NEWMONT
NORTH AMERICA

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July 30, 2010

Melissa Joy
Water Resource Officer Kitikmeot Region
Indian and Northern Affairs Canada
P.O. Box 278
Kugluktuk, NU
X0B 0E0

Re: Update on the Use of EK-35 Dust Suppressant for Doris North Project

Dear Ms. Joy,

On June 3, 2010, Hope Bay Mining Ltd. (HBML) notified you of its planned use of EK-35 dust suppressant at the Doris North Project. This letter is a follow-up to the notification and provides additional information about the test run that was performed.

A test application of EK-35 was performed on June 3, 2010 in the presence of the Midwest company representative, Lynn Edwards, and HBML site supervisors Norm Stevens and Glenn Winsor. The application was performed by two operators, trained by Ms. Edwards, and overseen by their Nuna Logistics supervisor.

The following points summarize the activity:

- The application was made on the road between the crusher and the south end of the airstrip over a distance of approximately 300 meters.
- Samples of pooled water were taken prior to the test (June 3, 2010 – see attached).
- Application was performed in accordance with the SOP submitted to you on June 3, 2010
- Minor revisions were made to the SOP based on this test application and comments provided by Lynn Edwards (see attached).
- The application is very direct and no pooling of EK-35 occurred. The chance of run-off is nil.
- The chance of air-borne transport is low and to avoid this, application will take place when wind speed is <20 km/hr.

Subsequent applications of EK-35 have occurred on site to help manage dust in areas where the application of water has not been successful at controlling dust. The following points summarize the applications:

- Three applications have been made to the airstrip.
- One application was made from the south end of the airstrip to Doris Camp.
- Water samples were taken prior to and after the first application on the airstrip (June 20, 2010 – see attached)

Attached are some photos taken prior to, during, and after the test application, as well as the test sample results taken prior to and after the applications. The test results show that no EK-35 has reached any water. We have also attached an e-mail from the GN regarding the use of EK-35 as a dust suppressant in Nunavut.

Should you have any questions regarding this notification, please do not hesitate to contact me at Chris.Hanks@newmont.com.

Sincerely,

Chris Hanks

Digitally signed by Chris Hanks
DN: cn=Chris Hanks, o=Hope Bay Mining Ltd., ou=Director, Environment and Social Responsiblity, email=chris.hanks@newmont.com, c=US
Date: 2010.07.30 15:41:58 -06'00'

Chris Hanks
Director Environmental and Social Responsibility
Hope Bay Mining Ltd.

Cc.: KIA, NIRB

Figure 1 - Driving on road prior to EK-35 application.

