



Alexco Keno Hill Mining, Bellekeno Minesite

Spill Report Tracking

Spill Report Number	Substance Reported	Date of Spill
2011-001	DEISEL, NON-REPORTABLE	MAY, 20, 2011
2012-001	OIL, NON-REPORTABLE	JAN 16, 2012
2012-002	DEISEL, NON-REP.	FEB 2, 2012
2012-003	PROPANE, NR.	APRIL 29, 2012
2012-004	OIL	JULY 08, 2012
2012-005	DRILL POLYMER	SEPT 08, 2012
2012-006	OIL	OCT 20, 2012



Alexco Keno Hill Mining, Bellekeno Minesite

Spill Report Form

1	DATE OF SPILL: <i>JAN 16/2012.</i>	TIME OF SPILL: <i>8:00 AM.</i>	SPILL REPORT #: <i>2012-001</i>
2	LOCATION OF SPILL: <i>Along side of The Generator Scoop.</i>	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.): <i>-40C, no wind. - snow & ice on the ground.</i>	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): <i>None</i>		
4	TYPE OF PRODUCT SPILLED: OIL (<input checked="" type="checkbox"/>) GASOLINE () DIESEL () OTHER () _____ QUANTITY RELEASED (IN LITRES): <i>10-15 LITRES.</i>		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) <i>BROKEN STEERING cylinder on ScoopTEAM.</i> Incident Report # _____ (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) <i>Snow, ice, ZORBALL WAS PLACED ON THE SPILL.</i>		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <i>ZORBALL HAS BEEN PLACED ON THE SPILL, IT WILL be removed and PLACED IN A CONTAINER FOR DISPOSAL. THE ICE & SNOW CONTAINING THE OIL WILL ALSO BE REMOVED AND PLACED IN A CONTAINER.</i>		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW (<input checked="" type="checkbox"/>) MEDIUM () HIGH () <i>LOW RISK AS IT IS NOT NEAR ANY WATER BODY & THE GROUND IS NOW FROZEN.</i>	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS): <i>NONE</i>	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <i>AS PER SECTION 7</i>	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES <i>NONE, AS IT IS SOMEWHAT IMPOSSIBLE TO PREDICT WHEN A CYLINDER WILL FAIL.</i>	
12	COMPANY / CONTRACTOR INVOLVED: <i>ALEXCO / PROCON</i>	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: <i>KEV FEORAK</i>	DEPARTMENT SUPERVISOR INVOLVED <i>BOYDE W. GUTRELL</i>
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO (<input checked="" type="checkbox"/>) If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
15	HAVE ADDITIONAL LICENCE / PERMIT REPORTING REQUIREMENTS BEEN TRIGGERED BY THIS SPILL? (E.G., MLU LQ00240, WUL QZ09-092, QML-0009) YES () NO (<input checked="" type="checkbox"/>) IF YES, NAME LICENCE / PERMIT _____	



ALEXCO

16	INTERNAL REPORTING SEQUENCE		
	FIRST OBSERVER:		
	<u>Howard Young</u>	<u>PROCON</u>	<u>MINE / SHIFT BOSS</u>
	NAME	COMPANY	Department/Position
	REPORTED TO:		
	<u>KEW FEOLK</u>	<u>ALEXCO</u>	<u>DISTRICT DEV. / PROJECT MANAGER</u>
NAME	COMPANY	Department/Position	
REPORTED TO ENVIRONMENTAL DEPARTMENT:			
<u>LAURESS + BEUWOOD</u>	<u>KEW FEOLK</u>	<u>JAN 16 / 2012</u>	
TO WHO	BY WHOM	DATE/TIME	
REPORTED TO AKHM MANAGEMENT:			
TO WHO	BY WHOM	DATE/TIME	
17	EXTERNAL REPORTING SEQUENCE		
	REPORTED TO 24-HOUR YUKON SPILL HOTLINE (867) 536-2912:		
	TO WHO	BY WHOM	DATE/TIME
	DETAILED WRITTEN REPORT TO YWB, EMR, ENVIRONMENT CANADA, AND NND (REQUIRED WITHIN 10 DAYS OF SPILL):		
	DATE SUBMITTED	BY WHOM	

