IZOK LAKE PROJECT

MARCH 10, 2011

2011
WATER BOARD ANNUAL REPORT
REPORTING ON 2010 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 polymetalic 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 2010 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 5 holes were drilled (see Table I). Land sump locations were established in natural depressions, but in some cases 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 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 2010 Izok Lake

Hole_ID	Easting	Northing	Elev.	Datum	Zone	Sump Easting	Sump Northing
HEN-444	417252.2	7279973.5	417.3	NAD83	12N	417363	7279983
HEN-445	417317	7280318	417.3	NAD83	12N	417383	7280281
HEN-446	416605	7280651	417.3	NAD83	12N	416339	7280506
HEN-447	417025.3	7280579.2	417.3	NAD83	12N	417090	7280746
IR10-01	411880	7281990	412	NAD83	12N		

Figure I : Location Map Izok Lake

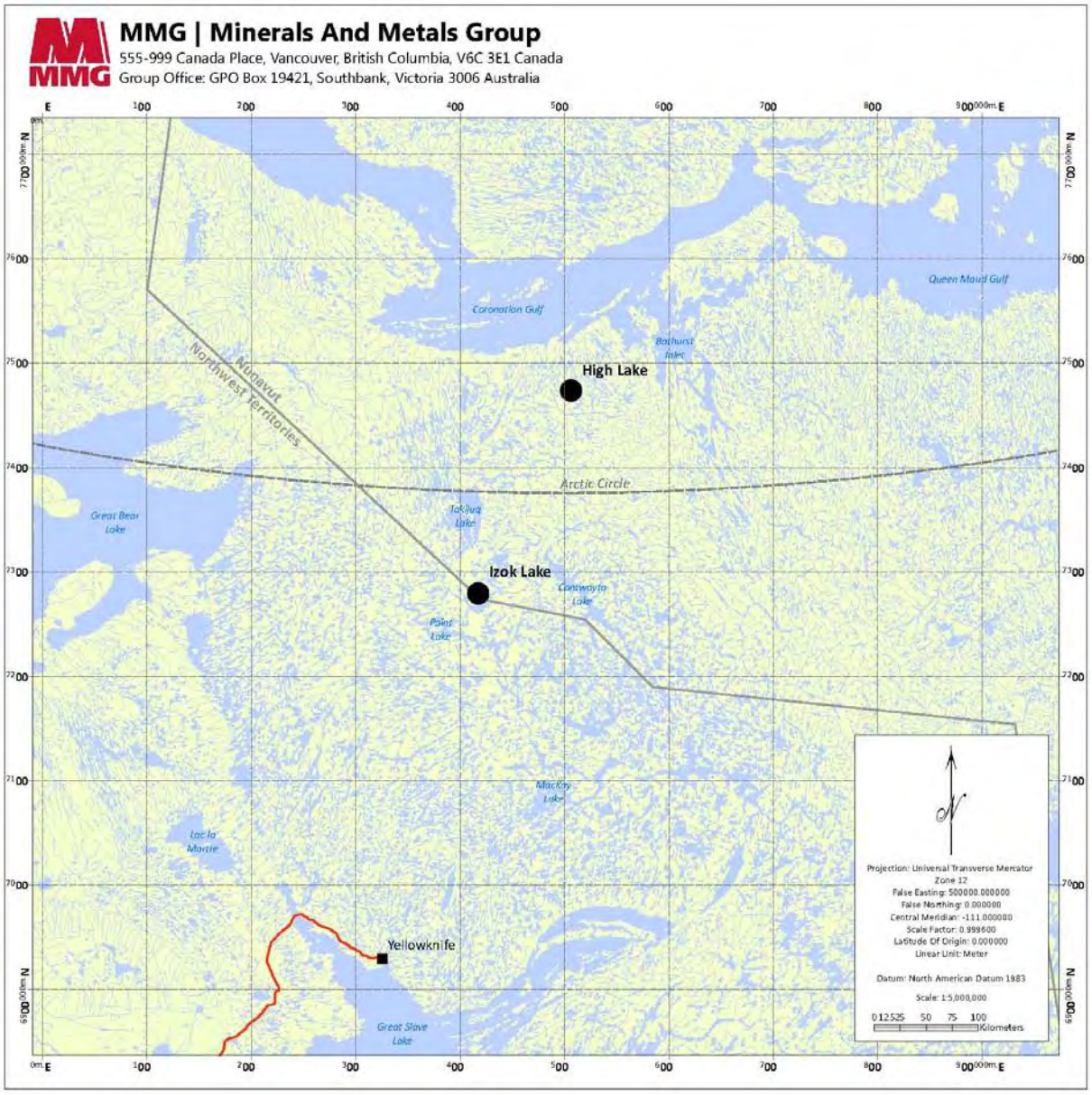
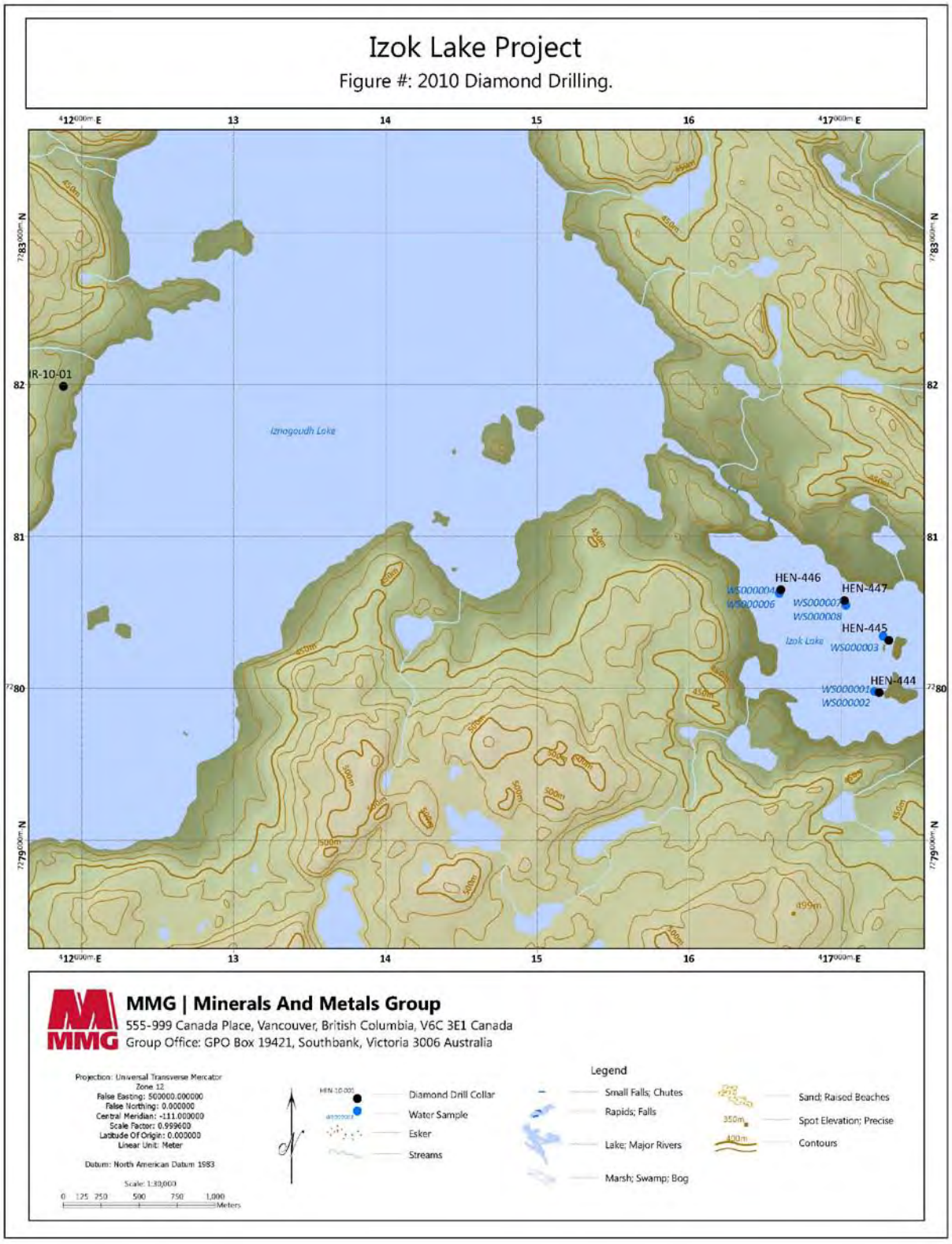