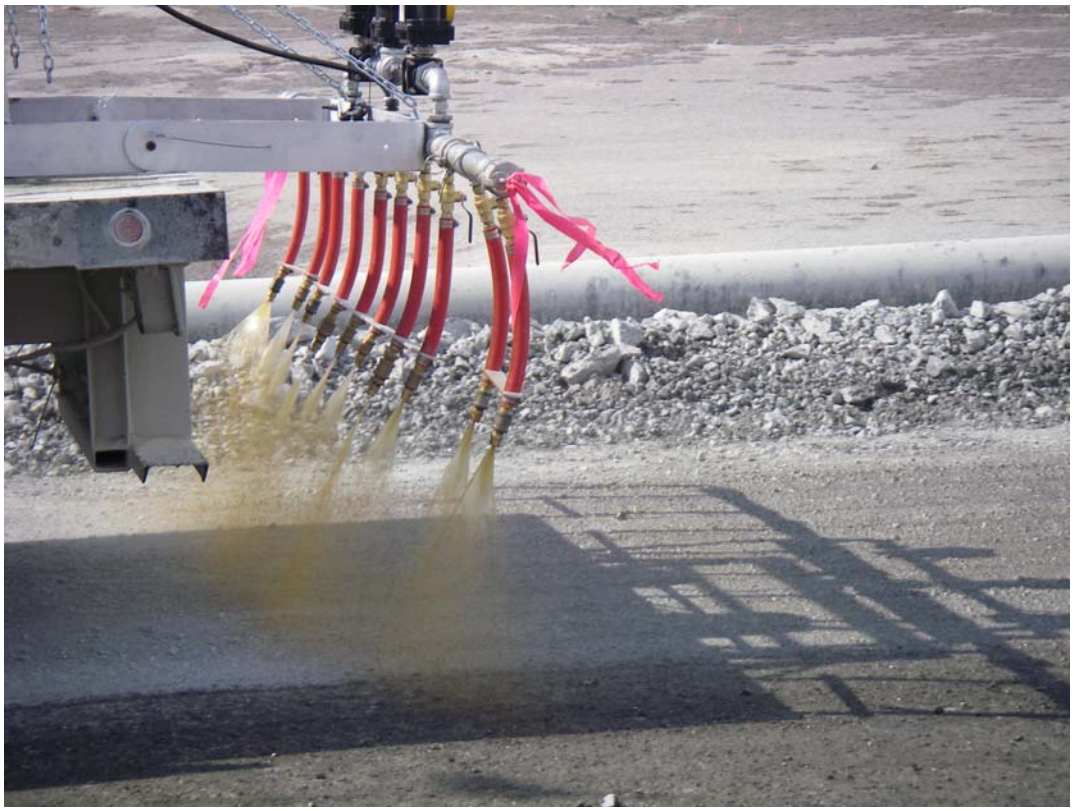


Figure 2 - EK-35 Application

Figure 3 - Road after application of EK-35.

Certificate of Analysis

HOPE BAY MINING LTD
ATTN: JILL TURK
300, 889 HARBOURSIDE DRIVE
NORTH VANCOUVER BC V7P 3S1

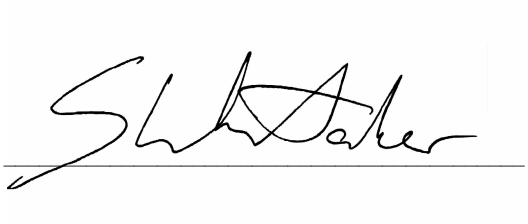
Report Date: 10-JUN-10 15:18 (MT)
Version: FINAL

Lab Work Order #: **L894110** **Date Received:** **04-JUN-10**

Project P.O. #: H00288
Job Reference: COMPLIANCE WATER SAMPLES
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:



ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L894110-1 EK-35 #1							
Sampled By: JT on 03-JUN-10 @ 12:00							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L	08-JUN-10	08-JUN-10	R1271010
Toluene	<0.00050		0.00050	mg/L	08-JUN-10	08-JUN-10	R1271010
Ethylbenzene	<0.00050		0.00050	mg/L	08-JUN-10	08-JUN-10	R1271010
o-Xylene	<0.00050		0.00050	mg/L	08-JUN-10	08-JUN-10	R1271010
m+p-Xylene	<0.00050		0.00050	mg/L	08-JUN-10	08-JUN-10	R1271010
F1(C6-C10)	<0.10		0.10	mg/L	08-JUN-10	08-JUN-10	R1271010
F1-BTEX	<0.10		0.10	mg/L	08-JUN-10	08-JUN-10	R1271010
Xylenes	<0.0010		0.0010	mg/L	08-JUN-10	08-JUN-10	R1271010
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345
F3 (C16-C34)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345
F4 (C34-C50)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345
L894110-2 EK-35 #2							
Sampled By: JT on 03-JUN-10 @ 12:00							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		08-JUN-10	R1271010
Toluene	<0.00050		0.00050	mg/L		08-JUN-10	R1271010
Ethylbenzene	<0.00050		0.00050	mg/L		08-JUN-10	R1271010
o-Xylene	<0.00050		0.00050	mg/L		08-JUN-10	R1271010
m+p-Xylene	<0.00050		0.00050	mg/L		08-JUN-10	R1271010
F1(C6-C10)	<0.10		0.10	mg/L		08-JUN-10	R1271010
F1-BTEX	<0.10		0.10	mg/L		08-JUN-10	R1271010
Xylenes	<0.0010		0.0010	mg/L		08-JUN-10	R1271010
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345
F3 (C16-C34)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345
F4 (C34-C50)	<0.25		0.25	mg/L	08-JUN-10	08-JUN-10	R1272345