NOTE: If needed, contact CANUTEC (national advisory centre offering advice on dangerous goods emergencies) at (613) 996-6666 or (613) 992-4624



Table 1.0 Reportable spill quantities

TDG Class	Substance for 24-Hour Spill Line	Typical Products on Site	Immediately Reportable Quantities
1	Explosives	ANFO	Any amount spilled outside of blast pattern
2.3 2.3 2.4 6.2 7.0 None	Toxic gas (compressed/non-compressed) Poisonous Gases Corrosive gas (compressed/non-compressed) Infectious substances Radioactive Unknown substance		Any amount
2.3	Non-poisonous Gases		>100 Litres
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Propane Acetylene	Any amount of gas from containers with a capacity >100 Litres
3.1 3.2 3.3	Flammable liquids	Diesel Gasoline Glycol Hydraulic &/ Engine Oil	>200 Litres
4.1 4.2 4.3	Flammable Solids Spontaneously combustible solids Water reactant (dangerous when wet)		>25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	Sodium Hydroxide Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate	>50 kg or 50 Litres
5.2 9.2	Organic Peroxides Environmentally hazardous		>1 Litre or 1 kg
6.1 8.0 9.3	Poisonous substances Corrosive substances Dangerous wastes (waste oil)	Hydrochloric / Muriatic Waste Oil	>5 Litres or 5 kg
9.1	PCB Mixtures of 5 or more ppm	Transformer oil	>0.5 Litre or 0.5 kg
9.1	Miscellaneous dangerous goods		>50 kg
None	Other contaminants (eg crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)		>100 Litres or 100 kg
None	Sour natural gas (eg contains H2S) Sweet natural gas		Uncontrolled release or sustained flow of >10 min



Alexco Keno Hill Mining, Bellekeno Minesite

Spill Report Form

1	DATE OF SPILL: <u>FEB 02, 2012</u>	TIME OF SPILL: <u>13:00</u>	SPILL REPORT #: <u>2012-002</u>
2	LOCATION OF SPILL: <u>OUT SIDE COVERED DOOR IN BASEMENT ADMIN (EAST SIDE)</u>	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.): <u>WINTER/SNOW</u>	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): <u>FUMES</u>		
4	TYPE OF PRODUCT SPILLED: OIL () GASOLINE () DIESEL (<input checked="" type="checkbox"/>) OTHER () _____ QUANTITY RELEASED (IN LITRES): <u>25L</u>		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) <u>DIESEL^{TANK} WAS FILLED ON VERY COLD DAY (-35°C) AND WHEN TEMP ↑, DIESEL EXPANDED AND SLIGHTLY OVER-FILLED TANK</u> Incident Report # _____ (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) <u>TANK WAS ON CEMENT PAD, NATURAL SNOW BERM BESIDE HELPED CONTAIN SPILL</u>		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <u>SPILL PADS PLACED, CONTAMINATE SNOW REMOVED.</u>		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW <input checked="" type="checkbox"/> MEDIUM () HIGH ()	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS): NONE	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: SPILL PADS REMOVED / PLACED IN BARRELS FOR DISPOSAL	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES DO NOT FULLY FILL DIESEL TANKS IN WINTER TO ALLOW SPACE FOR EXPANSION	
12	COMPANY / CONTRACTOR INVOLVED: AKHM	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: DOVE HILUETE	DEPARTMENT SUPERVISOR INVOLVED DH
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO <input checked="" type="checkbox"/> If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
15	HAVE ADDITIONAL LICENCE / PERMIT REPORTING REQUIREMENTS BEEN TRIGGERED BY THIS SPILL? (E.G., MLU LQ00240, WUL QZ09-092, QML-0009) YES () NO <input checked="" type="checkbox"/> IF YES, NAME LICENCE / PERMIT _____	



