		0.20	uS/cm		28-MAR-11	R2110644
L989607-2 WS004005							
Sampled By: CLIENT on 24-MAR-11 @ 11:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		29-MAR-11	R2118203
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.026		0.010	mg/L		30-MAR-11	R2122663
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Arsenic (As)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Barium (Ba)-Total	0.0045		0.0030	mg/L		30-MAR-11	R2122663
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Boron (B)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L989607-2 WS004005							
Sampled By: CLIENT on 24-MAR-11 @ 11:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		30-MAR-11	R2122663
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Copper (Cu)-Total	0.0018		0.0010	mg/L		30-MAR-11	R2122663
Lead (Pb)-Total	0.00021		0.00010	mg/L		30-MAR-11	R2122663
Lithium (Li)-Total	<0.010		0.010	mg/L		30-MAR-11	R2122663
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Selenium (Se)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Silver (Ag)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Strontium (Sr)-Total	0.00928		0.00020	mg/L		30-MAR-11	R2122663
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Tin (Sn)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Uranium (U)-Total	0.00011		0.00010	mg/L		30-MAR-11	R2122663
Vanadium (V)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Zinc (Zn)-Total	0.0082		0.0040	mg/L		30-MAR-11	R2122663
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.91		0.50	mg/L		30-MAR-11	R2125626
Iron (Fe)-Total	0.014		0.010	mg/L		30-MAR-11	R2125626
Magnesium (Mg)-Total	0.93		0.10	mg/L		30-MAR-11	R2125626
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2125626
Potassium (K)-Total	0.70		0.10	mg/L		30-MAR-11	R2125626
Sodium (Na)-Total	<1.0		1.0	mg/L		30-MAR-11	R2125626
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		29-MAR-11	R2116643
pH and Conductivity							
pH	6.76		0.10	pH		28-MAR-11	R2110644
Conductivity (EC)	22.0		0.20	uS/cm		28-MAR-11	R2110644
L989607-3 WS004006							
Sampled By: CLIENT on 24-MAR-11 @ 12:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		29-MAR-11	R2118203
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		30-MAR-11	R2122663
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Arsenic (As)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663
Barium (Ba)-Total	0.0035		0.0030	mg/L		30-MAR-11	R2122663
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Boron (B)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		30-MAR-11	R2122663
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Copper (Cu)-Total	0.0017		0.0010	mg/L		30-MAR-11	R2122663
Lead (Pb)-Total	0.00024		0.00010	mg/L		30-MAR-11	R2122663
Lithium (Li)-Total	<0.010		0.010	mg/L		30-MAR-11	R2122663
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		30-MAR-11	R2122663
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2122663
Selenium (Se)-Total	<0.00040		0.00040	mg/L		30-MAR-11	R2122663

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L989607-3 WS004006							
Sampled By: CLIENT on 24-MAR-11 @ 12:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Strontium (Sr)-Total	0.00796		0.00020	mg/L		30-MAR-11	R2122663
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		30-MAR-11	R2122663
Tin (Sn)-Total	<0.050		0.050	mg/L		30-MAR-11	R2122663
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Uranium (U)-Total	0.00010		0.00010	mg/L		30-MAR-11	R2122663
Vanadium (V)-Total	<0.0010		0.0010	mg/L		30-MAR-11	R2122663
Zinc (Zn)-Total	0.0065		0.0040	mg/L		30-MAR-11	R2122663
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.61		0.50	mg/L		30-MAR-11	R2125626
Iron (Fe)-Total	0.011		0.010	mg/L		30-MAR-11	R2125626
Magnesium (Mg)-Total	0.78		0.10	mg/L		30-MAR-11	R2125626
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		30-MAR-11	R2125626
Potassium (K)-Total	0.53		0.10	mg/L		30-MAR-11	R2125626
Sodium (Na)-Total	<1.0		1.0	mg/L		30-MAR-11	R2125626
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		29-MAR-11	R2116643
pH and Conductivity							
pH	6.83		0.10	pH		28-MAR-11	R2110644
Conductivity (EC)	18.5		0.20	uS/cm		28-MAR-11	R2110644

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 06-APR-11
Report Date: 12-APR-11 15:08 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L992496
Project P.O. #: 08-130
Job Reference:
Legal Site Desc:
C of C Numbers: C026885

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L992496-1 WS004007							
Sampled By: CLIENT on 03-APR-11							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		07-APR-11	R2154763
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.025		0.010	mg/L		08-APR-11	R2165703
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Arsenic (As)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Barium (Ba)-Total	0.0044		0.0030	mg/L		08-APR-11	R2165703
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Boron (B)-Total	<0.050		0.050	mg/L		08-APR-11	R2165703
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		08-APR-11	R2165703
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Copper (Cu)-Total	0.0017		0.0010	mg/L		08-APR-11	R2165703
Lead (Pb)-Total	0.00020		0.00010	mg/L		08-APR-11	R2165703
Lithium (Li)-Total	<0.010		0.010	mg/L		08-APR-11	R2165703
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Selenium (Se)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Silver (Ag)-Total	<0.00010		0.00010	mg/L		08-APR-11	R2165703
Strontium (Sr)-Total	0.00827		0.00020	mg/L		08-APR-11	R2165703
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		08-APR-11	R2165703
Tin (Sn)-Total	<0.050		0.050	mg/L		08-APR-11	R2165703
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Uranium (U)-Total	0.00010		0.00010	mg/L		08-APR-11	R2165703
Vanadium (V)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Zinc (Zn)-Total	0.0093		0.0040	mg/L		08-APR-11	R2165703
Total Metals In Water by ICPOES (Low)							
Calcium (Ca)-Total	1.92		0.50	mg/L		07-APR-11	R2155744
Iron (Fe)-Total	0.029		0.010	mg/L		07-APR-11	R2155744
Magnesium (Mg)-Total	1.06		0.10	mg/L		07-APR-11	R2155744
Manganese (Mn)-Total	0.0026		0.0020	mg/L		07-APR-11	R2155744
Potassium (K)-Total	0.68		0.10	mg/L		07-APR-11	R2155744
Sodium (Na)-Total	<1.0		1.0	mg/L		07-APR-11	R2155744
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		07-APR-11	R2155008
pH and Conductivity							
pH	6.62		0.10	pH		06-APR-11	R2148203
Conductivity (EC)	20.5		0.20	uS/cm		06-APR-11	R2148203
L992496-2 WS004008							
Sampled By: CLIENT on 03-APR-11 @ 02:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		07-APR-11	R2154763
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.026		0.010	mg/L		08-APR-11	R2165703
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Arsenic (As)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Barium (Ba)-Total	0.0112		0.0030	mg/L		08-APR-11	R2165703
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Boron (B)-Total	<0.050		0.050	mg/L		08-APR-11	R2165703

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L992496-2 WS004008							
Sampled By: CLIENT on 03-APR-11 @ 02:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		08-APR-11	R2165703
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Copper (Cu)-Total	0.0019		0.0010	mg/L		08-APR-11	R2165703
Lead (Pb)-Total	0.00065		0.00010	mg/L		08-APR-11	R2165703
Lithium (Li)-Total	<0.010		0.010	mg/L		08-APR-11	R2165703
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Selenium (Se)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Silver (Ag)-Total	<0.00010		0.00010	mg/L		08-APR-11	R2165703
Strontium (Sr)-Total	0.00871		0.00020	mg/L		08-APR-11	R2165703
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		08-APR-11	R2165703
Tin (Sn)-Total	<0.050		0.050	mg/L		08-APR-11	R2165703
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Uranium (U)-Total	0.00010		0.00010	mg/L		08-APR-11	R2165703
Vanadium (V)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Zinc (Zn)-Total	0.0102		0.0040	mg/L		08-APR-11	R2165703
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.98		0.50	mg/L		07-APR-11	R2155744
Iron (Fe)-Total	0.021		0.010	mg/L		07-APR-11	R2155744
Magnesium (Mg)-Total	1.02		0.10	mg/L		07-APR-11	R2155744
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		07-APR-11	R2155744
Potassium (K)-Total	0.58		0.10	mg/L		07-APR-11	R2155744
Sodium (Na)-Total	<1.0		1.0	mg/L		07-APR-11	R2155744
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		07-APR-11	R2155008
pH and Conductivity							
pH	6.66		0.10	pH		06-APR-11	R2148203
Conductivity (EC)	20.4		0.20	uS/cm		06-APR-11	R2148203
L992496-3 WS004009							
Sampled By: CLIENT on 03-APR-11 @ 04:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		07-APR-11	R2154763
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.020		0.010	mg/L		08-APR-11	R2165703
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Arsenic (As)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703
Barium (Ba)-Total	0.0030		0.0030	mg/L		08-APR-11	R2165703
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		08-APR-11	R2165703
Boron (B)-Total	<0.050		0.050	mg/L		08-APR-11	R2165703
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		08-APR-11	R2165703
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Copper (Cu)-Total	0.0012		0.0010	mg/L		08-APR-11	R2165703
Lead (Pb)-Total	<0.00010		0.00010	mg/L		08-APR-11	R2165703
Lithium (Li)-Total	<0.010		0.010	mg/L		08-APR-11	R2165703
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		08-APR-11	R2165703
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		08-APR-11	R2165703
Selenium (Se)-Total	<0.00040		0.00040	mg/L		08-APR-11	R2165703

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L992496-3	WS004009							
Sampled By: CLIENT on 03-APR-11 @ 04:30								
Matrix: WATER								
Total Metals in Water by ICPMS (Low)								
Silver (Ag)-Total	<0.00010		0.00010		mg/L		08-APR-11	R2165703
Strontium (Sr)-Total	0.00650		0.00020		mg/L		08-APR-11	R2165703
Thallium (Tl)-Total	<0.00010		0.00010		mg/L		08-APR-11	R2165703
Tin (Sn)-Total	<0.050		0.050		mg/L		08-APR-11	R2165703
Titanium (Ti)-Total	<0.0010		0.0010		mg/L		08-APR-11	R2165703
Uranium (U)-Total	<0.00010		0.00010		mg/L		08-APR-11	R2165703
Vanadium (V)-Total	<0.0010		0.0010		mg/L		08-APR-11	R2165703
Zinc (Zn)-Total	0.0041		0.0040		mg/L		08-APR-11	R2165703
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total	1.43		0.50		mg/L		07-APR-11	R2155744
Iron (Fe)-Total	<0.010		0.010		mg/L		07-APR-11	R2155744
Magnesium (Mg)-Total	0.78		0.10		mg/L		07-APR-11	R2155744
Manganese (Mn)-Total	<0.0020		0.0020		mg/L		07-APR-11	R2155744
Potassium (K)-Total	0.43		0.10		mg/L		07-APR-11	R2155744
Sodium (Na)-Total	<1.0		1.0		mg/L		07-APR-11	R2155744
Miscellaneous Parameters								
Total Suspended Solids	<3.0		3.0		mg/L		07-APR-11	R2155008
pH and Conductivity								
pH	6.69		0.10		pH		06-APR-11	R2148203
Conductivity (EC)	16.3		0.20		uS/cm		06-APR-11	R2148203

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 14-APR-11
Report Date: 20-APR-11 12:12 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L995040
Project P.O. #: 10-00433
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: C026886