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX,F1-ED	Water	BTEX and F1 (C6-C10)	EPA 5021/8015&8260 GC-MS & FID
F2,F3,F4-ED	Water	F2, F3, F4	EPA 3510/CCME PHC CWS-GC-FID

** 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:

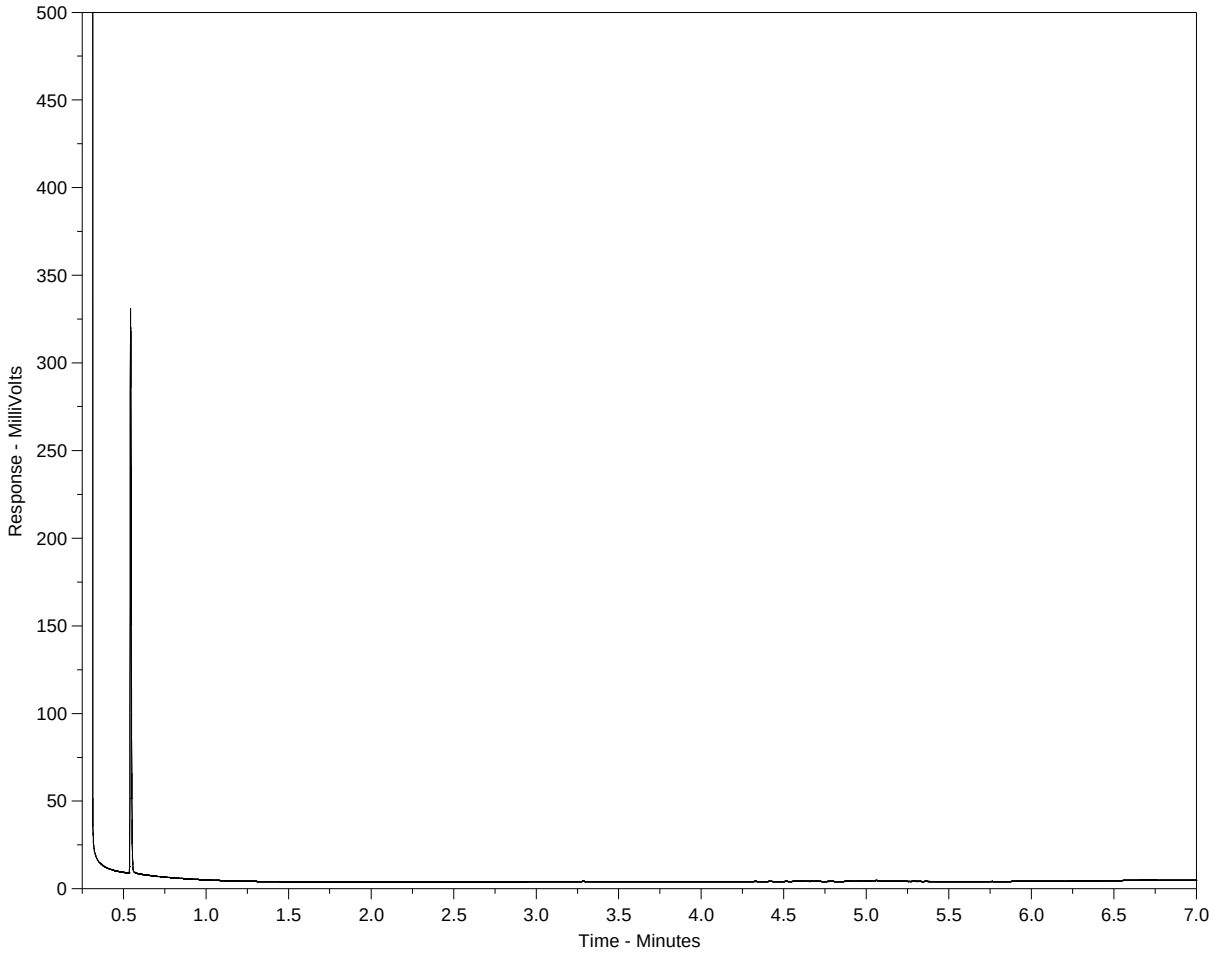
GLOSSARY OF REPORT TERMS

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
mk/kg wwt - 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.