16	<p>INTERNAL REPORTING SEQUENCE</p> <p>FIRST OBSERVER:</p> <p><u>ROB SCHNEIDER</u> <u>ACCESS</u> <u>C+M SUPERVISOR</u></p> <hr/> <p>NAME COMPANY Department/Position</p> <p>REPORTED TO:</p> <p><u>VANESSA BENWOOD</u> <u>AKHM</u> <u>ENVIRONMENT</u></p> <hr/> <p>NAME COMPANY Department/Position</p> <p>REPORTED TO ENVIRONMENTAL DEPARTMENT:</p> <hr/> <p>TO WHO BY WHOM DATE/TIME</p> <p>REPORTED TO AKHM MANAGEMENT:</p> <hr/> <p>TO WHO BY WHOM DATE/TIME</p>
17	<p>EXTERNAL REPORTING SEQUENCE</p> <p>REPORTED TO 24-HOUR YUKON SPILL HOTLINE (867) 536-2912:</p> <hr/> <p>TO WHO BY WHOM DATE/TIME</p> <p>DETAILED WRITTEN REPORT TO YWB, EMR, ENVIRONMENT CANADA, AND NND (REQUIRED WITHIN 10 DAYS OF SPILL):</p> <hr/> <p>DATE SUBMITTED BY WHOM</p>

NOTE: If needed, contact CANUTEC (national advisory centre offering advice on dangerous goods emergencies) at (613) 996-6666 or (613) 992-4624

Table 1.0 Reportable spill quantities

TDG Class	Substance for 24-Hour Spill Line	Typical Products on Site	Immediately Reportable Quantities
1	Explosives	ANFO	Any amount spilled outside of blast pattern
2.3 2.3 2.4 6.2 7.0 None	Toxic gas (compressed/non-compressed) Poisonous Gases Corrosive gas (compressed/non-compressed) Infectious substances Radioactive Unknown substance		Any amount
2.3	Non-poisonous Gases		>100 Litres
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Propane Acetylene	Any amount of gas from containers with a capacity >100 Litres
3.1 3.2 3.3	Flammable liquids	Diesel Gasoline Glycol Hydraulic &/ Engine Oil	>200 Litres
4.1 4.2 4.3	Flammable Solids Spontaneously combustible solids Water reactant (dangerous when wet)		>25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	Sodium Hydroxide Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate	>50 kg or 50 Litres
5.2 9.2	Organic Peroxides Environmentally hazardous		>1 Litre or 1 kg
6.1 8.0 9.3	Poisonous substances Corrosive substances Dangerous wastes (waste oil)	Hydrochloric / Muriatic Waste Oil	>5 Litres or 5 kg
9.1	PCB Mixtures of 5 or more ppm	Transformer oil	>0.5 Litre or 0.5 kg
9.1	Miscellaneous dangerous goods		>50 kg
None	Other contaminants (eg crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)		>100 Litres or 100 kg
None	Sour natural gas (eg contains H ₂ S) Sweet natural gas		Uncontrolled release or sustained flow of >10 min