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L995040-1 WS004010							
Sampled By: KB on 10-APR-11 @ 10:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		16-APR-11	R2177293
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		15-APR-11	R2177621
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Arsenic (As)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Barium (Ba)-Total	0.0034		0.0030	mg/L		15-APR-11	R2177621
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Boron (B)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		15-APR-11	R2177621
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Copper (Cu)-Total	0.0016		0.0010	mg/L		15-APR-11	R2177621
Lead (Pb)-Total	0.00018		0.00010	mg/L		15-APR-11	R2177621
Lithium (Li)-Total	<0.010		0.010	mg/L		15-APR-11	R2177621
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Selenium (Se)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Silver (Ag)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Strontium (Sr)-Total	0.00731		0.00020	mg/L		15-APR-11	R2177621
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Tin (Sn)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Uranium (U)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Vanadium (V)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Zinc (Zn)-Total	0.0066		0.0040	mg/L		15-APR-11	R2177621
Total Metals In Water by ICPOES (Low)							
Calcium (Ca)-Total	1.68		0.50	mg/L		15-APR-11	R2177265
Iron (Fe)-Total	0.016		0.010	mg/L		15-APR-11	R2177265
Magnesium (Mg)-Total	0.78		0.10	mg/L		15-APR-11	R2177265
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177265
Potassium (K)-Total	0.48		0.10	mg/L		15-APR-11	R2177265
Sodium (Na)-Total	<1.0		1.0	mg/L		15-APR-11	R2177265
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		15-APR-11	R2176576
pH and Conductivity							
pH	6.97		0.10	pH		14-APR-11	R2174970
Conductivity (EC)	15.6		0.20	uS/cm		14-APR-11	R2174970
L995040-2 WS004011							
Sampled By: KB on 10-APR-11 @ 11:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		16-APR-11	R2177293
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.040		0.010	mg/L		15-APR-11	R2177621
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Arsenic (As)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Barium (Ba)-Total	0.0050		0.0030	mg/L		15-APR-11	R2177621
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Boron (B)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L995040-2 WS004011							
Sampled By: KB on 10-APR-11 @ 11:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		15-APR-11	R2177621
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Copper (Cu)-Total	0.0023		0.0010	mg/L		15-APR-11	R2177621
Lead (Pb)-Total	0.00060		0.00010	mg/L		15-APR-11	R2177621
Lithium (Li)-Total	<0.010		0.010	mg/L		15-APR-11	R2177621
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Selenium (Se)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Silver (Ag)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Strontium (Sr)-Total	0.00935		0.00020	mg/L		15-APR-11	R2177621
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Tin (Sn)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Uranium (U)-Total	0.00012		0.00010	mg/L		15-APR-11	R2177621
Vanadium (V)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Zinc (Zn)-Total	0.0106		0.0040	mg/L		15-APR-11	R2177621
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.94		0.50	mg/L		18-APR-11	R2177780
Iron (Fe)-Total	0.040		0.010	mg/L		18-APR-11	R2177780
Magnesium (Mg)-Total	0.83		0.10	mg/L		18-APR-11	R2177780
Manganese (Mn)-Total	0.0048		0.0020	mg/L		18-APR-11	R2177780
Potassium (K)-Total	0.55		0.10	mg/L		18-APR-11	R2177780
Sodium (Na)-Total	<1.0		1.0	mg/L		18-APR-11	R2177780
Miscellaneous Parameters							
Total Suspended Solids	4.0		3.0	mg/L		15-APR-11	R2176576
pH and Conductivity							
pH	7.03		0.10	pH		14-APR-11	R2174970
Conductivity (EC)	22.3		0.20	uS/cm		14-APR-11	R2174970
L995040-3 WS004012							
Sampled By: KB on 10-APR-11 @ 11:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		16-APR-11	R2177293
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.023		0.010	mg/L		15-APR-11	R2177621
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Arsenic (As)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Barium (Ba)-Total	0.0032		0.0030	mg/L		15-APR-11	R2177621
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Boron (B)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		15-APR-11	R2177621
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Copper (Cu)-Total	0.0016		0.0010	mg/L		15-APR-11	R2177621
Lead (Pb)-Total	0.00022		0.00010	mg/L		15-APR-11	R2177621
Lithium (Li)-Total	<0.010		0.010	mg/L		15-APR-11	R2177621
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Selenium (Se)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L995040-3 WS004012							
Sampled By: KB on 10-APR-11 @ 11:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Strontium (Sr)-Total	0.00688		0.00020	mg/L		15-APR-11	R2177621
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Tin (Sn)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Uranium (U)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Vanadium (V)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Zinc (Zn)-Total	0.0062		0.0040	mg/L		15-APR-11	R2177621
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.41		0.50	mg/L		15-APR-11	R2177265
Iron (Fe)-Total	<0.010		0.010	mg/L		15-APR-11	R2177265
Magnesium (Mg)-Total	0.68		0.10	mg/L		15-APR-11	R2177265
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177265
Potassium (K)-Total	0.44		0.10	mg/L		15-APR-11	R2177265
Sodium (Na)-Total	<1.0		1.0	mg/L		15-APR-11	R2177265
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		15-APR-11	R2176576
pH and Conductivity							
pH	7.00		0.10	pH		14-APR-11	R2174970
Conductivity (EC)	14.7		0.20	uS/cm		14-APR-11	R2174970
L995040-4 WS004013							
Sampled By: KB on 10-APR-11 @ 13:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		16-APR-11	R2177293
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.023		0.010	mg/L		15-APR-11	R2177621
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Arsenic (As)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Barium (Ba)-Total	0.0034		0.0030	mg/L		15-APR-11	R2177621
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Boron (B)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		15-APR-11	R2177621
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Copper (Cu)-Total	0.0015		0.0010	mg/L		15-APR-11	R2177621
Lead (Pb)-Total	0.00020		0.00010	mg/L		15-APR-11	R2177621
Lithium (Li)-Total	<0.010		0.010	mg/L		15-APR-11	R2177621
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		15-APR-11	R2177621
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		15-APR-11	R2177621
Selenium (Se)-Total	<0.00040		0.00040	mg/L		15-APR-11	R2177621
Silver (Ag)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Strontium (Sr)-Total	0.00700		0.00020	mg/L		15-APR-11	R2177621
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Tin (Sn)-Total	<0.050		0.050	mg/L		15-APR-11	R2177621
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Uranium (U)-Total	<0.00010		0.00010	mg/L		15-APR-11	R2177621
Vanadium (V)-Total	<0.0010		0.0010	mg/L		15-APR-11	R2177621
Zinc (Zn)-Total	0.0098		0.0040	mg/L		15-APR-11	R2177621
Total Metals in Water by ICPOES (Low)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

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Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters		Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L995040-4	WS004013							
Sampled By: KB on 10-APR-11 @ 13:30								
Matrix: WATER								
Total Metals in Water by ICPOES (Low)								
Calcium (Ca)-Total		1.43		0.50	mg/L		15-APR-11	R2177265
Iron (Fe)-Total		0.016		0.010	mg/L		15-APR-11	R2177265
Magnesium (Mg)-Total		0.70		0.10	mg/L		15-APR-11	R2177265
Manganese (Mn)-Total		<0.0020		0.0020	mg/L		15-APR-11	R2177265
Potassium (K)-Total		0.48		0.10	mg/L		15-APR-11	R2177265
Sodium (Na)-Total		<1.0		1.0	mg/L		15-APR-11	R2177265
Miscellaneous Parameters								
Total Suspended Solids		<3.0		3.0	mg/L		15-APR-11	R2176576
pH and Conductivity								
pH		6.98		0.10	pH		14-APR-11	R2174970
Conductivity (EC)		14.6		0.20	uS/cm		14-APR-11	R2174970

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 20-APR-11
Report Date: 28-APR-11 15:36 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L996714
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: CO20572

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L996714-1 WS004014							
Sampled By: CLIENT on 16-APR-11 @ 13:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		21-APR-11	R2179375
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.023		0.010	mg/L		27-APR-11	R2181289
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Arsenic (As)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Barium (Ba)-Total	0.0038		0.0030	mg/L		27-APR-11	R2181289
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Boron (B)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		27-APR-11	R2181289
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Copper (Cu)-Total	0.0015		0.0010	mg/L		27-APR-11	R2181289
Lead (Pb)-Total	0.00030		0.00010	mg/L		27-APR-11	R2181289
Lithium (Li)-Total	<0.010		0.010	mg/L		27-APR-11	R2181289
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Selenium (Se)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Silver (Ag)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Strontium (Sr)-Total	0.00679		0.00020	mg/L		27-APR-11	R2181289
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Tin (Sn)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Uranium (U)-Total	0.00010		0.00010	mg/L		27-APR-11	R2181289
Vanadium (V)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Zinc (Zn)-Total	0.0060		0.0040	mg/L		27-APR-11	R2181289
Total Metals In Water by ICPOES (Low)							
Calcium (Ca)-Total	1.55		0.50	mg/L		25-APR-11	R2180191
Iron (Fe)-Total	<0.010		0.010	mg/L		25-APR-11	R2180191
Magnesium (Mg)-Total	0.83		0.10	mg/L		25-APR-11	R2180191
Manganese (Mn)-Total	0.0028		0.0020	mg/L		25-APR-11	R2180191
Potassium (K)-Total	0.45		0.10	mg/L		25-APR-11	R2180191
Sodium (Na)-Total	<1.0		1.0	mg/L		25-APR-11	R2180191
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		25-APR-11	R2179917
pH and Conductivity							
pH	6.90		0.10	pH		21-APR-11	R2179245
Conductivity (EC)	16.5		0.20	uS/cm		21-APR-11	R2179245
L996714-2 WS004015							
Sampled By: CLIENT on 16-APR-11 @ 13:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		21-APR-11	R2179375
Total Metals In Water by ICPMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		27-APR-11	R2181289
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Arsenic (As)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Barium (Ba)-Total	0.0039		0.0030	mg/L		27-APR-11	R2181289
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Boron (B)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L996714-2 WS004015							
Sampled By: CLIENT on 16-APR-11 @ 13:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		27-APR-11	R2181289
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Copper (Cu)-Total	0.0014		0.0010	mg/L		27-APR-11	R2181289
Lead (Pb)-Total	0.00022		0.00010	mg/L		27-APR-11	R2181289
Lithium (Li)-Total	<0.010		0.010	mg/L		27-APR-11	R2181289
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Selenium (Se)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Silver (Ag)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Strontium (Sr)-Total	0.00724		0.00020	mg/L		27-APR-11	R2181289
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Tin (Sn)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Uranium (U)-Total	0.00010		0.00010	mg/L		27-APR-11	R2181289
Vanadium (V)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Zinc (Zn)-Total	0.0062		0.0040	mg/L		27-APR-11	R2181289
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.74		0.50	mg/L		25-APR-11	R2180191
Iron (Fe)-Total	<0.010		0.010	mg/L		25-APR-11	R2180191
Magnesium (Mg)-Total	0.89		0.10	mg/L		25-APR-11	R2180191
Manganese (Mn)-Total	0.0027		0.0020	mg/L		25-APR-11	R2180191
Potassium (K)-Total	0.44		0.10	mg/L		25-APR-11	R2180191
Sodium (Na)-Total	<1.0		1.0	mg/L		25-APR-11	R2180191
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		25-APR-11	R2179917
pH and Conductivity							
pH	6.92		0.10	pH		21-APR-11	R2179245
Conductivity (EC)	17.0		0.20	uS/cm		21-APR-11	R2179245
L996714-3 WS004016							
Sampled By: CLIENT on 18-APR-11 @ 11:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		21-APR-11	R2179375
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.023		0.010	mg/L		27-APR-11	R2181289
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Arsenic (As)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289
Barium (Ba)-Total	0.0040		0.0030	mg/L		27-APR-11	R2181289
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Boron (B)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		27-APR-11	R2181289
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Copper (Cu)-Total	0.0017		0.0010	mg/L		27-APR-11	R2181289
Lead (Pb)-Total	0.00021		0.00010	mg/L		27-APR-11	R2181289
Lithium (Li)-Total	<0.010		0.010	mg/L		27-APR-11	R2181289
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		27-APR-11	R2181289
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		27-APR-11	R2181289
Selenium (Se)-Total	<0.00040		0.00040	mg/L		27-APR-11	R2181289