Hydrocarbon Distribution Report

ALS Sample ID: **L894110-1**
Client ID: **EK-35 #1**



<-nC10----------nC16----------nC34----------nC50->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

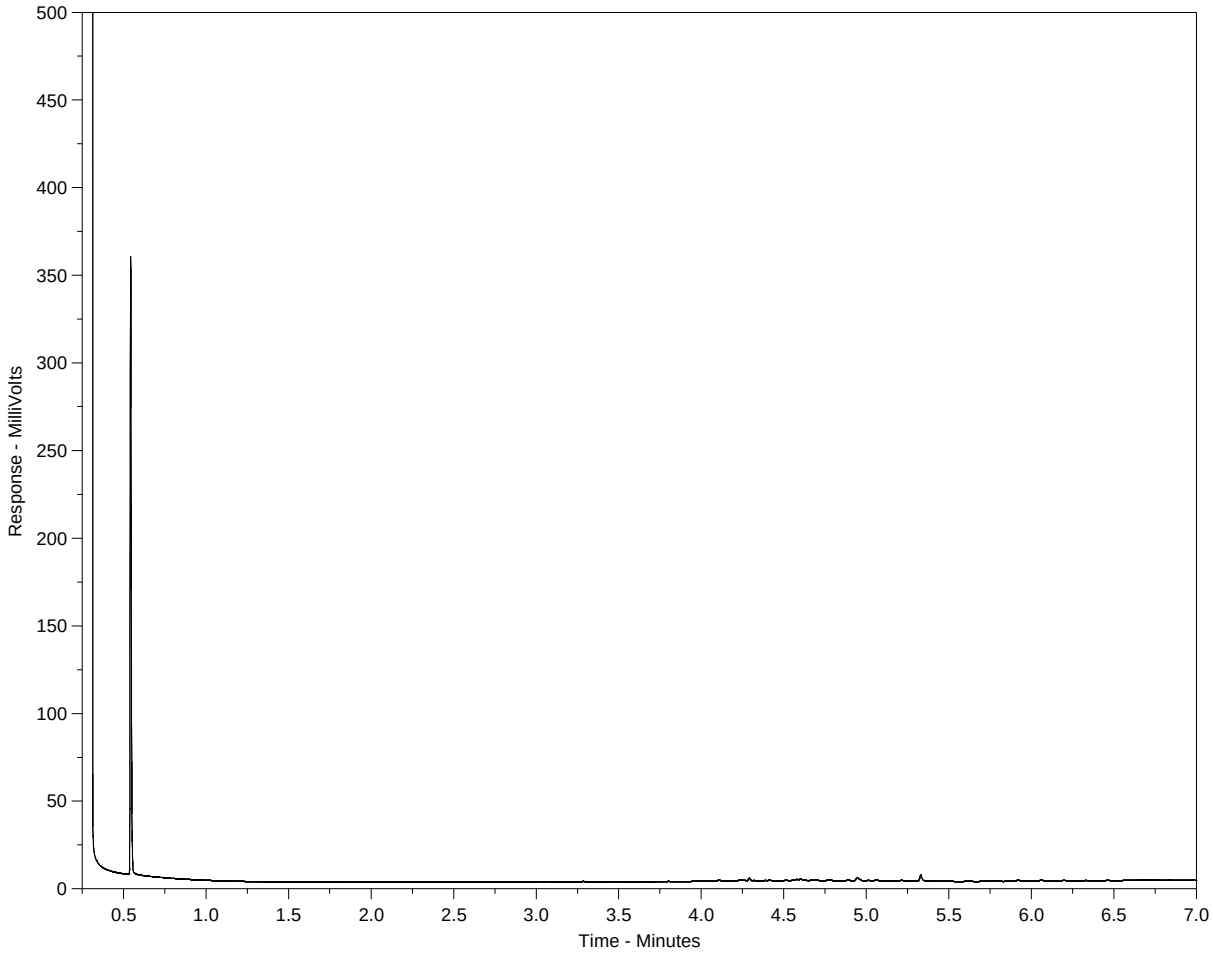
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report