Figure II : Drill pad locations 2010 Izok Lake



This year, MMG is proposing geophysics and an exploratory drilling program in the vicinity of Izok Lake and on the Hood Property, located in Nunavut. These programs will begin in mid March 2011 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.

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 30, 2010 and concluded May 25, 2010, and consisted of only one drill. 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 2010 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 Appendix IV and V.

5 Reclamation Work

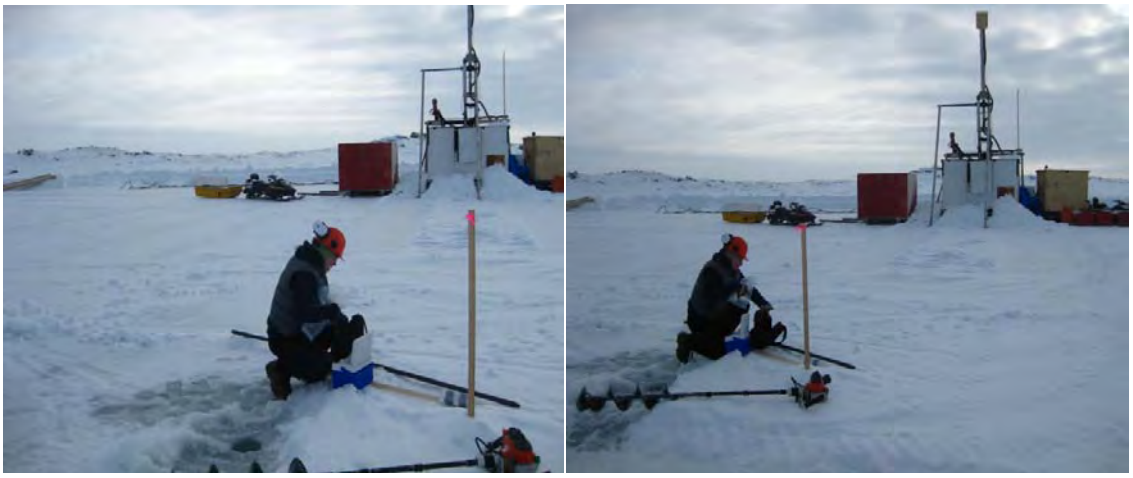
Reclamation work occurs at each diamond drilling site on an ongoing basis during the exploration program. Each site is returned to its natural state with as little disturbance as possible at the conclusion of each drill hole. Drilling sites located on frozen lake surfaces are scraped clean and any contaminated snow is deposited in a land based sump location or contained in drums. No reclamation work was carried out at the Ham Lake camp site during the reporting period.