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L996714-3 WS004016							
Sampled By: CLIENT on 18-APR-11 @ 11:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Strontium (Sr)-Total	0.00710		0.00020	mg/L		27-APR-11	R2181289
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		27-APR-11	R2181289
Tin (Sn)-Total	<0.050		0.050	mg/L		27-APR-11	R2181289
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Uranium (U)-Total	0.00010		0.00010	mg/L		27-APR-11	R2181289
Vanadium (V)-Total	<0.0010		0.0010	mg/L		27-APR-11	R2181289
Zinc (Zn)-Total	0.0079		0.0040	mg/L		27-APR-11	R2181289
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.64		0.50	mg/L		25-APR-11	R2180191
Iron (Fe)-Total	<0.010		0.010	mg/L		25-APR-11	R2180191
Magnesium (Mg)-Total	0.87		0.10	mg/L		25-APR-11	R2180191
Manganese (Mn)-Total	0.0025		0.0020	mg/L		25-APR-11	R2180191
Potassium (K)-Total	0.55		0.10	mg/L		25-APR-11	R2180191
Sodium (Na)-Total	<1.0		1.0	mg/L		25-APR-11	R2180191
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		25-APR-11	R2179917
pH and Conductivity							
pH	6.92		0.10	pH		21-APR-11	R2179245
Conductivity (EC)	16.6		0.20	uS/cm		21-APR-11	R2179245

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 27-APR-11
Report Date: 03-MAY-11 14:59 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L998450
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: C020573

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L998450-1 WS004017							
Sampled By: CLIENT on 21-APR-11 @ 13:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		28-APR-11	R2182332
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.023		0.010	mg/L		29-APR-11	R2182267
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Barium (Ba)-Total	0.0035		0.0030	mg/L		29-APR-11	R2182267
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Boron (B)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-APR-11	R2182267
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Copper (Cu)-Total	0.0016		0.0010	mg/L		29-APR-11	R2182267
Lead (Pb)-Total	0.00027		0.00010	mg/L		29-APR-11	R2182267
Lithium (Li)-Total	<0.010		0.010	mg/L		29-APR-11	R2182267
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Strontium (Sr)-Total	0.00803		0.00020	mg/L		29-APR-11	R2182267
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Tin (Sn)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Uranium (U)-Total	0.00010		0.00010	mg/L		29-APR-11	R2182267
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Zinc (Zn)-Total	0.0064		0.0040	mg/L		29-APR-11	R2182267
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.56		0.50	mg/L		28-APR-11	R2182754
Iron (Fe)-Total	0.011		0.010	mg/L		28-APR-11	R2182754
Magnesium (Mg)-Total	0.74		0.10	mg/L		28-APR-11	R2182754
Manganese (Mn)-Total	0.0028		0.0020	mg/L		28-APR-11	R2182754
Potassium (K)-Total	0.48		0.10	mg/L		28-APR-11	R2182754
Sodium (Na)-Total	<1.0		1.0	mg/L		28-APR-11	R2182754
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		28-APR-11	R2182084
pH and Conductivity							
pH	6.97		0.10	pH		27-APR-11	R2180814
Conductivity (EC)	15.6		0.20	uS/cm		27-APR-11	R2180814
L998450-2 WS004018							
Sampled By: CLIENT on 21-APR-11 @ 14:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		28-APR-11	R2182332
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.024		0.010	mg/L		29-APR-11	R2182267
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Barium (Ba)-Total	0.0038		0.0030	mg/L		29-APR-11	R2182267
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Boron (B)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L998450-2 WS004018							
Sampled By: CLIENT on 21-APR-11 @ 14:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-APR-11	R2182267
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Copper (Cu)-Total	0.0016		0.0010	mg/L		29-APR-11	R2182267
Lead (Pb)-Total	0.00035		0.00010	mg/L		29-APR-11	R2182267
Lithium (Li)-Total	<0.010		0.010	mg/L		29-APR-11	R2182267
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Strontium (Sr)-Total	0.00848		0.00020	mg/L		29-APR-11	R2182267
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Tin (Sn)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Uranium (U)-Total	0.00011		0.00010	mg/L		29-APR-11	R2182267
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Zinc (Zn)-Total	0.0063		0.0040	mg/L		29-APR-11	R2182267
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.68		0.50	mg/L		28-APR-11	R2182754
Iron (Fe)-Total	<0.010		0.010	mg/L		28-APR-11	R2182754
Magnesium (Mg)-Total	0.81		0.10	mg/L		28-APR-11	R2182754
Manganese (Mn)-Total	0.0034		0.0020	mg/L		28-APR-11	R2182754
Potassium (K)-Total	0.58		0.10	mg/L		28-APR-11	R2182754
Sodium (Na)-Total	<1.0		1.0	mg/L		28-APR-11	R2182754
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		28-APR-11	R2182084
pH and Conductivity							
pH	6.95		0.10	pH		27-APR-11	R2180814
Conductivity (EC)	16.8		0.20	uS/cm		27-APR-11	R2180814
L998450-3 WS004019							
Sampled By: CLIENT on 24-APR-11 @ 13:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		28-APR-11	R2182332
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.021		0.010	mg/L		29-APR-11	R2182267
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267
Barium (Ba)-Total	0.0044		0.0030	mg/L		29-APR-11	R2182267
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Boron (B)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-APR-11	R2182267
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Copper (Cu)-Total	0.0017		0.0010	mg/L		29-APR-11	R2182267
Lead (Pb)-Total	0.00062		0.00010	mg/L		29-APR-11	R2182267
Lithium (Li)-Total	<0.010		0.010	mg/L		29-APR-11	R2182267
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-APR-11	R2182267
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-APR-11	R2182267
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-APR-11	R2182267

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L998450-3 WS004019							
Sampled By: CLIENT on 24-APR-11 @ 13:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Strontium (Sr)-Total	0.00768		0.00020	mg/L		29-APR-11	R2182267
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-APR-11	R2182267
Tin (Sn)-Total	<0.050		0.050	mg/L		29-APR-11	R2182267
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Uranium (U)-Total	0.00010		0.00010	mg/L		29-APR-11	R2182267
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-APR-11	R2182267
Zinc (Zn)-Total	0.0070		0.0040	mg/L		29-APR-11	R2182267
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.63		0.50	mg/L		28-APR-11	R2182754
Iron (Fe)-Total	<0.010		0.010	mg/L		28-APR-11	R2182754
Magnesium (Mg)-Total	0.74		0.10	mg/L		28-APR-11	R2182754
Manganese (Mn)-Total	0.0033		0.0020	mg/L		28-APR-11	R2182754
Potassium (K)-Total	0.51		0.10	mg/L		28-APR-11	R2182754
Sodium (Na)-Total	<1.0		1.0	mg/L		28-APR-11	R2182754
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		28-APR-11	R2182084
pH and Conductivity							
pH	6.92		0.10	pH		27-APR-11	R2180814
Conductivity (EC)	16.6		0.20	uS/cm		27-APR-11	R2180814

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 05-MAY-11
Report Date: 12-MAY-11 14:32 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L1001405
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: c020571

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1001405-1 WS 004020 Sampled By: CLIENT on 28-APR-11 @ 14:00 Matrix: WATER Total Metals - CCME Mercury (Hg) - Total Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2185652
Total Metals in Water by ICPMS (Low) Aluminum (Al)-Total	0.018		0.010	mg/L		06-MAY-11	R2186574
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Arsenic (As)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Barium (Ba)-Total	<0.0030		0.0030	mg/L		06-MAY-11	R2186574
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Boron (B)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		06-MAY-11	R2186574
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Copper (Cu)-Total	0.0014		0.0010	mg/L		06-MAY-11	R2186574
Lead (Pb)-Total	0.00036		0.00010	mg/L		06-MAY-11	R2186574
Lithium (Li)-Total	<0.010		0.010	mg/L		06-MAY-11	R2186574
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Selenium (Se)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Silver (Ag)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Strontium (Sr)-Total	0.00525		0.00020	mg/L		06-MAY-11	R2186574
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Tin (Sn)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Uranium (U)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Vanadium (V)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Zinc (Zn)-Total	<0.0040		0.0040	mg/L		06-MAY-11	R2186574
Total Metals in Water by ICPOES (Low) Calcium (Ca)-Total	1.06		0.50	mg/L		06-MAY-11	R2186328
Iron (Fe)-Total	0.010		0.010	mg/L		06-MAY-11	R2186328
Magnesium (Mg)-Total	0.59		0.10	mg/L		06-MAY-11	R2186328
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186328
Potassium (K)-Total	0.40		0.10	mg/L		06-MAY-11	R2186328
Sodium (Na)-Total	<1.0		1.0	mg/L		06-MAY-11	R2186328
Miscellaneous Parameters Total Suspended Solids	<3.0		3.0	mg/L		06-MAY-11	R2185706
pH and Conductivity pH	6.96		0.10	pH		05-MAY-11	R2185129
Conductivity (EC)	15.4		0.20	uS/cm		05-MAY-11	R2185129
L1001405-2 WS 004021 Sampled By: CLIENT on 28-APR-11 @ 14:30 Matrix: WATER Total Metals - CCME Mercury (Hg) - Total Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2185652
Total Metals in Water by ICPMS (Low) Aluminum (Al)-Total	0.023		0.010	mg/L		06-MAY-11	R2186574
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Arsenic (As)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Barium (Ba)-Total	0.0040		0.0030	mg/L		06-MAY-11	R2186574
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Boron (B)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1001405-2 WS 004021							
Sampled By: CLIENT on 28-APR-11 @ 14:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		06-MAY-11	R2186574
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Copper (Cu)-Total	0.0021		0.0010	mg/L		06-MAY-11	R2186574
Lead (Pb)-Total	0.00042		0.00010	mg/L		06-MAY-11	R2186574
Lithium (Li)-Total	<0.010		0.010	mg/L		06-MAY-11	R2186574
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Selenium (Se)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Silver (Ag)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Strontium (Sr)-Total	0.00673		0.00020	mg/L		06-MAY-11	R2186574
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Tin (Sn)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Uranium (U)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Vanadium (V)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Zinc (Zn)-Total	0.0070		0.0040	mg/L		06-MAY-11	R2186574
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.50		0.50	mg/L		06-MAY-11	R2186328
Iron (Fe)-Total	0.011		0.010	mg/L		06-MAY-11	R2186328
Magnesium (Mg)-Total	0.75		0.10	mg/L		06-MAY-11	R2186328
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186328
Potassium (K)-Total	0.51		0.10	mg/L		06-MAY-11	R2186328
Sodium (Na)-Total	<1.0		1.0	mg/L		06-MAY-11	R2186328
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		06-MAY-11	R2185706
pH and Conductivity							
pH	6.96		0.10	pH		05-MAY-11	R2185129
Conductivity (EC)	18.6		0.20	uS/cm		05-MAY-11	R2185129
L1001405-3 WS 004022							
Sampled By: CLIENT on 28-APR-11 @ 14:50							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2185652
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.021		0.010	mg/L		06-MAY-11	R2186574
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Arsenic (As)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574
Barium (Ba)-Total	0.0039		0.0030	mg/L		06-MAY-11	R2186574
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Boron (B)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		06-MAY-11	R2186574
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Copper (Cu)-Total	0.0016		0.0010	mg/L		06-MAY-11	R2186574
Lead (Pb)-Total	0.00038		0.00010	mg/L		06-MAY-11	R2186574
Lithium (Li)-Total	<0.010		0.010	mg/L		06-MAY-11	R2186574
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		06-MAY-11	R2186574
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186574
Selenium (Se)-Total	<0.00040		0.00040	mg/L		06-MAY-11	R2186574