ALS Sample ID: **L894110-2**
Client ID: **EK-35 #2**



<-nC10----------nC16----------nC34----------nC50->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Certificate of Analysis

HOPE BAY MINING LTD
ATTN: JILL TURK
300, 889 HARBOURSIDE DRIVE
NORTH VANCOUVER BC V7P 3S1

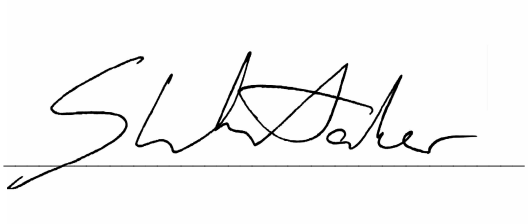
Report Date: 06-JUL-10 17:20 (MT)
Version: FINAL

Lab Work Order #: **L902066** **Date Received:** **25-JUN-10**

Project P.O. #: H00288
Job Reference: COMPLIANCE WATER SAMPLES
Legal Site Desc:
CofC Numbers:

Other Information:

Comments:



ALS LABORATORY GROUP ANALYTICAL REPORT

Sample Details/Parameters	Result	Qualifier*	D.L.	Units	Extracted	Analyzed	Batch
L902066-1 DORIS AIRSTRIP STR #1 (PRE-EK-35)							
Sampled By: DV on 20-JUN-10 @ 14:00							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Toluene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Ethylbenzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
o-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
m+p-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
F1(C6-C10)	<0.10		0.10	mg/L		05-JUL-10	R1322846
F1-BTEX	<0.10		0.10	mg/L		05-JUL-10	R1322846
Xylenes	<0.0010		0.0010	mg/L		05-JUL-10	R1322846
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F3 (C16-C34)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F4 (C34-C50)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
L902066-2 DORIS AIRSTRIP STR #2 (PRE-EK-35)							
Sampled By: DV on 20-JUN-10 @ 14:30							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Toluene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Ethylbenzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
o-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
m+p-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
F1(C6-C10)	<0.10		0.10	mg/L		05-JUL-10	R1322846
F1-BTEX	<0.10		0.10	mg/L		05-JUL-10	R1322846
Xylenes	<0.0010		0.0010	mg/L		05-JUL-10	R1322846
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F3 (C16-C34)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F4 (C34-C50)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
L902066-3 DORIS AIRSTRIP STR #1 (POST-EK-35)							
Sampled By: DV on 24-JUN-10 @ 15:20							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Toluene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Ethylbenzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
o-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
m+p-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
F1(C6-C10)	<0.10		0.10	mg/L		05-JUL-10	R1322846
F1-BTEX	<0.10		0.10	mg/L		05-JUL-10	R1322846
Xylenes	<0.0010		0.0010	mg/L		05-JUL-10	R1322846
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F3 (C16-C34)	0.35		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F4 (C34-C50)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463

* 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
L902066-4 DORIS AIRSTRIP STR #2 (POST-EK-35)							
Sampled By: DV on 24-JUN-10 @ 15:30							
Matrix: WATER							
BTEX & F1-F4							
BTEX and F1 (C6-C10)							
Benzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Toluene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
Ethylbenzene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
o-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
m+p-Xylene	<0.00050		0.00050	mg/L		05-JUL-10	R1322846
F1(C6-C10)	<0.10		0.10	mg/L		05-JUL-10	R1322846
F1-BTEX	<0.10		0.10	mg/L		05-JUL-10	R1322846
Xylenes	<0.0010		0.0010	mg/L		05-JUL-10	R1322846
F2, F3, F4							
F2 (>C10-C16)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F3 (C16-C34)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463
F4 (C34-C50)	<0.25		0.25	mg/L	02-JUL-10	02-JUL-10	R1326463

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

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
BTX,F1-ED	Water	BTEX and F1 (C6-C10)	EPA 5021/8015&8260 GC-MS & FID
F2,F3,F4-ED	Water	F2, F3, F4	EPA 3510/CCME PHC CWS-GC-FID