6 Appendices

Table II : Water Sampling Locations

Sample_ID	UTM_East	UTM_North	UTM_Datum	UTM_Zone	CollectionDate
WS000001	417222	7279982	NAD83	12	28-Mar-10
WS000002	417222	7279982	NAD83	12	16-Apr-10
WS000003	417279	7280345	NAD83	12	16-Apr-10
WS000004	416595	7280627	NAD83	12	30-Apr-10
WS000005	417269	2780337	NAD83	12	30-Apr-10
WS000006	416595	7280630	NAD83	12	10-May-10
WS000007	417035	7280549	NAD83	12	9-May-10
WS000008	417035	7280549	NAD83	12	19-May-10

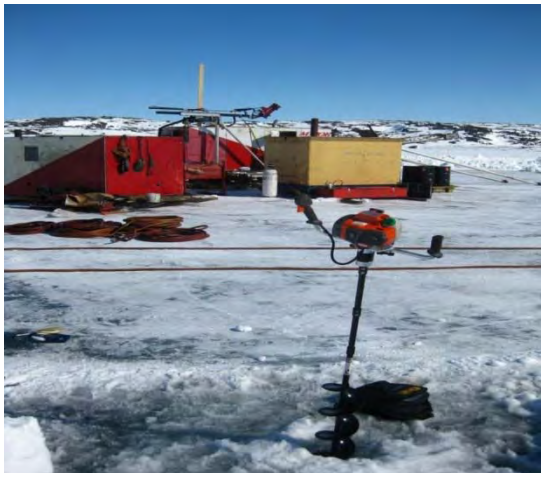
Appendix I: Water Sample Location Photos



WS000001

WS000003

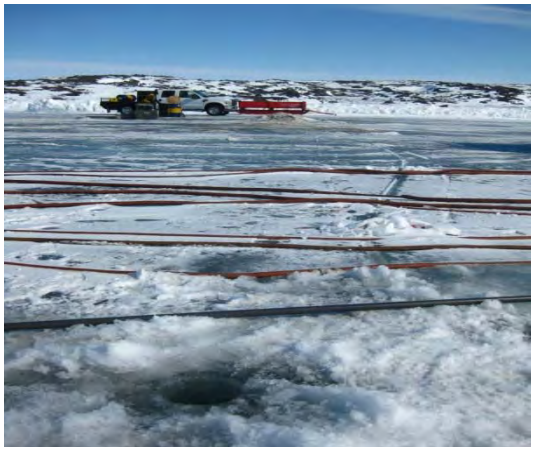
WS000004



WS000005

WS000006

WS000007



WS000008

Appendix II : Water Sampling Results

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Certificate of Analysis

MMG RESOURCES INC
ATTN: RON FENLON
200 - 1159 ALLOY DRIVE
THUNDER BAY ON P7B 6M8

Report Date: 06-APR-10 16:36 (MT)
Version: FINAL

Lab Work Order #: L873752 **Date Received:** 01-APR-10

Project P.O. #: 10-00433
Job Reference:
Legal Site Desc:
CofC Numbers: 08-011525
Other Information:

Comments:

Maureen Olinek
Senior Account Manager

ALS Canada Ltd.
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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L873752-1 WS000001							
Sampled By: CLIENT on 26-MAR-10 @ 09:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-APR-10	R1230707
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.029		0.010	mg/L		05-APR-10	R1230415
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		05-APR-10	R1230415
Arsenic (As)-Total	<0.00040		0.00040	mg/L		05-APR-10	R1230415
Barium (Ba)-Total	0.0036		0.0030	mg/L		05-APR-10	R1230415
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		05-APR-10	R1230415
Boron (B)-Total	<0.050		0.050	mg/L		05-APR-10	R1230415
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		05-APR-10	R1230415
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		05-APR-10	R1230415
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		05-APR-10	R1230415
Copper (Cu)-Total	0.0017		0.0010	mg/L		05-APR-10	R1230415
Lead (Pb)-Total	0.00012		0.00010	mg/L		05-APR-10	R1230415
Lithium (Li)-Total	<0.010		0.010	mg/L		05-APR-10	R1230415
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		05-APR-10	R1230415
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		05-APR-10	R1230415
Selenium (Se)-Total	<0.00040		0.00040	mg/L		05-APR-10	R1230415
Silver (Ag)-Total	<0.00010		0.00010	mg/L		05-APR-10	R1230415
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		05-APR-10	R1230415
Tin (Sn)-Total	<0.050		0.050	mg/L		05-APR-10	R1230415
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		05-APR-10	R1230415
Uranium (U)-Total	0.00011		0.00010	mg/L		05-APR-10	R1230415
Vanadium (V)-Total	<0.0010		0.0010	mg/L		05-APR-10	R1230415
Zinc (Zn)-Total	0.0070		0.0040	mg/L		05-APR-10	R1230415
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.97		0.50	mg/L		05-APR-10	R1228724
Iron (Fe)-Total	<0.010		0.010	mg/L		05-APR-10	R1228724
Magnesium (Mg)-Total	1.04		0.10	mg/L		05-APR-10	R1228724
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		05-APR-10	R1228724
Potassium (K)-Total	0.54		0.10	mg/L		05-APR-10	R1228724
Sodium (Na)-Total	1.0		1.0	mg/L		05-APR-10	R1228724
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		05-APR-10	R1228124
pH and Conductivity							
pH	6.99		0.10	pH		01-APR-10	R1225985
Conductivity (EC)	22.2		0.20	uS/cm		01-APR-10	R1225985

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

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Certificate of Analysis

MMG RESOURCES INC
ATTN: RON FENLON
200 - 1159 ALLOY DRIVE
THUNDER BAY ON P7B 6M8

Report Date: 26-APR-10 14:48 (MT)
Version: FINAL

Lab Work Order #: L879115 **Date Received:** 21-APR-10

Project P.O. #: 10-00433
Job Reference:
Legal Site Desc:
CofC Numbers: 08-011526
Other Information:

Comments:

Maureen Olinek
Senior Account Manager

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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L879115-1 WS000002							
Sampled By: CLIENT on 16-APR-10 @ 09:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		22-APR-10	R1240623
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.035		0.010	mg/L		22-APR-10	R1240708
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		22-APR-10	R1240708
Arsenic (As)-Total	0.00041		0.00040	mg/L		22-APR-10	R1240708
Barium (Ba)-Total	0.0040		0.0030	mg/L		22-APR-10	R1240708
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Boron (B)-Total	<0.050		0.050	mg/L		22-APR-10	R1240708
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		22-APR-10	R1240708
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		22-APR-10	R1240708
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		22-APR-10	R1240708
Copper (Cu)-Total	0.0020		0.0010	mg/L		22-APR-10	R1240708
Lead (Pb)-Total	0.00113		0.00010	mg/L		22-APR-10	R1240708
Lithium (Li)-Total	<0.010		0.010	mg/L		22-APR-10	R1240708
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		22-APR-10	R1240708
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		22-APR-10	R1240708
Selenium (Se)-Total	<0.00040		0.00040	mg/L		22-APR-10	R1240708
Silver (Ag)-Total	<0.00050	DLM	0.00050	mg/L		22-APR-10	R1240708
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		22-APR-10	R1240708
Tin (Sn)-Total	<0.050		0.050	mg/L		22-APR-10	R1240708
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Uranium (U)-Total	0.00011		0.00010	mg/L		22-APR-10	R1240708
Vanadium (V)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Zinc (Zn)-Total	0.0100	RRVAP	0.0040	mg/L		22-APR-10	R1240708
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.73		0.50	mg/L		23-APR-10	R1241464
Iron (Fe)-Total	0.023		0.010	mg/L		23-APR-10	R1241464
Magnesium (Mg)-Total	0.87		0.10	mg/L		23-APR-10	R1241464
Manganese (Mn)-Total	0.0034		0.0020	mg/L		23-APR-10	R1241464
Potassium (K)-Total	0.54		0.10	mg/L		23-APR-10	R1241464
Sodium (Na)-Total	<1.0		1.0	mg/L		23-APR-10	R1241464
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		22-APR-10	R1240491
pH and Conductivity							
pH	6.73		0.10	pH		21-APR-10	R1239492
Conductivity (EC)	21.7		0.20	uS/cm		21-APR-10	R1239492
L879115-2 WS000003							
Sampled By: CLIENT on 16-APR-10 @ 09:20							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		22-APR-10	R1240623
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.030		0.010	mg/L		22-APR-10	R1240708
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		22-APR-10	R1240708
Arsenic (As)-Total	<0.00040		0.00040	mg/L		22-APR-10	R1240708
Barium (Ba)-Total	0.0050		0.0030	mg/L		22-APR-10	R1240708
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Boron (B)-Total	<0.050		0.050	mg/L		22-APR-10	R1240708
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		22-APR-10	R1240708

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L879115-2 WS000003							
Sampled By: CLIENT on 16-APR-10 @ 09:20							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		22-APR-10	R1240708
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		22-APR-10	R1240708
Copper (Cu)-Total	0.0015		0.0010	mg/L		22-APR-10	R1240708
Lead (Pb)-Total	0.00010		0.00010	mg/L		22-APR-10	R1240708
Lithium (Li)-Total	<0.010		0.010	mg/L		22-APR-10	R1240708
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		22-APR-10	R1240708
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		22-APR-10	R1240708
Selenium (Se)-Total	<0.00040		0.00040	mg/L		22-APR-10	R1240708
Silver (Ag)-Total	<0.00050	DLM	0.00050	mg/L		22-APR-10	R1240708
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		22-APR-10	R1240708
Tin (Sn)-Total	<0.050		0.050	mg/L		22-APR-10	R1240708
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Uranium (U)-Total	<0.00010		0.00010	mg/L		22-APR-10	R1240708
Vanadium (V)-Total	<0.0010		0.0010	mg/L		22-APR-10	R1240708
Zinc (Zn)-Total	0.0108	RRV	0.0040	mg/L		22-APR-10	R1240708
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.71		0.50	mg/L		23-APR-10	R1241464
Iron (Fe)-Total	0.017		0.010	mg/L		23-APR-10	R1241464
Magnesium (Mg)-Total	0.86		0.10	mg/L		23-APR-10	R1241464
Manganese (Mn)-Total	0.0027		0.0020	mg/L		23-APR-10	R1241464
Potassium (K)-Total	0.51		0.10	mg/L		23-APR-10	R1241464
Sodium (Na)-Total	<1.0		1.0	mg/L		23-APR-10	R1241464
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		22-APR-10	R1240491
pH and Conductivity							
pH	6.64		0.10	pH		21-APR-10	R1239492
Conductivity (EC)	21.2		0.20	uS/cm		21-APR-10	R1239492

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

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Certificate of Analysis

MMG RESOURCES INC
ATTN: RON FENLON
200 - 1159 ALLOY DRIVE
THUNDER BAY ON P7B 6M8

Report Date: 11-MAY-10 10:35 (MT)
Version: FINAL

Lab Work Order #: **L883189** **Date Received:** **05-MAY-10**

Project P.O. #: 10-00433
Job Reference:
Legal Site Desc:
CofC Numbers: 08-011527
Other Information:

Comments:

Maureen Olinek
Senior Account Manager

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Part of the **ALS Laboratory Group**
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ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L883189-1 WS000004							
Sampled By: CLIENT on 30-APR-10 @ 11:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-MAY-10	R1249517
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.028		0.010	mg/L		08-MAY-10	R1250396
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		08-MAY-10	R1250396
Arsenic (As)-Total	0.00086		0.00040	mg/L		08-MAY-10	R1250396
Barium (Ba)-Total	0.0037		0.0030	mg/L		08-MAY-10	R1250396
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Boron (B)-Total	<0.050		0.050	mg/L		08-MAY-10	R1250396
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		08-MAY-10	R1250396
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		08-MAY-10	R1250396
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		08-MAY-10	R1250396
Copper (Cu)-Total	0.0018		0.0010	mg/L		08-MAY-10	R1250396
Lead (Pb)-Total	0.00036		0.00010	mg/L		08-MAY-10	R1250396
Lithium (Li)-Total	<0.010		0.010	mg/L		08-MAY-10	R1250396
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		08-MAY-10	R1250396
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		08-MAY-10	R1250396
Selenium (Se)-Total	0.00062		0.00040	mg/L		08-MAY-10	R1250396
Silver (Ag)-Total	0.00018		0.00010	mg/L		08-MAY-10	R1250396
Strontium (Sr)-Total	0.00615		0.00020	mg/L		08-MAY-10	R1250396
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		08-MAY-10	R1250396
Tin (Sn)-Total	<0.050		0.050	mg/L		08-MAY-10	R1250396
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Uranium (U)-Total	0.00010		0.00010	mg/L		08-MAY-10	R1250396
Vanadium (V)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Zinc (Zn)-Total	0.0198	RRVAP	0.0040	mg/L		08-MAY-10	R1250396
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.48		0.50	mg/L		06-MAY-10	R1249627
Iron (Fe)-Total	0.046		0.010	mg/L		06-MAY-10	R1249627
Magnesium (Mg)-Total	0.77		0.10	mg/L		06-MAY-10	R1249627
Manganese (Mn)-Total	0.0025		0.0020	mg/L		06-MAY-10	R1249627
Potassium (K)-Total	0.59		0.10	mg/L		06-MAY-10	R1249627
Sodium (Na)-Total	<1.0		1.0	mg/L		06-MAY-10	R1249627
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		06-MAY-10	R1249485
pH and Conductivity							
pH	6.64		0.10	pH		05-MAY-10	R1248583
Conductivity (EC)	18.2		0.20	uS/cm		05-MAY-10	R1248583
L883189-2 WS000005							
Sampled By: CLIENT on 30-APR-10 @ 12:00							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		06-MAY-10	R1249517
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.026		0.010	mg/L		08-MAY-10	R1250396
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		08-MAY-10	R1250396
Arsenic (As)-Total	0.00092		0.00040	mg/L		08-MAY-10	R1250396
Barium (Ba)-Total	0.0037		0.0030	mg/L		08-MAY-10	R1250396
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Boron (B)-Total	<0.050		0.050	mg/L		08-MAY-10	R1250396