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1001405-3 WS 004022							
Sampled By: CLIENT on 28-APR-11 @ 14:50							
Matrix: WATER							
Total Metals in Water by ICMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Strontium (Sr)-Total	0.00721		0.00020	mg/L		06-MAY-11	R2186574
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Tin (Sn)-Total	<0.050		0.050	mg/L		06-MAY-11	R2186574
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Uranium (U)-Total	<0.00010		0.00010	mg/L		06-MAY-11	R2186574
Vanadium (V)-Total	<0.0010		0.0010	mg/L		06-MAY-11	R2186574
Zinc (Zn)-Total	0.0067		0.0040	mg/L		06-MAY-11	R2186574
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.54		0.50	mg/L		06-MAY-11	R2186328
Iron (Fe)-Total	0.012		0.010	mg/L		06-MAY-11	R2186328
Magnesium (Mg)-Total	0.85		0.10	mg/L		06-MAY-11	R2186328
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		06-MAY-11	R2186328
Potassium (K)-Total	0.55		0.10	mg/L		06-MAY-11	R2186328
Sodium (Na)-Total	<1.0		1.0	mg/L		06-MAY-11	R2186328
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		06-MAY-11	R2185706
pH and Conductivity							
pH	6.97		0.10	pH		05-MAY-11	R2185129
Conductivity (EC)	18.9		0.20	uS/cm		05-MAY-11	R2185129

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
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VANCOUVER BC V6C 3E1

Date Received: 12-MAY-11
Report Date: 19-MAY-11 09:06 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L1004177
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: C026887

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1004177-1 WS004023							
Sampled By: CLIENT on 05-MAY-11 @ 14:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2188688
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.028		0.010	mg/L		13-MAY-11	R2189634
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Arsenic (As)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Barium (Ba)-Total	0.0042		0.0030	mg/L		13-MAY-11	R2189634
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Boron (B)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Cadmium (Cd)-Total	0.000052		0.000050	mg/L		13-MAY-11	R2189634
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Copper (Cu)-Total	0.0027		0.0010	mg/L		13-MAY-11	R2189634
Lead (Pb)-Total	0.00088		0.00010	mg/L		13-MAY-11	R2189634
Lithium (Li)-Total	<0.010		0.010	mg/L		13-MAY-11	R2189634
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Selenium (Se)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Silver (Ag)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Strontium (Sr)-Total	0.00693		0.00020	mg/L		13-MAY-11	R2189634
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Tin (Sn)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Uranium (U)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Vanadium (V)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Zinc (Zn)-Total	0.0134		0.0040	mg/L		13-MAY-11	R2189634
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.85		0.50	mg/L		13-MAY-11	R2188782
Iron (Fe)-Total	0.033		0.010	mg/L		13-MAY-11	R2188782
Magnesium (Mg)-Total	0.82		0.10	mg/L		13-MAY-11	R2188782
Manganese (Mn)-Total	0.0028		0.0020	mg/L		13-MAY-11	R2188782
Potassium (K)-Total	0.48		0.10	mg/L		13-MAY-11	R2188782
Sodium (Na)-Total	<1.0		1.0	mg/L		13-MAY-11	R2188782
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		13-MAY-11	R2188680
pH and Conductivity							
pH	6.87		0.10	pH		12-MAY-11	R2188390
Conductivity (EC)	17.4		0.20	uS/cm		12-MAY-11	R2188390
L1004177-2 WS004024							
Sampled By: CLIENT on 05-MAY-11 @ 14:15							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2188688
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.041		0.010	mg/L		16-MAY-11	R2190281
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		16-MAY-11	R2190281
Arsenic (As)-Total	<0.00040		0.00040	mg/L		16-MAY-11	R2190281
Barium (Ba)-Total	0.0044		0.0030	mg/L		16-MAY-11	R2190281
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		16-MAY-11	R2190281
Boron (B)-Total	<0.050		0.050	mg/L		16-MAY-11	R2190281

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1004177-2 WS004024							
Sampled By: CLIENT on 05-MAY-11 @ 14:15							
Matrix: WATER							
Total Metals in Water by ICPMs (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		16-MAY-11	R2190281
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		16-MAY-11	R2190281
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		16-MAY-11	R2190281
Copper (Cu)-Total	0.0021		0.0010	mg/L		16-MAY-11	R2190281
Lead (Pb)-Total	0.00056		0.00010	mg/L		16-MAY-11	R2190281
Lithium (Li)-Total	<0.010		0.010	mg/L		16-MAY-11	R2190281
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		16-MAY-11	R2190281
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		16-MAY-11	R2190281
Selenium (Se)-Total	<0.00040		0.00040	mg/L		16-MAY-11	R2190281
Silver (Ag)-Total	<0.00010		0.00010	mg/L		16-MAY-11	R2190281
Strontium (Sr)-Total	0.00846		0.00020	mg/L		16-MAY-11	R2190281
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		16-MAY-11	R2190281
Tin (Sn)-Total	<0.050		0.050	mg/L		16-MAY-11	R2190281
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		16-MAY-11	R2190281
Uranium (U)-Total	0.00013		0.00010	mg/L		16-MAY-11	R2190281
Vanadium (V)-Total	<0.0010		0.0010	mg/L		16-MAY-11	R2190281
Zinc (Zn)-Total	0.0103		0.0040	mg/L		16-MAY-11	R2190281
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.76		0.50	mg/L		13-MAY-11	R2188782
Iron (Fe)-Total	0.054		0.010	mg/L		13-MAY-11	R2188782
Magnesium (Mg)-Total	0.88		0.10	mg/L		13-MAY-11	R2188782
Manganese (Mn)-Total	0.0022		0.0020	mg/L		13-MAY-11	R2188782
Potassium (K)-Total	0.58		0.10	mg/L		13-MAY-11	R2188782
Sodium (Na)-Total	<1.0		1.0	mg/L		13-MAY-11	R2188782
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		13-MAY-11	R2188680
pH and Conductivity							
pH	6.95		0.10	pH		12-MAY-11	R2188390
Conductivity (EC)	17.9		0.20	uS/cm		12-MAY-11	R2188390
L1004177-3 WS004025							
Sampled By: CLIENT on 07-MAY-11 @ 13:50							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2188688
Total Metals in Water by ICPMs (Low)							
Aluminum (Al)-Total	0.028		0.010	mg/L		13-MAY-11	R2189634
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Arsenic (As)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Barium (Ba)-Total	0.0047		0.0030	mg/L		13-MAY-11	R2189634
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Boron (B)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		13-MAY-11	R2189634
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Copper (Cu)-Total	0.0024		0.0010	mg/L		13-MAY-11	R2189634
Lead (Pb)-Total	0.00080		0.00010	mg/L		13-MAY-11	R2189634
Lithium (Li)-Total	<0.010		0.010	mg/L		13-MAY-11	R2189634
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Selenium (Se)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1004177-3 WS004025							
Sampled By: CLIENT on 07-MAY-11 @ 13:50							
Matrix: WATER							
Total Metals in Water by ICPMs (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Strontium (Sr)-Total	0.00808		0.00020	mg/L		13-MAY-11	R2189634
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Tin (Sn)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Uranium (U)-Total	0.00011		0.00010	mg/L		13-MAY-11	R2189634
Vanadium (V)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Zinc (Zn)-Total	0.0135		0.0040	mg/L		13-MAY-11	R2189634
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.79		0.50	mg/L		13-MAY-11	R2188782
Iron (Fe)-Total	0.026		0.010	mg/L		13-MAY-11	R2188782
Magnesium (Mg)-Total	0.96		0.10	mg/L		13-MAY-11	R2188782
Manganese (Mn)-Total	0.0024		0.0020	mg/L		13-MAY-11	R2188782
Potassium (K)-Total	0.58		0.10	mg/L		13-MAY-11	R2188782
Sodium (Na)-Total	<1.0		1.0	mg/L		13-MAY-11	R2188782
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		13-MAY-11	R2188680
pH and Conductivity							
pH	6.92		0.10	pH		12-MAY-11	R2188390
Conductivity (EC)	18.0		0.20	uS/cm		12-MAY-11	R2188390
L1004177-4 WS004026							
Sampled By: CLIENT on 07-MAY-11 @ 14:15							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2188688
Total Metals in Water by ICPMs (Low)							
Aluminum (Al)-Total	0.025		0.010	mg/L		13-MAY-11	R2189634
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Arsenic (As)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Barium (Ba)-Total	0.0036		0.0030	mg/L		13-MAY-11	R2189634
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Boron (B)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		13-MAY-11	R2189634
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Copper (Cu)-Total	0.0017		0.0010	mg/L		13-MAY-11	R2189634
Lead (Pb)-Total	0.00023		0.00010	mg/L		13-MAY-11	R2189634
Lithium (Li)-Total	<0.010		0.010	mg/L		13-MAY-11	R2189634
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Selenium (Se)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Silver (Ag)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Strontium (Sr)-Total	0.00754		0.00020	mg/L		13-MAY-11	R2189634
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Tin (Sn)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Uranium (U)-Total	0.00010		0.00010	mg/L		13-MAY-11	R2189634
Vanadium (V)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Zinc (Zn)-Total	0.0073		0.0040	mg/L		13-MAY-11	R2189634
Total Metals in Water by ICPOES (Low)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1004177-4 WS004026							
Sampled By: CLIENT on 07-MAY-11 @ 14:15							
Matrix: WATER							
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.61		0.50	mg/L		13-MAY-11	R2188782
Iron (Fe)-Total	<0.010		0.010	mg/L		13-MAY-11	R2188782
Magnesium (Mg)-Total	0.90		0.10	mg/L		13-MAY-11	R2188782
Manganese (Mn)-Total	0.0026		0.0020	mg/L		13-MAY-11	R2188782
Potassium (K)-Total	0.55		0.10	mg/L		13-MAY-11	R2188782
Sodium (Na)-Total	<1.0		1.0	mg/L		13-MAY-11	R2188782
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		13-MAY-11	R2188680
pH and Conductivity							
pH	6.94		0.10	pH		12-MAY-11	R2188390
Conductivity (EC)	17.9		0.20	uS/cm		12-MAY-11	R2188390
L1004177-5 WS004027							
Sampled By: CLIENT on 07-MAY-11 @ 14:40							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2188688
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.022		0.010	mg/L		13-MAY-11	R2189634
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Arsenic (As)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Barium (Ba)-Total	<0.0030		0.0030	mg/L		13-MAY-11	R2189634
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Boron (B)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		13-MAY-11	R2189634
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Copper (Cu)-Total	0.0012		0.0010	mg/L		13-MAY-11	R2189634
Lead (Pb)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Lithium (Li)-Total	<0.010		0.010	mg/L		13-MAY-11	R2189634
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		13-MAY-11	R2189634
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2189634
Selenium (Se)-Total	<0.00040		0.00040	mg/L		13-MAY-11	R2189634
Silver (Ag)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Strontium (Sr)-Total	0.00638		0.00020	mg/L		13-MAY-11	R2189634
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Tin (Sn)-Total	<0.050		0.050	mg/L		13-MAY-11	R2189634
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Uranium (U)-Total	<0.00010		0.00010	mg/L		13-MAY-11	R2189634
Vanadium (V)-Total	<0.0010		0.0010	mg/L		13-MAY-11	R2189634
Zinc (Zn)-Total	0.0059		0.0040	mg/L		13-MAY-11	R2189634
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.41		0.50	mg/L		13-MAY-11	R2188782
Iron (Fe)-Total	<0.010		0.010	mg/L		13-MAY-11	R2188782
Magnesium (Mg)-Total	0.79		0.10	mg/L		13-MAY-11	R2188782
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		13-MAY-11	R2188782
Potassium (K)-Total	0.47		0.10	mg/L		13-MAY-11	R2188782
Sodium (Na)-Total	<1.0		1.0	mg/L		13-MAY-11	R2188782
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		13-MAY-11	R2188680
pH and Conductivity							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 17-MAY-11
Report Date: 25-MAY-11 16:47 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L1005873
Project P.O. #: 4500891125
Job Reference:
Legal Site Desc:
C of C Numbers: C026888