** 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:

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 wwt - 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.
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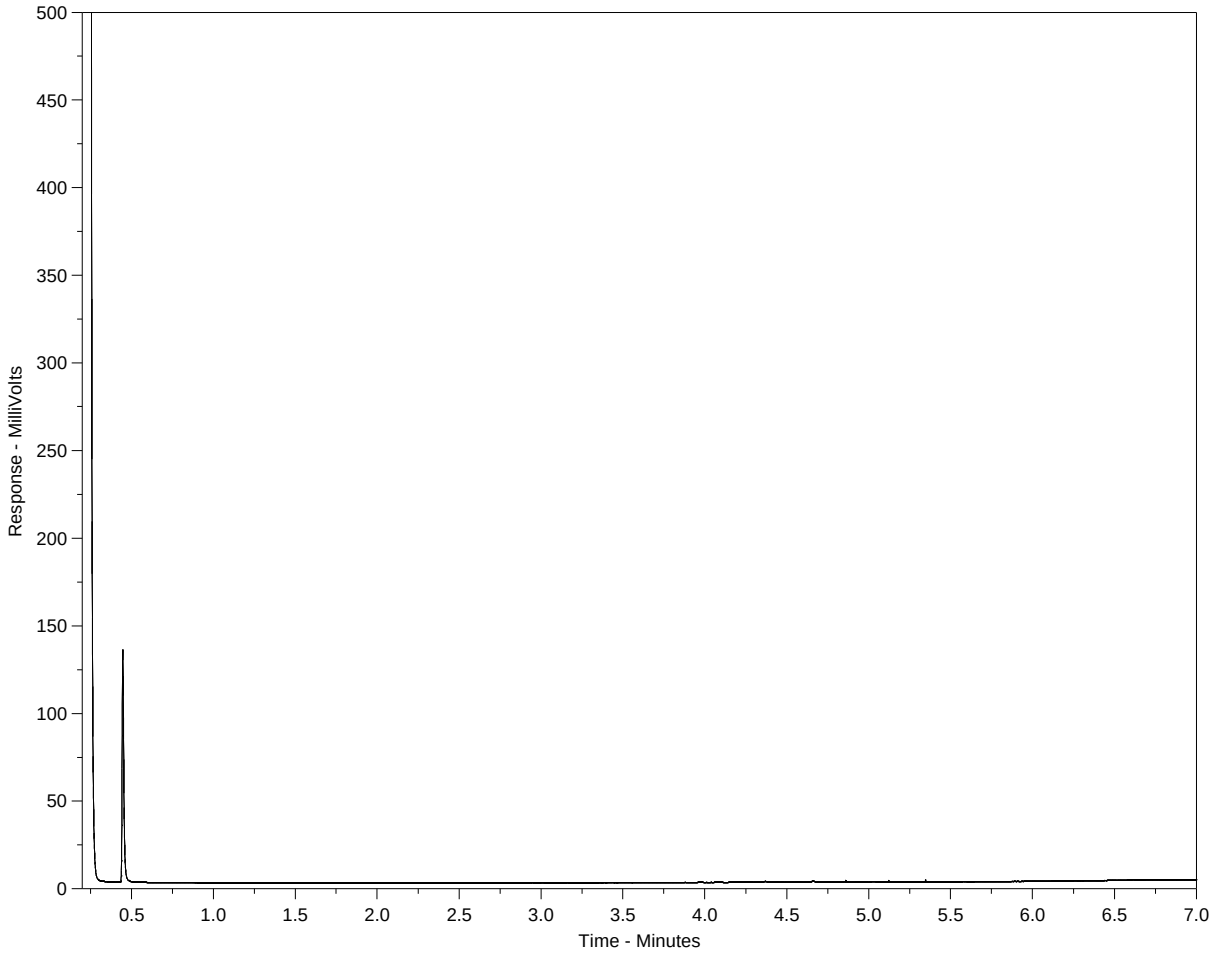
Hydrocarbon Distribution Report

ALS Sample ID: **L902066-1**
Client ID: **DORIS AIRSTRIP STR #1 (PRE-EK-35)**



<-nC10----------nC16----------nC34----------nC50->
<---------nC11----------nC30---------->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