Alexco Keno Hill Mining, Bellekeno Minesite

Spill Report Form

1	DATE OF SPILL: <i>July 08/2012</i>	TIME OF SPILL: <i>8:00AM</i>	SPILL REPORT #: <i>2012-004</i>
2	LOCATION OF SPILL: <i>- beside fuel tank @ Bellekeno</i> <i>↳ broken down scoop</i>	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.):	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): <i>—</i>		
4	TYPE OF PRODUCT SPILLED: OIL <input checked="" type="checkbox"/> GASOLINE () DIESEL () OTHER () _____ QUANTITY RELEASED (IN LITRES): <i>1L</i>		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) <i>MECHANICAL REPAIR ATTEMPTS</i> Incident Report # _____ (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) <i>ON ROAD - NONE</i>		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <i>used / add spill pads to area of leak</i>		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW <input checked="" type="checkbox"/> MEDIUM () HIGH ()	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS):	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: MORE PAPER WORK	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES	
12	COMPANY / CONTRACTOR INVOLVED: PROCON	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: SCOTT SMITH TOM FROD WIS	DEPARTMENT SUPERVISOR INVOLVED
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO <input checked="" type="checkbox"/> If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
15	HAVE ADDITIONAL LICENCE / PERMIT REPORTING REQUIREMENTS BEEN TRIGGERED BY THIS SPILL? (E.G., MLU LQ00240, WUL QZ09-092, QML-0009) YES () NO () IF YES, NAME LICENCE / PERMIT _____	



16	<p>INTERNAL REPORTING SEQUENCE</p> <p>FIRST OBSERVER:</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">NAME</td> <td style="width: 33%;">COMPANY</td> <td style="width: 34%;">Department/Position</td> </tr> </table> <p>REPORTED TO:</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">NAME</td> <td style="width: 33%;">COMPANY</td> <td style="width: 34%;">Department/Position</td> </tr> </table> <p>REPORTED TO ENVIRONMENTAL DEPARTMENT:</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">TO WHO</td> <td style="width: 33%;">BY WHOM</td> <td style="width: 34%;">DATE/TIME</td> </tr> </table> <p>REPORTED TO AKHM MANAGEMENT:</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">TO WHO</td> <td style="width: 33%;">BY WHOM</td> <td style="width: 34%;">DATE/TIME</td> </tr> </table>	NAME	COMPANY	Department/Position	NAME	COMPANY	Department/Position	TO WHO	BY WHOM	DATE/TIME	TO WHO	BY WHOM	DATE/TIME
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17	<p>EXTERNAL REPORTING SEQUENCE</p> <p>REPORTED TO 24-HOUR YUKON SPILL HOTLINE (867) 536-2912:</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">TO WHO</td> <td style="width: 33%;">BY WHOM</td> <td style="width: 34%;">DATE/TIME</td> </tr> </table> <p>DETAILED WRITTEN REPORT TO YWB, EMR, ENVIRONMENT CANADA, AND NND (REQUIRED WITHIN 10 DAYS OF SPILL):</p> <hr/> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DATE SUBMITTED</td> <td style="width: 50%;">BY WHOM</td> </tr> </table>	TO WHO	BY WHOM	DATE/TIME	DATE SUBMITTED	BY WHOM							
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NOTE: If needed, contact CANUTEC (national advisory centre offering advice on dangerous goods emergencies) at (613) 996-6666 or (613) 992-4624

Table 1.0 Reportable spill quantities

TDG Class	Substance for 24-Hour Spill Line	Typical Products on Site	Immediately Reportable Quantities
1	Explosives	ANFO	Any amount spilled outside of blast pattern
2.3 2.3 2.4 6.2 7.0 None	Toxic gas (compressed/non-compressed) Poisonous Gases Corrosive gas (compressed/non-compressed) Infectious substances Radioactive Unknown substance		Any amount
2.3	Non-poisonous Gases		>100 Litres
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Propane Acetylene	Any amount of gas from containers with a capacity >100 Litres
3.1 3.2 3.3	Flammable liquids	Diesel Gasoline Glycol Hydraulic &/ Engine Oil	>200 Litres
4.1 4.2 4.3	Flammable Solids Spontaneously combustible solids Water reactant (dangerous when wet)		>25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	Sodium Hydroxide Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate	>50 kg or 50 Litres
5.2 9.2	Organic Peroxides Environmentally hazardous		>1 Litre or 1 kg
6.1 8.0 9.3	Poisonous substances Corrosive substances Dangerous wastes (waste oil)	Hydrochloric / Muriatic Waste Oil	>5 Litres or 5 kg
9.1	PCB Mixtures of 5 or more ppm	Transformer oil	>0.5 Litre or 0.5 kg
9.1	Miscellaneous dangerous goods		>50 kg
None	Other contaminants (eg crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)		>100 Litres or 100 kg
None	Sour natural gas (eg contains H ₂ S) Sweet natural gas		Uncontrolled release or sustained flow of >10 min