Susan Clark
Account Manager

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Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1005873-1	WSOO4028						
Sampled By:	NA on 10-MAY-11 @ 14:00						
Matrix:	WATER						
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		20-MAY-11	R2191997
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.029		0.010	mg/L		19-MAY-11	R2191880
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		19-MAY-11	R2191880
Arsenic (As)-Total	<0.00040		0.00040	mg/L		19-MAY-11	R2191880
Barium (Ba)-Total	0.0054		0.0030	mg/L		19-MAY-11	R2191880
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		19-MAY-11	R2191880
Boron (B)-Total	<0.050		0.050	mg/L		19-MAY-11	R2191880
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		19-MAY-11	R2191880
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		19-MAY-11	R2191880
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		19-MAY-11	R2191880
Copper (Cu)-Total	0.0059		0.0010	mg/L		19-MAY-11	R2191880
Lead (Pb)-Total	0.00146		0.00010	mg/L		19-MAY-11	R2191880
Lithium (Li)-Total	<0.010		0.010	mg/L		19-MAY-11	R2191880
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		19-MAY-11	R2191880
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		19-MAY-11	R2191880
Selenium (Se)-Total	<0.00040		0.00040	mg/L		19-MAY-11	R2191880
Silver (Ag)-Total	<0.00010		0.00010	mg/L		19-MAY-11	R2191880
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		19-MAY-11	R2191880
Tin (Sn)-Total	<0.050		0.050	mg/L		19-MAY-11	R2191880
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		19-MAY-11	R2191880
Uranium (U)-Total	0.00010		0.00010	mg/L		19-MAY-11	R2191880
Vanadium (V)-Total	<0.0010		0.0010	mg/L		19-MAY-11	R2191880
Zinc (Zn)-Total	0.0146		0.0040	mg/L		19-MAY-11	R2191880
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.99		0.50	mg/L		19-MAY-11	R2191608
Iron (Fe)-Total	0.037		0.010	mg/L		19-MAY-11	R2191608
Magnesium (Mg)-Total	0.74		0.10	mg/L		19-MAY-11	R2191608
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		19-MAY-11	R2191608
Potassium (K)-Total	0.51		0.10	mg/L		19-MAY-11	R2191608
Sodium (Na)-Total	<1.0		1.0	mg/L		19-MAY-11	R2191608
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		19-MAY-11	R2191371
pH and Conductivity							
pH	7.09		0.10	pH		18-MAY-11	R2190547
Conductivity (EC)	21.9		0.20	uS/cm		18-MAY-11	R2190547

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-T-CVAA-ED	Water	Mercury (Hg) - Total	EPA 245.7 / EPA 245.1
MET-T-L-ICP-ED	Water	Total Metals in Water by ICPOES (Low)	APHA 3120 B-ICP-OES
MET-T-L-MS-ED	Water	Total Metals in Water by ICPMS (Low)	SW 846 - 6020-ICPMS
PH/EC-ED	Water	pH and Conductivity	APHA 4500-H, 2510
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids	APHA 2540 D-Gravimetric

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

C026888

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lw - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 25-MAY-11
Report Date: 02-JUN-11 22:30 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L1008504
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers:

Susan Clark
Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008504-1 WSOO4029							
Sampled By: CLIENT on 17-MAY-11 @ 14:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		31-MAY-11	R2196249
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.019		0.010	mg/L		29-MAY-11	R2195885
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Barium (Ba)-Total	0.0042		0.0030	mg/L		29-MAY-11	R2195885
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Boron (B)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-MAY-11	R2195885
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Copper (Cu)-Total	0.0012		0.0010	mg/L		29-MAY-11	R2195885
Lead (Pb)-Total	0.00076		0.00010	mg/L		29-MAY-11	R2195885
Lithium (Li)-Total	<0.010		0.010	mg/L		29-MAY-11	R2195885
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Strontium (Sr)-Total	0.00214		0.00020	mg/L		29-MAY-11	R2195885
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Tin (Sn)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Uranium (U)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Zinc (Zn)-Total	0.0176		0.0040	mg/L		29-MAY-11	R2195885
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	0.57		0.50	mg/L		28-MAY-11	R2194913
Iron (Fe)-Total	0.037		0.010	mg/L		28-MAY-11	R2194913
Magnesium (Mg)-Total	0.19		0.10	mg/L		28-MAY-11	R2194913
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		28-MAY-11	R2194913
Potassium (K)-Total	0.11		0.10	mg/L		28-MAY-11	R2194913
Sodium (Na)-Total	<1.0		1.0	mg/L		28-MAY-11	R2194913
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		30-MAY-11	R2195620
pH and Conductivity							
pH	6.41		0.10	pH		25-MAY-11	R2192863
Conductivity (EC)	5.61		0.20	uS/cm		25-MAY-11	R2192863
L1008504-2 WSOO4030							
Sampled By: CLIENT on 17-MAY-11 @ 14:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		31-MAY-11	R2196249
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.028		0.010	mg/L		29-MAY-11	R2195885
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Barium (Ba)-Total	0.0059		0.0030	mg/L		29-MAY-11	R2195885
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Boron (B)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008504-2 WSOO4030							
Sampled By: CLIENT on 17-MAY-11 @ 14:00							
Matrix: WATER							
Total Metals in Water by ICPMs (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-MAY-11	R2195885
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Copper (Cu)-Total	0.0023		0.0010	mg/L		29-MAY-11	R2195885
Lead (Pb)-Total	0.00185		0.00010	mg/L		29-MAY-11	R2195885
Lithium (Li)-Total	<0.010		0.010	mg/L		29-MAY-11	R2195885
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Strontium (Sr)-Total	0.00598		0.00020	mg/L		29-MAY-11	R2195885
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Tin (Sn)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Uranium (U)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Zinc (Zn)-Total	0.0136		0.0040	mg/L		29-MAY-11	R2195885
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	2.02		0.50	mg/L		28-MAY-11	R2194913
Iron (Fe)-Total	0.032		0.010	mg/L		28-MAY-11	R2194913
Magnesium (Mg)-Total	0.52		0.10	mg/L		28-MAY-11	R2194913
Manganese (Mn)-Total	0.0044		0.0020	mg/L		28-MAY-11	R2194913
Potassium (K)-Total	0.35		0.10	mg/L		28-MAY-11	R2194913
Sodium (Na)-Total	<1.0		1.0	mg/L		28-MAY-11	R2194913
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		30-MAY-11	R2195620
pH and Conductivity							
pH	6.81		0.10	pH		25-MAY-11	R2192863
Conductivity (EC)	20.4		0.20	uS/cm		25-MAY-11	R2192863
L1008504-3 WSOO4032							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		31-MAY-11	R2196249
Total Metals in Water by ICPMs (Low)							
Aluminum (Al)-Total	0.025		0.010	mg/L		29-MAY-11	R2195885
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Barium (Ba)-Total	<0.0030		0.0030	mg/L		29-MAY-11	R2195885
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Boron (B)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-MAY-11	R2195885
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Copper (Cu)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Lead (Pb)-Total	0.00065		0.00010	mg/L		29-MAY-11	R2195885
Lithium (Li)-Total	<0.010		0.010	mg/L		29-MAY-11	R2195885
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008504-3 WSOO4032							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals in Water by ICMS (Low)							
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Strontium (Sr)-Total	0.00193		0.00020	mg/L		29-MAY-11	R2195885
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Tin (Sn)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Uranium (U)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Zinc (Zn)-Total	0.0072		0.0040	mg/L		29-MAY-11	R2195885
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	0.66		0.50	mg/L		28-MAY-11	R2194913
Iron (Fe)-Total	0.022		0.010	mg/L		28-MAY-11	R2194913
Magnesium (Mg)-Total	0.15		0.10	mg/L		28-MAY-11	R2194913
Manganese (Mn)-Total	0.0037		0.0020	mg/L		28-MAY-11	R2194913
Potassium (K)-Total	0.16		0.10	mg/L		28-MAY-11	R2194913
Sodium (Na)-Total	<1.0		1.0	mg/L		28-MAY-11	R2194913
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		30-MAY-11	R2195620
pH and Conductivity							
pH	6.31		0.10	pH		25-MAY-11	R2192863
Conductivity (EC)	6.70		0.20	uS/cm		25-MAY-11	R2192863
L1008504-4 WSOO4033							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		31-MAY-11	R2196249
Total Metals in Water by ICMS (Low)							
Aluminum (Al)-Total	0.030		0.010	mg/L		29-MAY-11	R2195885
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Arsenic (As)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Barium (Ba)-Total	0.0053		0.0030	mg/L		29-MAY-11	R2195885
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Boron (B)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		29-MAY-11	R2195885
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Copper (Cu)-Total	0.0015		0.0010	mg/L		29-MAY-11	R2195885
Lead (Pb)-Total	0.00026		0.00010	mg/L		29-MAY-11	R2195885
Lithium (Li)-Total	<0.010		0.010	mg/L		29-MAY-11	R2195885
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		29-MAY-11	R2195885
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		29-MAY-11	R2195885
Selenium (Se)-Total	<0.00040		0.00040	mg/L		29-MAY-11	R2195885
Silver (Ag)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Strontium (Sr)-Total	0.00517		0.00020	mg/L		29-MAY-11	R2195885
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Tin (Sn)-Total	<0.050		0.050	mg/L		29-MAY-11	R2195885
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Uranium (U)-Total	<0.00010		0.00010	mg/L		29-MAY-11	R2195885
Vanadium (V)-Total	<0.0010		0.0010	mg/L		29-MAY-11	R2195885
Zinc (Zn)-Total	0.0124		0.0040	mg/L		29-MAY-11	R2195885
Total Metals in Water by ICPOES (Low)							

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1008504-4 WSOO4033							
Sampled By: CLIENT on 22-MAY-11 @ 16:00							
Matrix: WATER							
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.13		0.50	mg/L		28-MAY-11	R2194913
Iron (Fe)-Total	0.040		0.010	mg/L		28-MAY-11	R2194913
Magnesium (Mg)-Total	0.44		0.10	mg/L		28-MAY-11	R2194913
Manganese (Mn)-Total	0.0111		0.0020	mg/L		28-MAY-11	R2194913
Potassium (K)-Total	0.27		0.10	mg/L		28-MAY-11	R2194913
Sodium (Na)-Total	<1.0		1.0	mg/L		28-MAY-11	R2194913
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		30-MAY-11	R2195620
pH and Conductivity							
pH	6.63		0.10	pH		25-MAY-11	R2192863
Conductivity (EC)	13.4		0.20	uS/cm		25-MAY-11	R2192863

* Refer to Referenced Information for Qualifiers (if any) and Methodology.