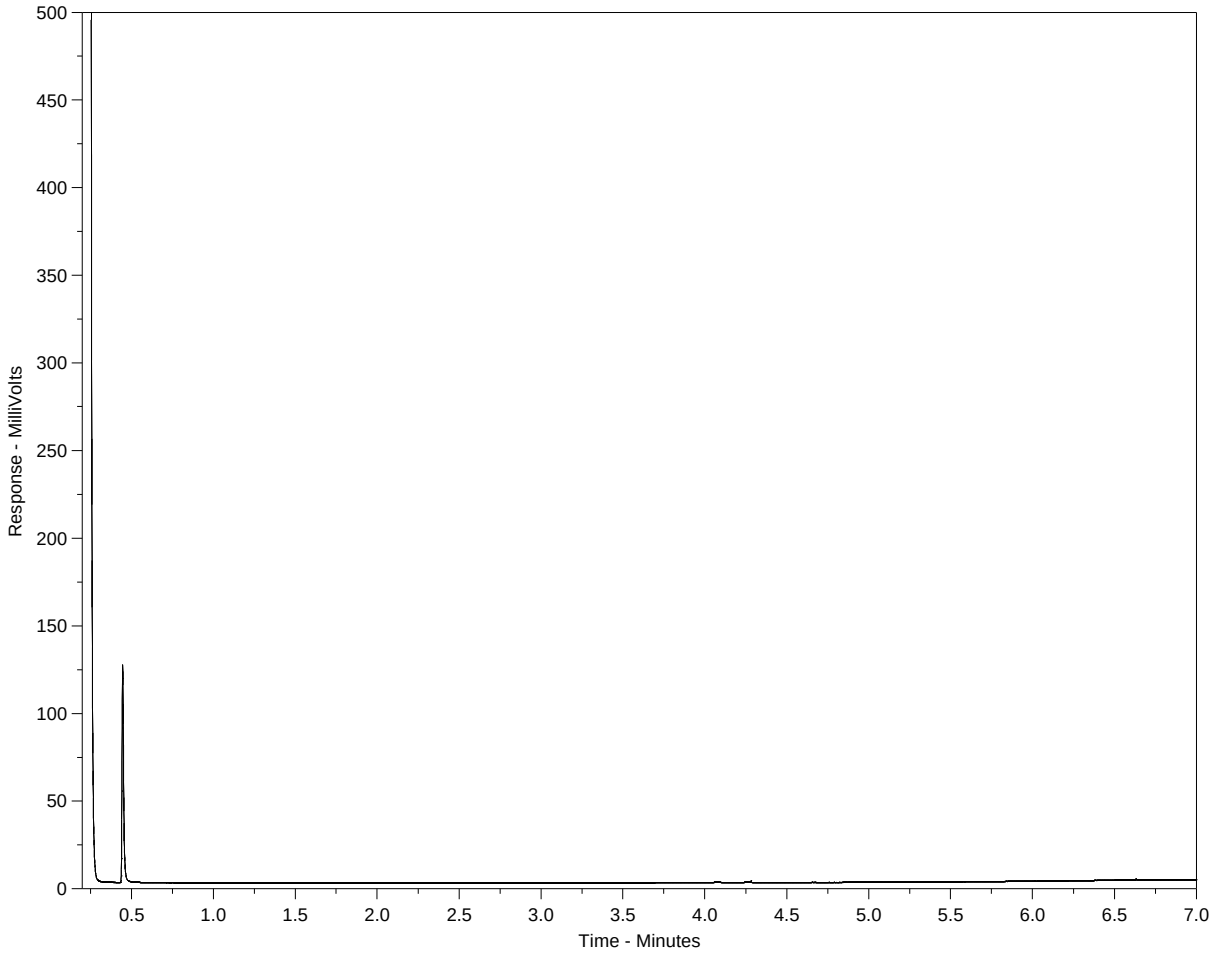
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report

ALS Sample ID: **L902066-2**
Client ID: **DORIS AIRSTRIP STR #2 (PRE-EK-35)**



<-nC10----------nC16----------nC34----------nC50->
<----------nC11----------nC30---------->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