AKHM Spill Report Form

ALL SPILLS Are Reportable to Environment Dept, if volume exceeds Table 1 on Pg 4, Enviro Dept reports to Yukon Gov't within 24 HRS

1	DATE OF SPILL: SEPT 08, 2012	TIME OF SPILL: 4pm	SPILL REPORT #: 2012-005
2	LOCATION OF SPILL: DUNCAN CREEK ROAD ↳ SOUTH SIDE OF ROAD, BTW CRUSHER + GRAVEL PIT	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.): SUMMER	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): N/A		
4	TYPE OF PRODUCT SPILLED: OIL () GASOLINE () DIESEL () OTHER <input checked="" type="checkbox"/> _____ DRILL POLYMER QUANTITY RELEASED (IN LITRES): 2 L		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) HOSE NOT SECURING LOAD IN BACK OF PICKUP TRUCK Incident Report # _____ (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) GRAVEL ROAD		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: SHOVELED / EXCAVATED / REMOVED		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW <input checked="" type="checkbox"/> MEDIUM () HIGH ()	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS): NO	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: EXCAVATED & RELOCATED TO DRILL SUMP	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES APPROPRIATELY BE SECURE LOADS DURING TRANSPORT	
12	COMPANY / CONTRACTOR INVOLVED: BOART LONGYEAR	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: JARED CHIPMAN	DEPARTMENT SUPERVISOR INVOLVED EXPLORATION
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO <input checked="" type="checkbox"/> If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
15	HAVE ADDITIONAL LICENCE / PERMIT REPORTING REQUIREMENTS BEEN TRIGGERED BY THIS SPILL? (E.G., MLU LQ00240, WUL QZ09-092, QML-0009) YES () NO <input checked="" type="checkbox"/> IF YES, NAME LICENCE / PERMIT _____	



ALEXCO

16	INTERNAL REPORTING SEQUENCE FIRST OBSERVER: <u>PAULA SUCAMEL</u> <u>AKHM</u> <u>SAFETY</u> NAME COMPANY Department/Position REPORTED TO: <u>JARED CHIPMAN</u> <u>AKHM</u> <u>EXPLORATION</u> NAME COMPANY Department/Position REPORTED TO ENVIRONMENTAL DEPARTMENT: <u>VANESSA BENWOOD</u> <u>JARED CHIPMAN</u> <u>SEPT 10, 2012</u> TO WHO BY WHOM DATE/TIME REPORTED TO AKHM MANAGEMENT: <u>N/A</u> TO WHO BY WHOM DATE/TIME
17	EXTERNAL REPORTING SEQUENCE REPORTED TO 24-HOUR YUKON SPILL HOTLINE (867) 536-2912: _____ TO WHO BY WHOM DATE/TIME DETAILED WRITTEN REPORT TO YWB, EMR, ENVIRONMENT CANADA, AND NND (REQUIRED WITHIN 10 DAYS OF SPILL): _____ DATE SUBMITTED BY WHOM

NOTE: If needed, contact CANUTEC (national advisory centre offering advice on dangerous goods emergencies) at (613) 996-6666 or (613) 992-4624