MMG RESOURCES INC
ATTN: KIMBERLEY BAILEY
555 - 999 CANADA PLACE
VANCOUVER BC V6C 3E1

Date Received: 01-JUN-11
Report Date: 07-JUN-11 14:48 (MT)
Version: FINAL

Client Phone: 778-373-5600

Certificate of Analysis

Lab Work Order #: L1011349
Project P.O. #: 4500891125
Job Reference: IZOK
Legal Site Desc:
C of C Numbers: C048808

Susan Clark
Account Manager

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ADDRESS: 9936-67 Avenue, Edmonton, AB T6E 0P5 Canada | Phone: +1 780 413 5227 | Fax: +1 780 437 2311
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Environmental

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011349-1 WS004034							
Sampled By: CLIENT on 26-MAY-11 @ 09:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		02-JUN-11	R2197781
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.059		0.010	mg/L		03-JUN-11	R2198517
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Arsenic (As)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Barium (Ba)-Total	0.0105		0.0030	mg/L		03-JUN-11	R2198517
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		03-JUN-11	R2198517
Boron (B)-Total	<0.050		0.050	mg/L		03-JUN-11	R2198517
Cadmium (Cd)-Total	0.000067		0.000050	mg/L		03-JUN-11	R2198517
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		03-JUN-11	R2198517
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		03-JUN-11	R2198517
Copper (Cu)-Total	0.0036		0.0010	mg/L		03-JUN-11	R2198517
Lead (Pb)-Total	0.00468		0.00010	mg/L		03-JUN-11	R2198517
Lithium (Li)-Total	<0.010		0.010	mg/L		03-JUN-11	R2198517
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		03-JUN-11	R2198517
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		03-JUN-11	R2198517
Selenium (Se)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Silver (Ag)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Strontium (Sr)-Total	0.00448		0.00020	mg/L		03-JUN-11	R2198517
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Tin (Sn)-Total	<0.050		0.050	mg/L		03-JUN-11	R2198517
Titanium (Ti)-Total	0.0019		0.0010	mg/L		03-JUN-11	R2198517
Uranium (U)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Vanadium (V)-Total	<0.0010		0.0010	mg/L		03-JUN-11	R2198517
Zinc (Zn)-Total	0.0238		0.0040	mg/L		03-JUN-11	R2198517
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	0.93		0.50	mg/L		04-JUN-11	R2198499
Iron (Fe)-Total	0.069		0.010	mg/L		04-JUN-11	R2198499
Magnesium (Mg)-Total	0.43		0.10	mg/L		04-JUN-11	R2198499
Manganese (Mn)-Total	0.0093		0.0020	mg/L		04-JUN-11	R2198499
Potassium (K)-Total	0.48		0.10	mg/L		04-JUN-11	R2198499
Sodium (Na)-Total	<1.0		1.0	mg/L		04-JUN-11	R2198499
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		03-JUN-11	R2198093
pH and Conductivity							
pH	6.56		0.10	pH		02-JUN-11	R2197622
Conductivity (EC)	6.91		0.20	uS/cm		02-JUN-11	R2197622
L1011349-2 WS004035							
Sampled By: CLIENT on 26-MAY-11 @ 10:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		02-JUN-11	R2197781
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.018		0.010	mg/L		03-JUN-11	R2198517
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Arsenic (As)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Barium (Ba)-Total	0.0054		0.0030	mg/L		03-JUN-11	R2198517
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		03-JUN-11	R2198517
Boron (B)-Total	<0.050		0.050	mg/L		03-JUN-11	R2198517

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L1011349-2 WS004035							
Sampled By: CLIENT on 26-MAY-11 @ 10:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		03-JUN-11	R2198517
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		03-JUN-11	R2198517
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		03-JUN-11	R2198517
Copper (Cu)-Total	0.0015		0.0010	mg/L		03-JUN-11	R2198517
Lead (Pb)-Total	0.00088		0.00010	mg/L		03-JUN-11	R2198517
Lithium (Li)-Total	<0.010		0.010	mg/L		03-JUN-11	R2198517
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		03-JUN-11	R2198517
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		03-JUN-11	R2198517
Selenium (Se)-Total	<0.00040		0.00040	mg/L		03-JUN-11	R2198517
Silver (Ag)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Strontium (Sr)-Total	0.00199		0.00020	mg/L		03-JUN-11	R2198517
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Tin (Sn)-Total	<0.050		0.050	mg/L		03-JUN-11	R2198517
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		03-JUN-11	R2198517
Uranium (U)-Total	<0.00010		0.00010	mg/L		03-JUN-11	R2198517
Vanadium (V)-Total	<0.0010		0.0010	mg/L		03-JUN-11	R2198517
Zinc (Zn)-Total	0.0079		0.0040	mg/L		03-JUN-11	R2198517
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	0.60		0.50	mg/L		04-JUN-11	R2198499
Iron (Fe)-Total	0.029		0.010	mg/L		04-JUN-11	R2198499
Magnesium (Mg)-Total	0.16		0.10	mg/L		04-JUN-11	R2198499
Manganese (Mn)-Total	0.0028		0.0020	mg/L		04-JUN-11	R2198499
Potassium (K)-Total	0.16		0.10	mg/L		04-JUN-11	R2198499
Sodium (Na)-Total	<1.0		1.0	mg/L		04-JUN-11	R2198499
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		03-JUN-11	R2198093
pH and Conductivity							
pH	6.73		0.10	pH		02-JUN-11	R2197622
Conductivity (EC)	11.7		0.20	uS/cm		02-JUN-11	R2197622

* Refer to Referenced Information for Qualifiers (if any) and Methodology.

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
HG-T-CVAA-ED	Water	Mercury (Hg) - Total	EPA 245.7 / EPA 245.1
MET-T-L-ICP-ED	Water	Total Metals in Water by ICPOES (Low)	APHA 3120 B-ICP-OES
MET-T-L-MS-ED	Water	Total Metals in Water by ICPMS (Low)	SW 846 - 6020-ICPMS
PH/EC-ED	Water	pH and Conductivity	APHA 4500-H, 2510
SOLIDS-TOTSUS-ED	Water	Total Suspended Solids	APHA 2540 D-Gravimetric

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
ED	ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Chain of Custody Numbers:

C048808

GLOSSARY OF REPORT TERMS

Surrogates are compounds that are similar in behaviour to target analyte(s), but that do not normally occur in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery. In reports that display the D.L. column, laboratory objectives for surrogates are listed there.

mg/kg - milligrams per kilogram based on dry weight of sample

mg/kg ww - milligrams per kilogram based on wet weight of sample

mg/kg lw - milligrams per kilogram based on lipid-adjusted weight

mg/L - unit of concentration based on volume, parts per million.

< - Less than.

D.L. - The reporting limit.

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Appendix III : Water Usage 2011

MONTH OF ACTIVITY	DOMESTIC USAGE (CAMP)
March	48490
April	67360
May	122367
June	210833
July	211020
August	85340

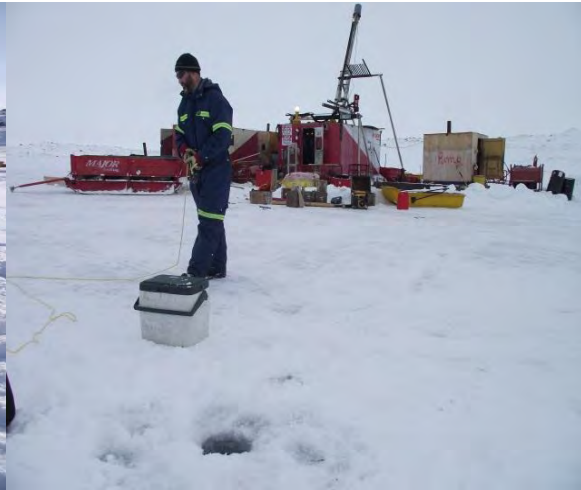
Average water use is between 1200 and 2500 Litres per day.

- Note: Water volumes are cumulative, each days total adding to the previous days and presented as a total usage. The water meter is located on the intake supply line just before it enters the storage tanks in the “dry” facility.
- Below zero temperatures make installation of water meters on drill supply pumps difficult, however we are looking at alternative methods to measuring usage volumes as requested.

Appendix IV : Photo Documentation of Water Sampling



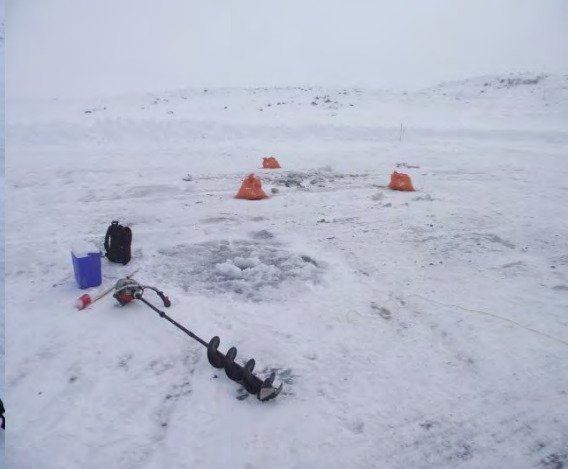
HEN448 – PRE



HEN448 - POST



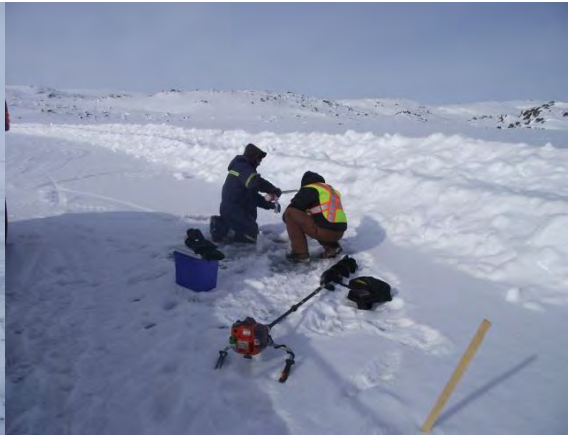
HEN449 – PRE



HEN449 – POST



HEN450 – PRE



HEN450 – POST



HEN451 – PRE



HEN451 – POST



HEN454 – PRE



HEN454 – POST



HEN457 – PRE



HEN457 - POST



HEN460 – PRE



HEN460 – POST



HEN465 – PRE



HEN465 – POST



HEN466 – PRE



HEN466 – POST



SPILL CONTINGENCY PLAN
EXPLORATION OPERATIONS

IZOK, HOOD AND GONDOR PROJECTS
NUNAVUT, CANADA

March, 2011

Prepared By:	_____	Date:	_____
	Ted Muraro – Operations Manager		
Reviewed By:	_____	Date:	_____
	Greg Duso – Project Manager		
AuthorizedBy:	_____	Date:	_____
	Ian Neill – Exploration Manager		

Mineral and Metals Group
555 – 999 Canada Place, Vancouver BC • Tel: 778-373-5600 • Fax: 778-373-5598