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L883189-2 WS000005							
Sampled By: CLIENT on 30-APR-10 @ 12:00							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		08-MAY-10	R1250396
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		08-MAY-10	R1250396
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		08-MAY-10	R1250396
Copper (Cu)-Total	0.0014		0.0010	mg/L		08-MAY-10	R1250396
Lead (Pb)-Total	0.00022		0.00010	mg/L		08-MAY-10	R1250396
Lithium (Li)-Total	<0.010		0.010	mg/L		08-MAY-10	R1250396
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		08-MAY-10	R1250396
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		08-MAY-10	R1250396
Selenium (Se)-Total	0.00068		0.00040	mg/L		08-MAY-10	R1250396
Silver (Ag)-Total	0.00016		0.00010	mg/L		08-MAY-10	R1250396
Strontium (Sr)-Total	0.00676		0.00020	mg/L		08-MAY-10	R1250396
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		08-MAY-10	R1250396
Tin (Sn)-Total	<0.050		0.050	mg/L		08-MAY-10	R1250396
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Uranium (U)-Total	0.00010		0.00010	mg/L		08-MAY-10	R1250396
Vanadium (V)-Total	<0.0010		0.0010	mg/L		08-MAY-10	R1250396
Zinc (Zn)-Total	0.0077		0.0040	mg/L		08-MAY-10	R1250396
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.45		0.50	mg/L		06-MAY-10	R1249627
Iron (Fe)-Total	<0.010		0.010	mg/L		06-MAY-10	R1249627
Magnesium (Mg)-Total	0.79		0.10	mg/L		06-MAY-10	R1249627
Manganese (Mn)-Total	0.0023		0.0020	mg/L		06-MAY-10	R1249627
Potassium (K)-Total	0.52		0.10	mg/L		06-MAY-10	R1249627
Sodium (Na)-Total	<1.0		1.0	mg/L		06-MAY-10	R1249627
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		06-MAY-10	R1249485
pH and Conductivity							
pH	6.68		0.10	pH		05-MAY-10	R1248583
Conductivity (EC)	21.3		0.20	uS/cm		05-MAY-10	R1248583

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

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

Certificate of Analysis

MMG RESOURCES INC
ATTN: RON FENLON
200 - 1159 ALLOY DRIVE
THUNDER BAY ON P7B 6M8

Report Date: 20-MAY-10 10:06 (MT)
Version: FINAL

Lab Work Order #: L885983 **Date Received:** 13-MAY-10

Project P.O. #: 10-00433
Job Reference:
Legal Site Desc:
CofC Numbers: 08-011528
Other Information:

Comments:

Maureen Olinek
Senior Account Manager

ALS Canada Ltd.
Part of the **ALS Laboratory Group**
9936-67 Avenue, Edmonton, AB T6E 0P5
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A Campbell Brothers Limited Company

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L885983-1 WS000006							
Sampled By: CLIENT on 10-MAY-10 @ 11:25							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		17-MAY-10	R1255888
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.028		0.010	mg/L		18-MAY-10	R1256726
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		18-MAY-10	R1256726
Arsenic (As)-Total	0.00052		0.00040	mg/L		18-MAY-10	R1256726
Barium (Ba)-Total	0.0031		0.0030	mg/L		18-MAY-10	R1256726
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Boron (B)-Total	<0.050		0.050	mg/L		18-MAY-10	R1256726
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		18-MAY-10	R1256726
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		18-MAY-10	R1256726
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		18-MAY-10	R1256726
Copper (Cu)-Total	0.0025		0.0010	mg/L		18-MAY-10	R1256726
Lead (Pb)-Total	0.00018		0.00010	mg/L		18-MAY-10	R1256726
Lithium (Li)-Total	<0.010		0.010	mg/L		18-MAY-10	R1256726
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		18-MAY-10	R1256726
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		18-MAY-10	R1256726
Selenium (Se)-Total	<0.00040		0.00040	mg/L		18-MAY-10	R1256726
Silver (Ag)-Total	<0.00050	DLM	0.00050	mg/L		18-MAY-10	R1256726
Strontium (Sr)-Total	0.00705		0.00020	mg/L		18-MAY-10	R1256726
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		18-MAY-10	R1256726
Tin (Sn)-Total	<0.050		0.050	mg/L		18-MAY-10	R1256726
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Uranium (U)-Total	<0.00010		0.00010	mg/L		18-MAY-10	R1256726
Vanadium (V)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Zinc (Zn)-Total	0.0156		0.0040	mg/L		18-MAY-10	R1256726
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.53		0.50	mg/L		15-MAY-10	R1255052
Iron (Fe)-Total	0.075		0.010	mg/L		15-MAY-10	R1255052
Magnesium (Mg)-Total	0.80		0.10	mg/L		15-MAY-10	R1255052
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		15-MAY-10	R1255052
Potassium (K)-Total	0.63		0.10	mg/L		15-MAY-10	R1255052
Sodium (Na)-Total	<1.0		1.0	mg/L		15-MAY-10	R1255052
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		14-MAY-10	R1254469
pH and Conductivity							
pH	6.73		0.10	pH		13-MAY-10	R1253723
Conductivity (EC)	18.8		0.20	uS/cm		13-MAY-10	R1253723
L885983-2 WS000007							
Sampled By: CLIENT on 09-MAY-10 @ 20:30							
Matrix: WATER							
Total Metals - CCME							
Mercury (Hg) - Total							
Mercury (Hg)-Total	<0.00010		0.00010	mg/L		17-MAY-10	R1255888
Total Metals in Water by ICPMS (Low)							
Aluminum (Al)-Total	0.032		0.010	mg/L		18-MAY-10	R1256726
Antimony (Sb)-Total	<0.00040		0.00040	mg/L		18-MAY-10	R1256726
Arsenic (As)-Total	0.00048		0.00040	mg/L		18-MAY-10	R1256726
Barium (Ba)-Total	0.0033		0.0030	mg/L		18-MAY-10	R1256726
Beryllium (Be)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Boron (B)-Total	<0.050		0.050	mg/L		18-MAY-10	R1256726