Table 1.0 Reportable spill quantities

TDG Class	Substance for 24-Hour Spill Line	Typical Products on Site	Immediately Reportable Quantities
1	Explosives	ANFO	Any amount spilled outside of blast pattern
2.3 2.3 2.4 6.2 7.0 None	Toxic gas (compressed/non-compressed) Poisonous Gases Corrosive gas (compressed/non-compressed) Infectious substances Radioactive Unknown substance		Any amount
2.3	Non-poisonous Gases		>100 Litres
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Propane Acetylene	Any amount of gas from containers with a capacity >100 Litres
3.1 3.2 3.3	Flammable liquids	Diesel Gasoline Glycol Hydraulic &/ Engine Oil	>200 Litres
4.1 4.2 4.3	Flammable Solids Spontaneously combustible solids Water reactant (dangerous when wet)		>25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	Sodium Hydroxide Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate	>50 kg or 50 Litres
5.2 9.2	Organic Peroxides Environmentally hazardous		>1 Litre or 1 kg
6.1 8.0 9.3	Poisonous substances Corrosive substances Dangerous wastes (waste oil)	Hydrochloric / Muriatic Waste Oil	>5 Litres or 5 kg
9.1	PCB Mixtures of 5 or more ppm	Transformer oil	>0.5 Litre or 0.5 kg
9.1	Miscellaneous dangerous goods		>50 kg
None	Other contaminants (eg crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)		>100 Litres or 100 kg
None	Sour natural gas (eg contains H ₂ S) Sweet natural gas		Uncontrolled release or sustained flow of >10 min



AKHM Spill Report Form

ALL SPILLS Are Reportable to Environment Dept, if volume exceeds Table 1 on Pg 4, Enviro Dept reports to Yukon Gov't within 24 HRS

1	DATE OF SPILL: <i>Oct 22, 2012</i>	TIME OF SPILL: <i>09:45</i>	SPILL REPORT #: <i>2012-006</i>
2	LOCATION OF SPILL: <i>OUTSIDE THAW SHEED, WASTE OIL STORAGE</i>	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.): <i>-4, LIGHT RAIN/SNOW</i>	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): <i>N/A</i>		
4	TYPE OF PRODUCT SPILLED: OIL (<input checked="" type="checkbox"/>) GASOLINE (<input type="checkbox"/>) DIESEL (<input type="checkbox"/>) OTHER (<input type="checkbox"/>) _____ QUANTITY RELEASED (IN LITRES): <i>3-5 L</i>		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) <i>TIPPED OVER BARREL</i> Incident Report # _____ (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) <i>RAIL TRACKS, GRAVEL</i>		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <i>SPILL PADS PLACED</i>		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW (<input checked="" type="checkbox"/>) MEDIUM () HIGH ()	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS): NO	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: SPILL PADS / ABSORBENT WAS USED + REMOVED, BARREL REMOVED + OIL TRANSFERRED TO NEW BARREL	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES ENSURE CARE IS TAKEN DURING PLACEMENT + EQUIPMENT OPERATION AROUND WASTE OIL STORAGE AREA.	
12	COMPANY / CONTRACTOR INVOLVED: AKHM	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: DAVE HILLIER	DEPARTMENT SUPERVISOR INVOLVED N/A
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO (<input checked="" type="checkbox"/>) If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
15	HAVE ADDITIONAL LICENCE / PERMIT REPORTING REQUIREMENTS BEEN TRIGGERED BY THIS SPILL? (E.G., MLU LQ00240, WUL QZ09-092, QML-0009) YES () NO (<input checked="" type="checkbox"/>) IF YES, NAME LICENCE / PERMIT _____	