SPILL CONTINGENCY PLAN

EXPLORATION OPERATIONS

IZOK, HOOD AND GONDOR PROJECTS NUNAVUT, CANADA

March, 2011

Prepared By: _____ Date: _____
Ted Muraro – Operations Manager

Reviewed By: _____ Date: _____
Greg Duso – Project Manager

Authorized By: _____ Date: _____
Ian Neill – Exploration Manager

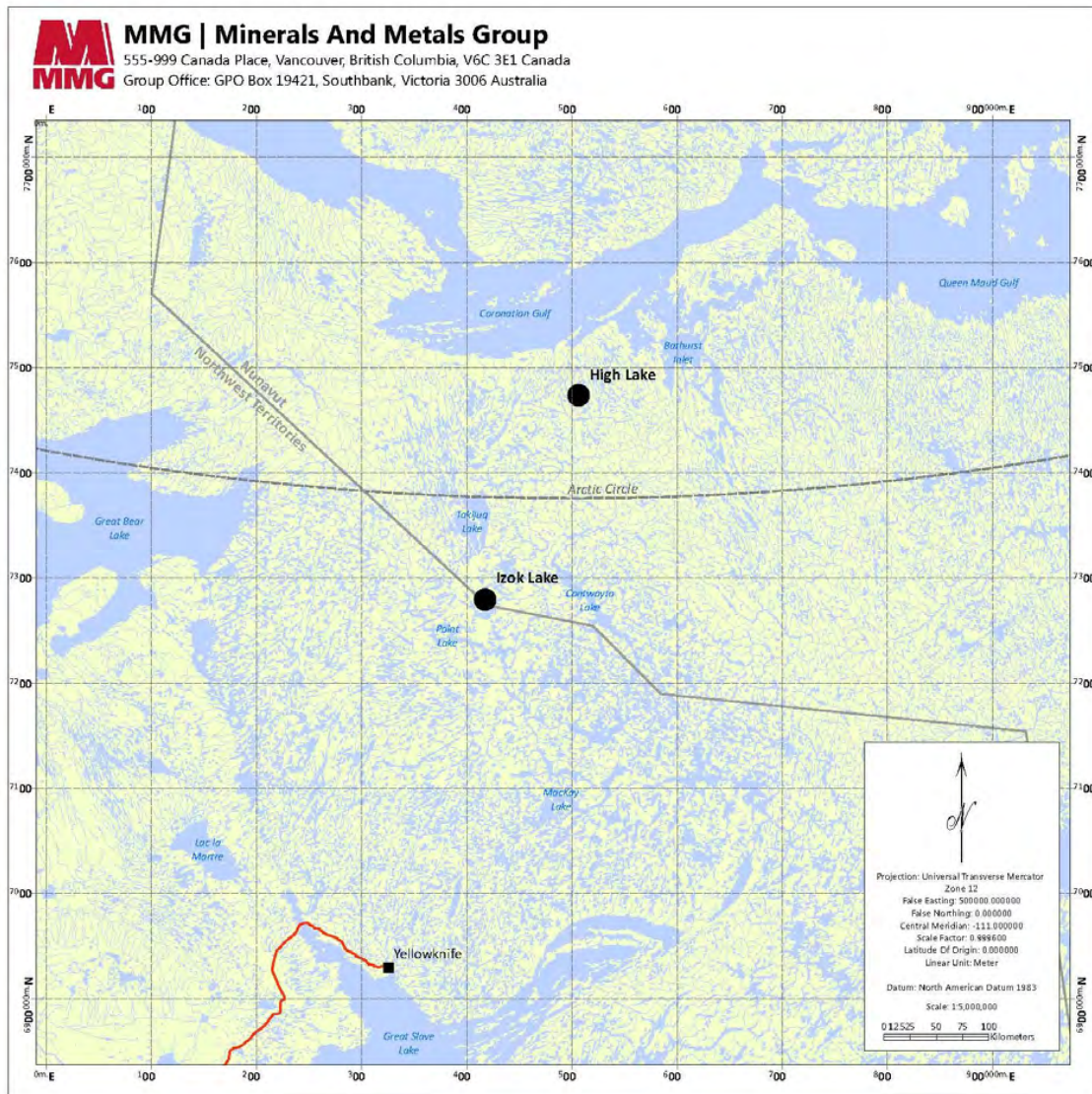
Mineral and Metals Group
555 – 999 Canada Place, Vancouver BC • Tel: 778-373-5600 • Fax: 778-373-5598

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Spill Contingency Plan

Izok and Hood Projects



Spill Contingency Plan
IZOK and Hood Projects

PREAMBLE

The Spill Contingency Plan is effective from January 1, 2008 to December 31, 2008 and applies to the Izok, Hood and Gondor Projects – Ham camp operated by Wolfden Resources in the Kitikmeot District of Nunavut, north latitude 65° 40' and west longitude 112° 50'. The project is under agreement with Nunavut Tunngavik Incorporated (NTI). Land Use permits with the Kitikmeot Inuit Association (KIA) and Nunavut Water Board (NWB) are currently in place.

The locations of the Izok drilling areas are shown on Figures 3 to 10. The Ham Camp layout is shown on Figure 2.

The following formal distribution has been made of this plan: KIA, NWB, Ian Neill (Exploration Manager, MMG), Greg Duso (Project Manager, MMG), Ted Muraro (Operations Manager, MMG) Martin McFarlane (President, MMG).

Spill Contingency Plan
IZOK and Hood Projects

INTRODUCTION

This Spill Contingency Plan is to provides a plan of action for reasonably foreseeable spill events at the Izok, Hood and Gondor Projects – Ham camp considering the nature of the fuels and other hazardous materials that will be handled during the Company’s operations The plan defines the responsibilities of key response personnel and outlines the procedures for responding to spill in a way that will act to minimize potential health and safety hazards, environmental damage and remediation costs. The plan has been prepared to provide ready access to all the information needed in dealing with a spill.

It is MMG policy to comply with all existing laws and regulations to help ensure the protection of the environment, to provide such protection of the environment as is technically feasible, to cooperate with other groups working on protection of the environment and to keep employees, government officials and the public informed.

Personnel will be instructed on the plan upon arrival in camp. Instruction will also be given on how to properly manipulate and store fuel and other hazardous substances and on the location of emergency equipment. A more graphical representation of this plan will be posted in common camp areas.

SITE DESCRIPTION

The camp is located on the South and East Shores of Ham Lake. The camp was established by the previous operator of the exploration project, Inmet Mining Corporation (Inmet). The camp includes an accommodation complex, diamond drill core logging and storage facilities, garage, fuel storage facilities. The camp is served by a 2500 foot long gravel air strip. The layout of the camp is shown on Figure 2.

From an inventory provided by Inmet, following is a list of the major components of the camp and ancillary facilities.

Major Camp Equipment/Facilities

- 13 – Travco trailer units
- 8 – 4' x 44' camp matting
- 1 – Oil fired incinerator (serial no. 18162)
- 1 – 10' x 44' Generator Building
- 2 – Cummins 150 kW diesel generators (serial no's. 44670421 and 4460441)
- 1 – Steel garage – 20' x 24'
- 2 – Wood frame, steel clad core storage warehouses
- 1 – Wood frame, aluminum clad 12' x 36' skidded core shack
- 1 – Weatherhaven Office 24' x 32
- 1 – Weatherhaven Large Sleeper 24' x 68'
- 10 – Weatherhaven 4 man Sleepers 14' x 16'
- 1 - Weatherhaven Kitchen 16' x 40'
- 2 - Weatherhaven Camp/Drillers Dry 16' x 24'

Fuel Tanks

- 7 – 12,000 gal fuel skid mounted fuel tanks

Mobile Equipment

- 1 – Caterpillar D-6 Bulldozer
- 1 – Champion Motor Grader
- 1 – Fuel Trailer
- 1- 1992 Ford Supercab F-350 trucks (diesel)

A map showing the regional setting of the project areas is provided on Figure 1. This plan can be extended to drilling operations that will be carried out at some distance from the camp.

Spill Contingency Plan
IZOK and Hood Projects

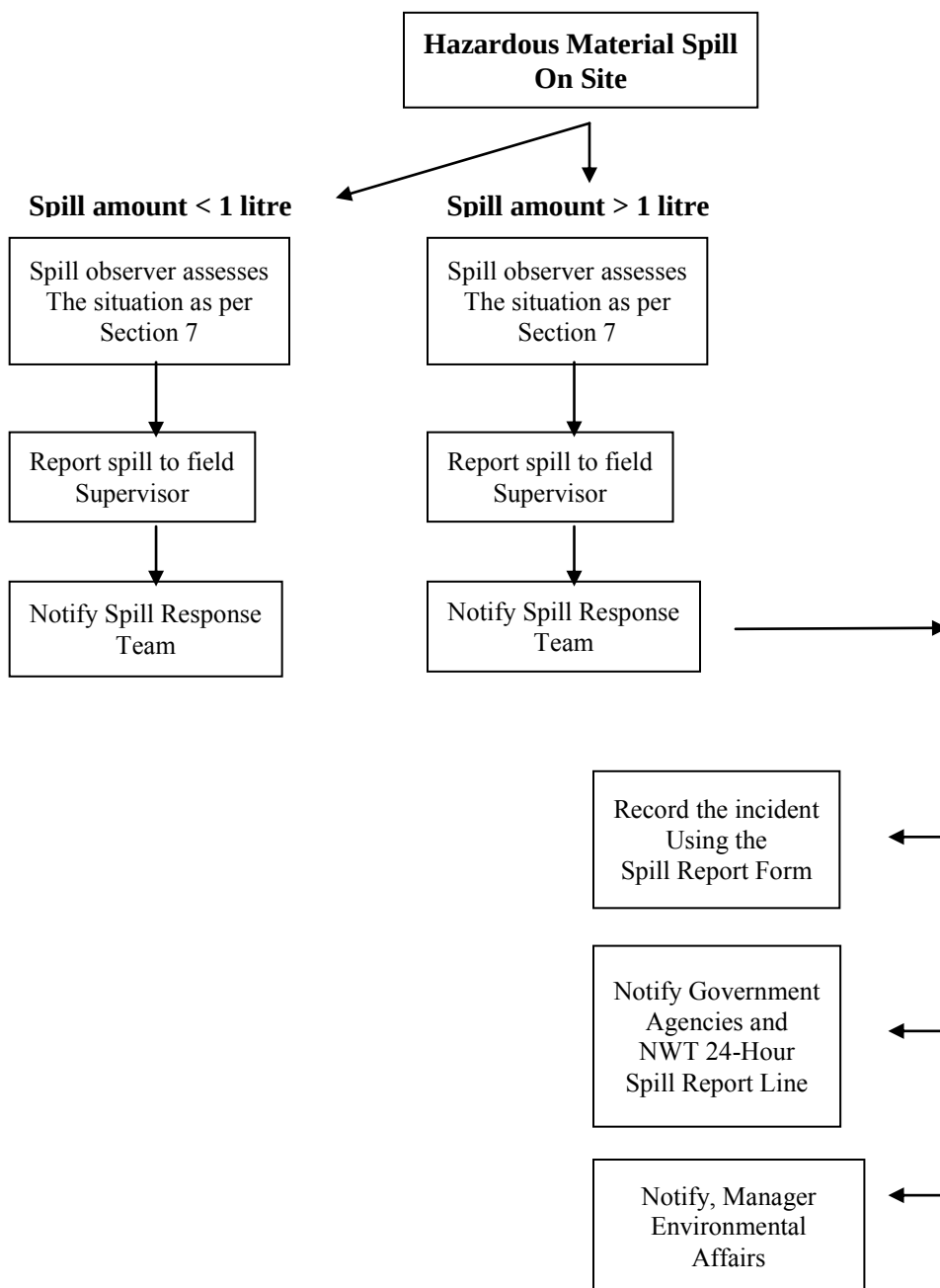
CONTACTS

People and organizations that can be contacted in the event of a spill:

Nunavut Contacts		
Exploration Manager	Ian Neill	778-373-5603
Camp Manager	Dean Moss	778-372-2674
Project Manager	Greg Duso	778-372-2679
Operations Manager	Ted Muraro	778-373-5589
MMG Head Office	Sahba Safavi	778-373-5600
Kitikmeot Inuit Association	Stanley Anablak	(867)-982-3310
Nunavut Water Board	Phyllis Beaulieu	(867)-360-6338 (867)-360-6369 (fax)
Spill Report Line (24 hr)		(867)-873-6924
Environment Canada		(867)-669-4644
WCB 24 Hour Accidents		(867)-873-7468
WCB Chief Mines Inspector	Peter Bengts	(867)-920-3888
Kugluktuk Health Center	Janet Carstairs	(867)-982-4531
Kugluktuk RCMP	Franco Radescho	(867)-982-1111 (867)-920-8130 (fax)
Indian and Northern Affairs Inspector	Andrew Keim	(867) 975-4289
NWT Contacts		
Wek'eezhii Land and Water Board	Regulatory Specialist	(867) 713-2500
Indian and Northern Affairs Inspector	Clint Ambrose	(867) 664-2794

RESPONSE ORGANIZATION

The following is a flow chart to illustrate the sequence of events if a hazardous material spill occurs at the Izok, Hood or Gondor Projects.