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

ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L885983-2 WS000007							
Sampled By: CLIENT on 09-MAY-10 @ 20:30							
Matrix: WATER							
Total Metals in Water by ICPMS (Low)							
Cadmium (Cd)-Total	<0.000050		0.000050	mg/L		18-MAY-10	R1256726
Chromium (Cr)-Total	<0.0050		0.0050	mg/L		18-MAY-10	R1256726
Cobalt (Co)-Total	<0.0020		0.0020	mg/L		18-MAY-10	R1256726
Copper (Cu)-Total	0.0017		0.0010	mg/L		18-MAY-10	R1256726
Lead (Pb)-Total	0.00110		0.00010	mg/L		18-MAY-10	R1256726
Lithium (Li)-Total	<0.010		0.010	mg/L		18-MAY-10	R1256726
Molybdenum (Mo)-Total	<0.0050		0.0050	mg/L		18-MAY-10	R1256726
Nickel (Ni)-Total	<0.0020		0.0020	mg/L		18-MAY-10	R1256726
Selenium (Se)-Total	<0.00040		0.00040	mg/L		18-MAY-10	R1256726
Silver (Ag)-Total	<0.00050	DLM	0.00050	mg/L		18-MAY-10	R1256726
Strontium (Sr)-Total	0.00731		0.00020	mg/L		18-MAY-10	R1256726
Thallium (Tl)-Total	<0.00010		0.00010	mg/L		18-MAY-10	R1256726
Tin (Sn)-Total	<0.050		0.050	mg/L		18-MAY-10	R1256726
Titanium (Ti)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Uranium (U)-Total	<0.00010		0.00010	mg/L		18-MAY-10	R1256726
Vanadium (V)-Total	<0.0010		0.0010	mg/L		18-MAY-10	R1256726
Zinc (Zn)-Total	0.0087		0.0040	mg/L		18-MAY-10	R1256726
Total Metals in Water by ICPOES (Low)							
Calcium (Ca)-Total	1.53		0.50	mg/L		14-MAY-10	R1254736
Iron (Fe)-Total	0.014		0.010	mg/L		14-MAY-10	R1254736
Magnesium (Mg)-Total	0.71		0.10	mg/L		14-MAY-10	R1254736
Manganese (Mn)-Total	<0.0020		0.0020	mg/L		14-MAY-10	R1254736
Potassium (K)-Total	0.45		0.10	mg/L		14-MAY-10	R1254736
Sodium (Na)-Total	<1.0		1.0	mg/L		14-MAY-10	R1254736
Miscellaneous Parameters							
Total Suspended Solids	<3.0		3.0	mg/L		14-MAY-10	R1254469
pH and Conductivity							
pH	6.81		0.10	pH		13-MAY-10	R1253723
Conductivity (EC)	18.5		0.20	uS/cm		13-MAY-10	R1253723

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

Appendix III : Water Usage 2010

March - April

Date	Water Volume (L)	Date	Water Volume (L)
March 12,2010	111	April 1, 2010	27990
March 13,2010	961	April 2, 2010	30840
March 14,2010	1759	April 3, 2010	32498
March 15,2010	3052	April 4, 2010	35834
March 16,2010	3824	April 5, 2010	37820
March 17,2010	4883	April 6, 2010	40655
March 18,2010	5069	April 7, 2010	42647
March 19,2010	7540	April 8, 2010	44596
March 20,2010	9003	April 9, 2010	45959
March 21,2010	10134	April 10, 2010	47847
March 22,2010	12410	April 11, 2010	49987
March 23,2010	14239	April 12, 2010	52106
March 24,2010	15709	April 13, 2010	54076
March 25,2010	17159	April 14, 2010	55515
March 26,2010	18787	April 15, 2010	58365
March 27,2010	20619	April 16, 2010	59394
March 28,2010	22501	April 17, 2010	60661
March 29,2010	24547	April 18, 2010	62246
March 30,2010	25920	April 19, 2010	63973
		April 20, 2010	66834
		April 21, 2010	67947
		April 22, 2010	69358
		April 23, 2010	70888
		April 24, 2010	72460
		April 25, 2010	75630
		April 26, 2010	76936
		April 27, 2010	78822
		April 28, 2010	80791
		April 29, 2010	82659
		April 30, 2010	85231