16	<p>INTERNAL REPORTING SEQUENCE</p> <p>FIRST OBSERVER:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-bottom: 1px solid black; padding: 2px;">TERRY TORGERSON</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">AKHM</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">SITE SERVICES</td> </tr> <tr> <td style="font-size: small;">NAME</td> <td style="font-size: small;">COMPANY</td> <td style="font-size: small;">Department/Position</td> </tr> </table> <p>REPORTED TO:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-bottom: 1px solid black; padding: 2px;">VANESSA BENWOOD</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">AKHM</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">ENVIRO</td> </tr> <tr> <td style="font-size: small;">NAME</td> <td style="font-size: small;">COMPANY</td> <td style="font-size: small;">Department/Position</td> </tr> </table> <p>REPORTED TO ENVIRONMENTAL DEPARTMENT:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-bottom: 1px solid black; padding: 2px;">V. BENWOOD</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">TERRY TORGERSON</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;">OCT 22, 2012</td> </tr> <tr> <td style="font-size: small;">TO WHO</td> <td style="font-size: small;">BY WHOM</td> <td style="font-size: small;">DATE/TIME</td> </tr> </table> <p>REPORTED TO AKHM MANAGEMENT:</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-bottom: 1px solid black; padding: 2px;">NA</td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;"></td> <td style="width: 30%; border-bottom: 1px solid black; padding: 2px;"></td> </tr> <tr> <td style="font-size: small;">TO WHO</td> <td style="font-size: small;">BY WHOM</td> <td style="font-size: small;">DATE/TIME</td> </tr> </table>	TERRY TORGERSON	AKHM	SITE SERVICES	NAME	COMPANY	Department/Position	VANESSA BENWOOD	AKHM	ENVIRO	NAME	COMPANY	Department/Position	V. BENWOOD	TERRY TORGERSON	OCT 22, 2012	TO WHO	BY WHOM	DATE/TIME	NA			TO WHO	BY WHOM	DATE/TIME
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NOTE: If needed, contact CANUTEC (national advisory centre offering advice on dangerous goods emergencies) at (613) 996-6666 or (613) 992-4624

Table 1.0 Reportable spill quantities

TDG Class	Substance for 24-Hour Spill Line	Typical Products on Site	Immediately Reportable Quantities
1	Explosives	ANFO	Any amount spilled outside of blast pattern
2.3 2.3 2.4 6.2 7.0 None	Toxic gas (compressed/non-compressed) Poisonous Gases Corrosive gas (compressed/non-compressed) Infectious substances Radioactive Unknown substance		Any amount
2.3	Non-poisonous Gases		>100 Litres
2.1 2.2	Compressed gas (flammable) Compressed gas (non-corrosive, non flammable)	Propane Acetylene	Any amount of gas from containers with a capacity >100 Litres
3.1 3.2 3.3	Flammable liquids	Diesel Gasoline Glycol Hydraulic &/ Engine Oil	>200 Litres
4.1 4.2 4.3	Flammable Solids Spontaneously combustible solids Water reactant (dangerous when wet)		>25 kg
5.1 9.1	Oxidizing substances Miscellaneous products or substances excluding PCB mixtures	Sodium Hydroxide Lime Solution Sodium Nitrate Calcium Hypochlorite Ammonium Nitrate	>50 kg or 50 Litres
5.2 9.2	Organic Peroxides Environmentally hazardous		>1 Litre or 1 kg
6.1 8.0 9.3	Poisonous substances Corrosive substances Dangerous wastes (waste oil)	Hydrochloric / Muriatic Waste Oil	>5 Litres or 5 kg
9.1	PCB Mixtures of 5 or more ppm	Transformer oil	>0.5 Litre or 0.5 kg
9.1	Miscellaneous dangerous goods		>50 kg
None	Other contaminants (eg crude oil, drilling fluid, produced water, waste or spent chemicals, used or waste oil, vehicle fluids, waste water, etc.)		>100 Litres or 100 kg
None	Sour natural gas (eg contains H ₂ S) Sweet natural gas		Uncontrolled release or sustained flow of >10 min