SPILL RESPONSE TEAM

All personnel will be informed of the contents of the Spill Contingency Plan and trained in the safe use of relevant spill prevention and clean up equipment. The Field Supervisor will appoint and train two persons to be the Spill Response Team. They will also be responsible to carry out the daily inspections of the fuel storage areas and equipment. Personnel on site will be limited, so for any large spill more people will be brought in to help, from surrounding exploration operations primarily from the High Lake Camp located 175km North of Izok and secondly from Yellowknife.

Spill Response Team Responsibilities

Perform daily inspections at the Camp fuel and chemical storage areas and fuel hoses.

Report any spill to Exploration Manager or designate.

Containment of the spill and site remediation.

Field Supervisor Responsibilities

Assume complete authority over the spill scene and coordinate all personnel involved.

Evaluate spill situation and develop overall plan of action.

Activate the spill contingency plan

Immediately report the spill to the NWT 24-Hour Spill Report Line and regulatory agencies. (For spill greater than 1 litre)

Fill out the Spill Report Form (for spill greater than 1 litre)

Report the spill to the Project Manager. (For spill greater than 1 litre)

If required, obtain additional manpower, equipment, and material if not available on site for spill response.

Manager, Environmental Affairs Responsibilities

Provide regulatory agencies and MMG management with information regarding the status of the clean up activities.

Prepare and submit a report on the spill incident to regulatory agencies within 30 days of the event.

INITIAL ACTION

These instructions are to be followed by the first person on the spill scene.

Always be alert and consider your safety first.

Wear personal protective equipment

Do not smoke and eliminate all source of ignition

Assess the hazard to people in the vicinity of the spill.

If possible control danger to human life

Do not touch, smell, taste or get close to unknown substance.

If substance has been identified and if possible and safe to do so, try to stop the flow of material.

If filling is in progress, stop at once

If seeping through a small hole, use a patch kit if practical to do so.

If necessary and practical, pump the fuel from the leaking container into a refuge container

Immediately report the spill to the Field Supervisor and Spill Response Team by radio, satellite phone or in person.

Resume any effective action to contain, mitigate, or terminate the flow of the spilled material.

If in doubt about cleaning procedures or for a very large spill, regulatory agencies can help.

REPORTING

The person who notices the spill must immediately notify the Field Supervisor. As soon as possible the Field Supervisor will report the spill to:

The 24-Hour Spill Report Line Phone (867) 920-8130, Fax (867) 873-6924

Fill out the NWT Spill Report Form NWT1752/0202

Notify the Manager, Environmental Affairs for a spill greater than 1 litre.

Notify permitting authorities (Nunavut Water Board, Kitikmeot Inuit Association)

RESOURCE INVENTORY

A spill kit with a capacity of 240 litres will be located at the fuel tank area and will contain:

- 1 – 360 litre/79 gallon polyethylene drum
- 4 – oil absorbent booms (5' X 10')
- 100 – oil absorbent sheets (16.5" X 20" X 3/8")
- 1 – drain cover (36" X 36" X 1/16")
- 1 – Caution tape (3" X 500')
- 1 – 1 lb plugging compound
- 2 – pair Nitrile gloves
- 2 – pair Safety goggles
- 2 – pair Tyvek coveralls
- 1 – instruction booklet
- 10 – printed disposable bags (24" X 48")
- 1- shovel (in remote spill kit only)
- 1- plastic tarp

Shovels, water pump, plastic pails, garbage bags, extra absorbent pad, drip pans will be placed on the side of the wall at the main office and the kitchen. Fire extinguishers are available throughout the camp facility.

Drill Spill Kits with a capacity of 25 L will contain the following:

- 10- Pads (17"x19"x2/8")
- 3 - Socks (3"x4')
- 1 - Pair of Gloves
- 1 - Disposal Bags
- 1 - Warning Sign
- 1 - Literature (Inventory List, MSDS, Instructions)

HAZARDOUS MATERIAL INVENTORY:

This following section lists for each hazardous substance present on the project area, health hazards, spill procedure and disposal procedures. For more detailed information, refer to the MSDS sheets.

DIESEL FUEL, JET B AND GASOLINE

DIESEL, JET-B AND GASOLINE ARE HIGHLY FLAMMABLE

General Precautions

Do not smoke

Will be easily ignited by heat, sparks or flames

Gasoline and Jet-B are more volatile than diesel

Explosion hazard indoors, in confined spaces and outdoors

Vapors may form explosive mixtures with air

Vapors may travel to source of ignition and flash back

Most vapors are heavier than air. They will spread along ground and collect in low or confined areas.

Keep pump or electrical equipment far away, be very careful with metallic tools that could sparks on rocks, wait for vapors to dissipate

Inhalation may cause central nervous effects

Aspiration into lungs may cause pneumonitis which can be fatal

Eye and skin irritation

Prolonged exposure has caused cancers in laboratory animals

Spill on Land

Build a containment berm, downslope, using, peat, moss, and soil material, bags filled with sand or rocks and place a plastic tarp at the foot of the berm to pool the spill. Spill can be pumped if in a large amount

Soak up spilled substance by using absorbent pads

Excavate the surface soil if necessary. If large excavation is needed, first contact regulatory agencies for approval.

Remove spill substance splashed on vegetation by applying a thin dusting of Spag-zorb or other ultra-dry absorbent.

Dispose hydrocarbons, absorbent pad, contaminated soil and cleaning material in an empty drum, seal it and label it.

On marshy zones, don't destroy vegetal cover, limit personnel and equipment. Remove pooled oil with absorbent pads and/or skimmer.

Spill on Water

Contain spill as close to release point as possible

On small spill, deploy hydrophobic absorbent pads

On larger spill and weather conditions permitting, use containment boom to limit fuel dispersion.

Use a skimmer, pump or hydrophobic absorbent pads to remove fuel inside the boom.

Dispose hydrocarbons, absorbent pad, contaminated soil and cleaning material in an empty drum, seal it and label it.

Spill on Rivers and Streams

Prevent entry into water, if possible, by building a berm or trench.
Intercept moving slicks in quiet areas using (absorbent) booms.
Do not use absorbent booms/pads in fast currents and turbulent water.

Spill on Ice and Snow

Build a containment berm of compacted snow around spill.
If hydrocarbons are pooling on ice, pump large amount or use hydrophobic absorbent pads.
Don't delay removing the spill as hydrocarbons could seep through cracks into the water.
Scrape ice, shovel all contaminated snow in plastic buckets with lids or in drums. Dispose absorbent pads and other contaminated equipment in separated containers. Label and seal the containers.

Spill Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods before disposing of contaminated material.

PROPANE:

EXTREMELY FLAMMABLE

General Precautions

Do not smoke
Cylinders may explode when heated
Cylinders may rocket if ruptured
Will be easily ignited by heat, sparks or flames
Explosion hazard indoors, in confined spaces and outdoors
Vapors may form explosive mixtures with air
Vapors may travel to source of ignition and flash back
Vapors from liquefied gas are initially heavier than air and spread along ground.
Contact with gas or liquefied gas may cause burns, severe injuries and/or frostbite
Keep pump or electrical equipment far away, be very careful with metallic tools that could sparks on rocks, wait for vapors to dissipate
Liquid may cause frostbites and blisters
Blurred vision if goes in the eyes
Narcotic asphyxiant
Dizziness, disorientation, excitation, headache, vomiting, unconsciousness if inhaled

Spill Procedure (on Land, Water, Ice and Snow)

Eliminate all source of ignition
Do not attempt to contain the propane release if not absolutely sure on what to do.
Do not touch or walk through spilled material
Stop leak if can be done without risk
If possible, turn container so that gas escapes rather than liquid.
Water spray can be used to knock down vapors but don't direct water at spill or source of leak

Prevent spreading of vapors in confined areas
If or when possible, confine spill with confinement berm. Throw absorbent pads into spill, retrieved them with gaffs or pitchforks.
Small fire can be extinguished with dry chemical or CO₂.
Dispose contaminated materials in a labeled drum.

Spill Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods for detective equipment that resulted in the release.

MOTOR OIL, HYDRAULIC OIL, AND TRANSMISSION FLUID

General Precautions

Avoid breathing mists, may cause lung irritation
On skin may cause mild irritation

Spill Action

Soak up with absorbent material
Disposed contaminated soil and material in sealed and labeled container
Small amount can be incinerated
Large amounts to be disposed as hazardous waste.

ANTIFREEZE

General Precautions

Respiratory irritation with prolonged exposure.
Kidney, liver and bladder problems reported in animals

Spill on Land

Soak up by using absorbent pads
Dispose antifreeze, absorbent pad, contaminated soil and cleaning material in an empty drum, seal it and label it.
On marshy zones, don't destroy vegetal cover, limit personnel and equipment. If possible remove pooled antifreeze with absorbent pads.

Spill on Rivers and Streams

Prevent entry into water, if possible, by building a berm or trench.

Spill on Ice and Snow

Build a containment berm of compacted snow around spill.
If pooling on ice, pump large amount or use absorbent pads.
Don't delay removing the spill as it can seep through cracks into the water.
Scrape ice, shovel all contaminated snow into plastic buckets with lids or in drums.

Dispose absorbent pads and other contaminated equipment in separated containers. Label and seal the containers.

Spill Disposal

Contact Federal and Territorial regulatory agencies to identify appropriate disposal methods before disposing of contaminated material.

BATTERY ACID

General Precautions

Fire and explosion hazard

Can be extinguished with dry chemical fire extinguisher.

Ventilate area

Remove combustible materials

Mist inhalation hazard when being charged or spilled

Acid burns to skin and eyes irritation

Spill Action

Neutralize with soda or lime

Dispose battery and neutralized contaminated material in a sealed and labeled container

Dispose as an hazardous waste

POLY DRILL DR-133

General Precautions

May cause skin and eye irritation

Spill Action

Soak up with absorbent pad

Dispose residue, contaminated soil and material in labeled containers. Solidify with sand.

Small amount can be incinerated, otherwise dispose as hazardous waste.

550-X POLYMER

General Precautions

Prolonged skin contact may cause irritation

Possible eye irritation

Ingestion may cause nausea, vomiting, cramps, diarrhea

Spill Action

Clean up spill with gloves. Scrape soil or surface and disposed in labeled containers

Dispose as hazardous waste

Spill Contingency Plan
IZOK and Hood Projects