Water Usage : May - June

Date	Water Volume (L)	Date	Water Volume (L)
May 1,2010	88020	June 1, 2010	158487
May 2,2010	90265	June 2, 2010	160194
May 3,2010	92661	June 3, 2010	161904
May 4,2010	95662	June 4, 2010	164140
May 5,2010	98013	June 5, 2010	165782
May 6,2010	100140	June 6, 2010	167782
May 7,2010	102457	June 7, 2010	169414
May 8,2010	104774	June 8, 2010	173018
May 9,2010	107015	June 9, 2010	174601
May 10,2010	109750	June 10, 2010	175150
May 11,2010	112350	June 11, 2010	176101
May 12,2010	114927	June 12, 2010	177202
May 13,2010	117612	June 13, 2010	180254
May 14,2010	120171	June 14, 2010	182166
May 15,2010	122282	June 15, 2010	184396
May 16,2010	124783	June 16, 2010	185890
May 17,2010	127585	June 17, 2010	187138
May 18,2010	130675	June 18, 2010	188583
May 19,2010	133133	June 19, 2010	190086
May 20,2010	135013	June 20, 2010	191876
May 21,2010	136819	June 21, 2010	193707
May 22,2010	139404	June 22, 2010	195742
May 23,2010	140984	June 23, 2010	197285
May 24,2010	143574	June 24, 2010	198681
May 25,2010	145368	June 25, 2010	200093
May 26,2010	147537	June 26, 2010	202393
May 27,2010	149086	June 27, 2010	203853
May 28,2010	152656	June 28, 2010	206260
May 29,2010	155210	June 29, 2010	208450
May 30,2010	156100	June 30, 2010	209819
May 31,2010	157646		

Water Usage : July - August

Date	Water Volume (L)	Date	Water Volume (L)
7/1/2010	211639	8/1/2010	32498
7/2/2010	212988	8/2/2010	34455
7/3/2010	214116	8/3/2010	36200
7/4/2010	215683	8/4/2010	37686
7/5/2010	217288	8/5/2010	40245
7/6/2010	219266	8/6/2010	41360
7/7/2010	220408	8/7/2010	42816
7/8/2010	221808	8/8/2010	45795
7/9/2010	223057	8/9/2010	48072
7/10/2010	224798	8/10/2010	49881
7/11/2010	226184	8/11/2010	51136
7/12/2010	227814	8/12/2010	52969
7/13/2010	590*	8/13/2010	54161
7/14/2010	2023	8/14/2010	56353
7/15/2010	4118	8/15/2010	57464
7/16/2010	4890	8/16/2010	58698
7/17/2010	6748	8/17/2010	60591
7/18/2010	8181	8/18/2010	61613
7/19/2010	9310	8/19/2010	63502
7/20/2010	11154	8/20/2010	64991
7/21/2010	12364	8/21/2010	66104
7/22/2010	13928	8/22/2010	67483
7/23/2010	15671	8/23/2010	69217
7/24/2010	18602	8/24/2010	70658
7/25/2010	20639	8/25/2010	72146
7/26/2010	23094	8/26/2010	73824
7/27/2010	25505	8/27/2010	75469
7/28/2010	26472	8/28/2010	76769
7/29/2010	28564	8/29/2010	
7/30/2010	30088	8/30/2010	
7/31/2010	31410	8/31/2010	

* On the 13th of July the water meter was re-set.

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 for the season to date.

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

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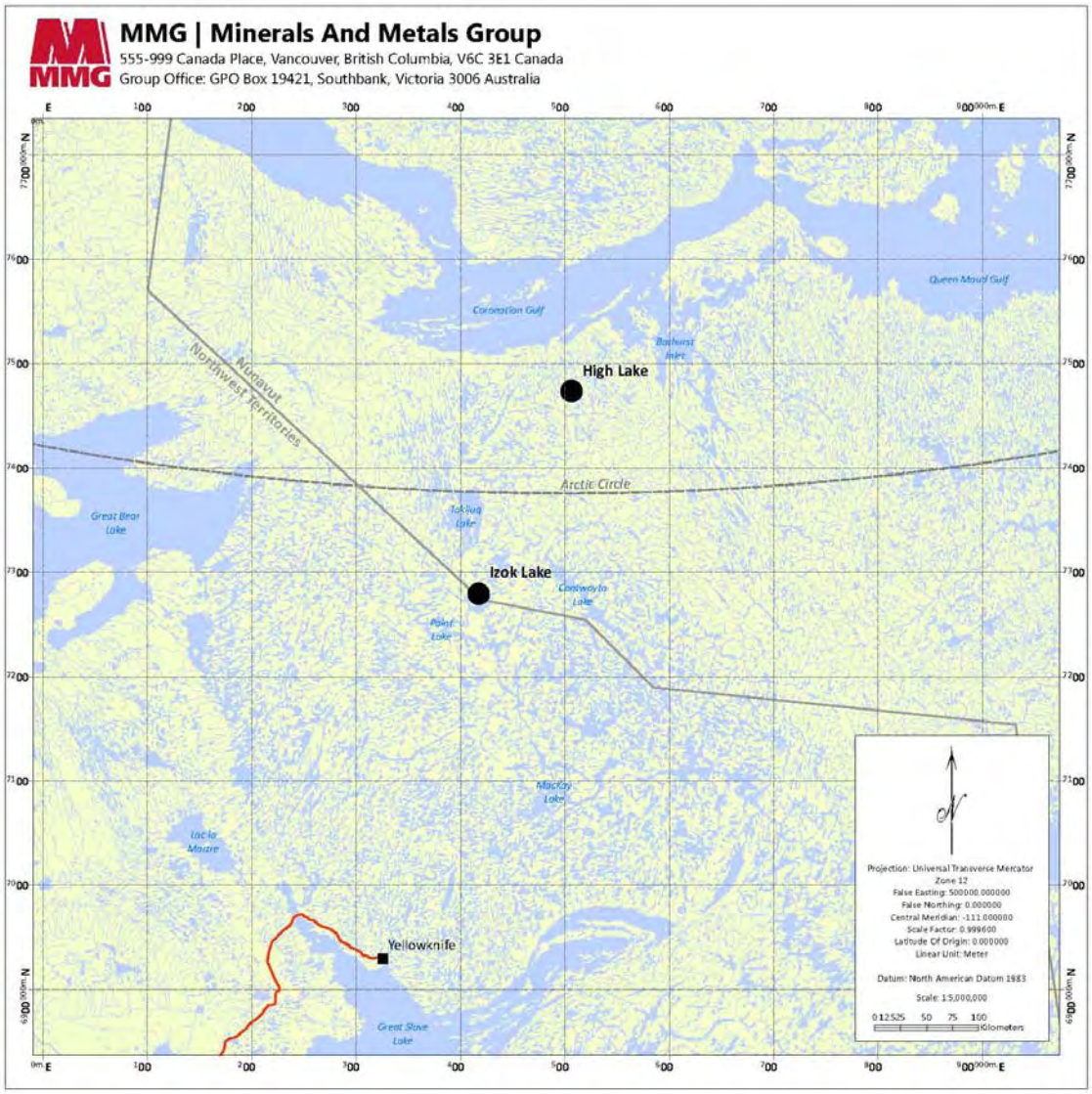