Alexco Keno Hill Mining, Bellekeno Minesite

Spill Report Form

1	DATE OF SPILL: <i>APRIL 29, 2012</i>	TIME OF SPILL: <i>0915</i>	SPILL REPORT #: <i>2012-003</i>
2	LOCATION OF SPILL: <i>BELLEKENO 605</i>	SITE CONDITIONS (TEMPERATURE, WIND, GROUND PERMEABILITY ETC.):	
3	SAFETY HAZARDS (FIRE, FUMES, EXPLOSIVE SUBSTANCE, ETC): <i>EXPLOSIVE SUBSTANCE</i>		
4	TYPE OF PRODUCT SPILLED: OIL () GASOLINE () DIESEL () OTHER (✓) <u><i>PROPANE</i></u>		
	QUANTITY RELEASED (IN LITRES): <i>~ 80L</i>		
5	CAUSE OF THE SPILL (E.G., BROKEN HOSE, VEHICLE ACCIDENT, EQUIPMENT FAILURE, POLICY AWARENESS) <i>LEAKING VALVE</i>		
	Incident Report # <u><i>ATTACHED</i></u> (if applicable)		
6	ENVIRONMENTAL CONTAINMENT FACTORS (E.G., NATURAL DEPRESSION/BERM, SNOW) <i>NON</i>		
7	ACTIONS TAKEN TO DATE TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: <i>MINE EMERGENCY RESPONSE TEAM NOTIFIED, IGNITION SOURCES ISOLATED/REMOVED, POWER SHUT OFF, MINE EVACUATED, SUPERIOR PROPANE CALLED TO FIX</i>		



ALEXCO

8	ENVIRONMENTAL RISK (DESCRIBE DISTANCE TO NEAREST WATER BODY, SENSITIVE HABITAT, WAS IT A SPILL TO GROUND OR WATER ETC.): LOW () MEDIUM (<input checked="" type="checkbox"/>) HIGH () ABOVE THUNDER GULCH	
9	SAMPLES TAKEN (DESCRIBE NATURE OF SAMPLES, LOCATION, INTENDED ANALYSIS): NONE	
10	SUBSEQUENT ACTIONS REQUIRED TO CONTAIN, RECOVER OR DISPOSE OF THE SPILLED PRODUCT AND CONTAMINATED MATERIALS: PROPANE EVAPORATED	
11	RECOMMENATIONS FOR IMPROVEMENTS AND PREVENTATIVE MEASURES REGULAR INSPECTIONS BY BOTH ONSITE PERSONNEL + SUPERIOR PROPANE, REGULAR MAINTENANCE	
12	COMPANY / CONTRACTOR INVOLVED: AKHM / SUPERIOR PROPANE	
13	NAME OF AKHM ONSITE SUPERVISOR(S) AT THE TIME OF SPILL: TIM HALL	DEPARTMENT SUPERVISOR INVOLVED TIM HALL
14	IS THE SPILL REPORTABLE AS PER TABLE 1.0 REPORTABLE SPILL VOLUMES (BELOW)? YES () NO (<input checked="" type="checkbox"/>) If YES then complete form to the end of section 17 and contact 24-Emergency Spill Line If NO then complete form to the end of section 16	
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ALEXCO

16	INTERNAL REPORTING SEQUENCE		
	FIRST OBSERVER:		
	<u>ROB SCHNEIDER</u>	<u>AKHM</u>	<u>CTM</u>
	NAME	COMPANY	Department/Position
	REPORTED TO:		
<u>DEAN COLTS</u>	<u>PROCON</u>	<u>SAFETY</u>	
NAME	COMPANY	Department/Position	
REPORTED TO ENVIRONMENTAL DEPARTMENT:			
<u>V. BENWOOD</u>	<u>ROB SCHNEIDER</u>	<u>MAY 3, 2013</u> 4/29/2013	
TO WHO	BY WHOM	DATE/TIME	
REPORTED TO AKHM MANAGEMENT:			
<u>TIM HALL</u>	<u>ROB SCHNEIDER</u>	<u>APRIL 29, 2013</u>	
TO WHO	BY WHOM	DATE/TIME	
17	EXTERNAL REPORTING SEQUENCE		
	REPORTED TO 24-HOUR YUKON SPILL HOTLINE (867) 536-2912:		
	TO WHO	BY WHOM	DATE/TIME
	DETAILED WRITTEN REPORT TO YWB, EMR, ENVIRONMENT CANADA, AND NND (REQUIRED WITHIN 10 DAYS OF SPILL):		
DATE SUBMITTED	BY WHOM		

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