MMG | Minerals And Metals Group
555-999 Canada Place, Vancouver, British Columbia, V6C 3E1 Canada
Group Office: GPO Box 19421, Southbank, Victoria 3006 Australia
High Lake
Izok Lake
Yellowknife
Coronation Gulf
Queen Maud Gulf
Bathurst Inlet
Nunavut
Northwest Territories
Arctic Circle
Great Bear Lake
Point Lake
Contwoyto Lake
Mackay Lake
Lac la Martre
Great Slave Lake
Projection: Universal Transverse Mercator
Zone 12
False Easting: 500000.000000
False Northing: 0.000000
Central Meridian: -111.000000
Scale Factor: 0.999600
Latitude Of Origin: 0.000000
Linear Unit: Meter
Datum: North American Datum 1983
Scale: 1:5,000,000
0 12.525 50 75 100
Kilometers

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).

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.

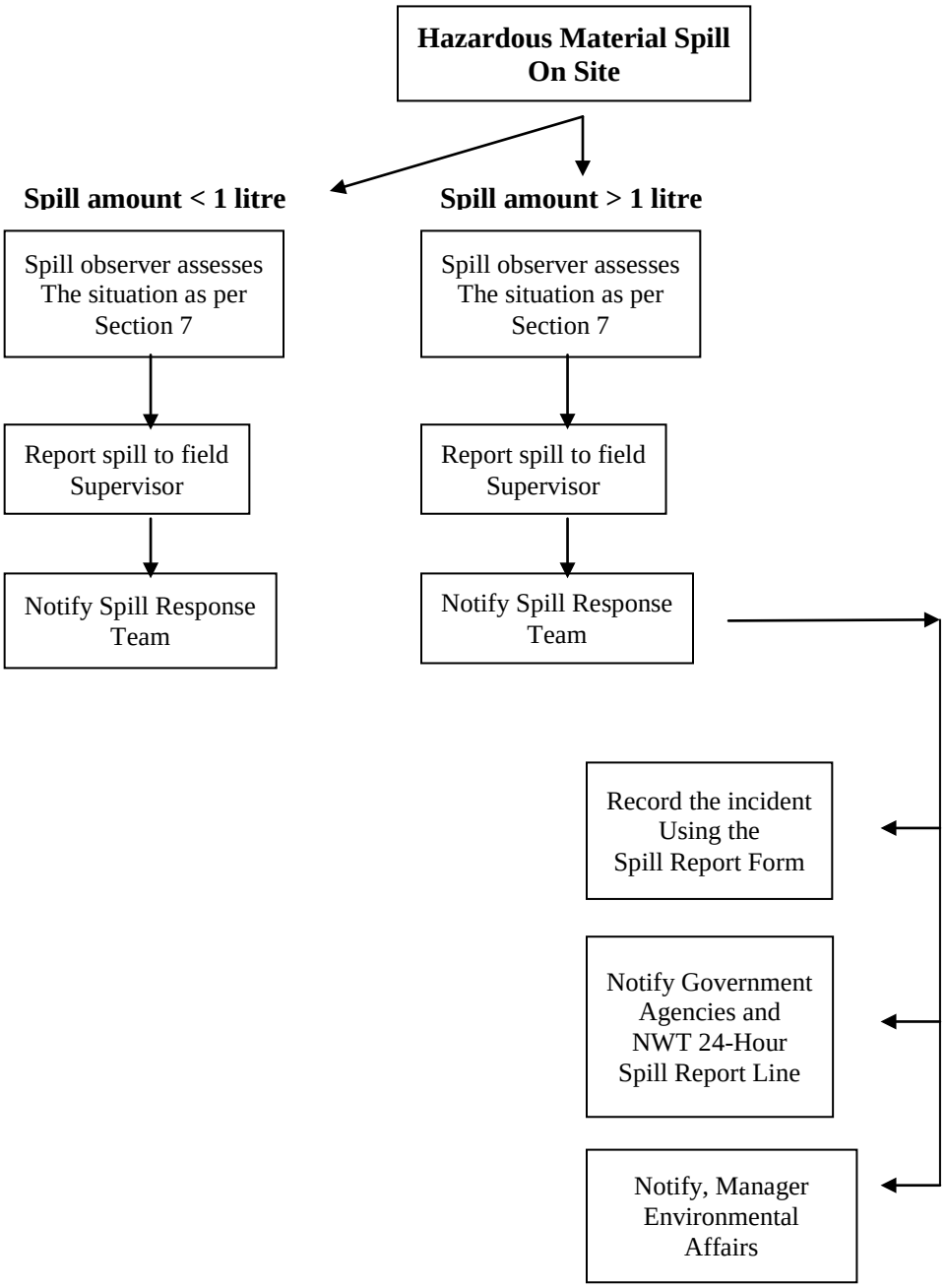
CONTACTS

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

Nunavut Contacts		
Exploration Manager	Ian Neill	778-373-5603
Camp Manager	Randy Oinenon	778-372-2674
Project Manager	Greg Duso	778-372-2679
Operations Manager	Ted Muraro	778-373-5589
MMG Head Office	Martin McFarlane	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