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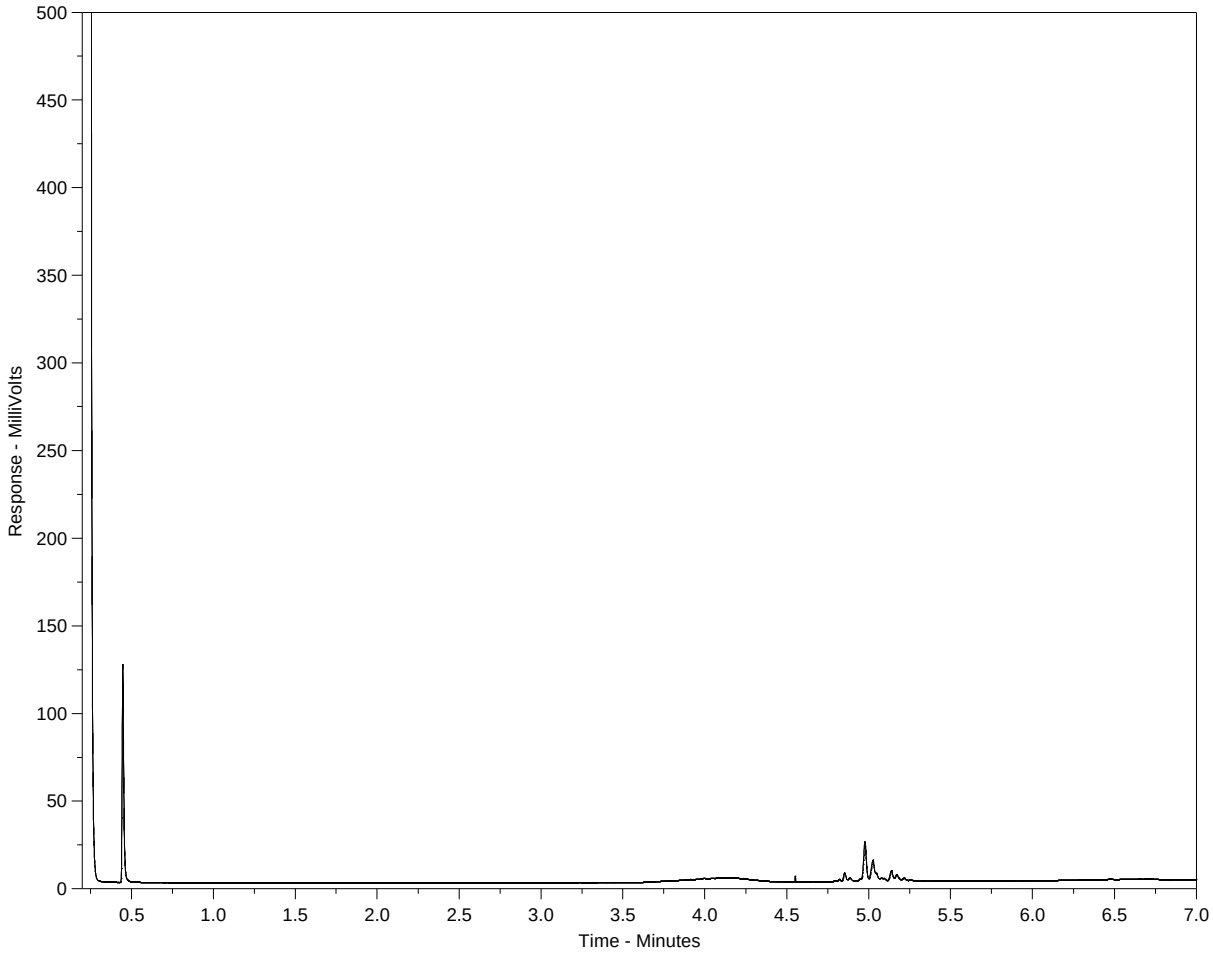
Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report

ALS Sample ID: **L902066-3**
Client ID: **DORIS AIRSTRIP STR #1 (POST-EK-35)**



<-nC10----------nC16----------nC34----------nC50->
<----------nC11----------nC30---------->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

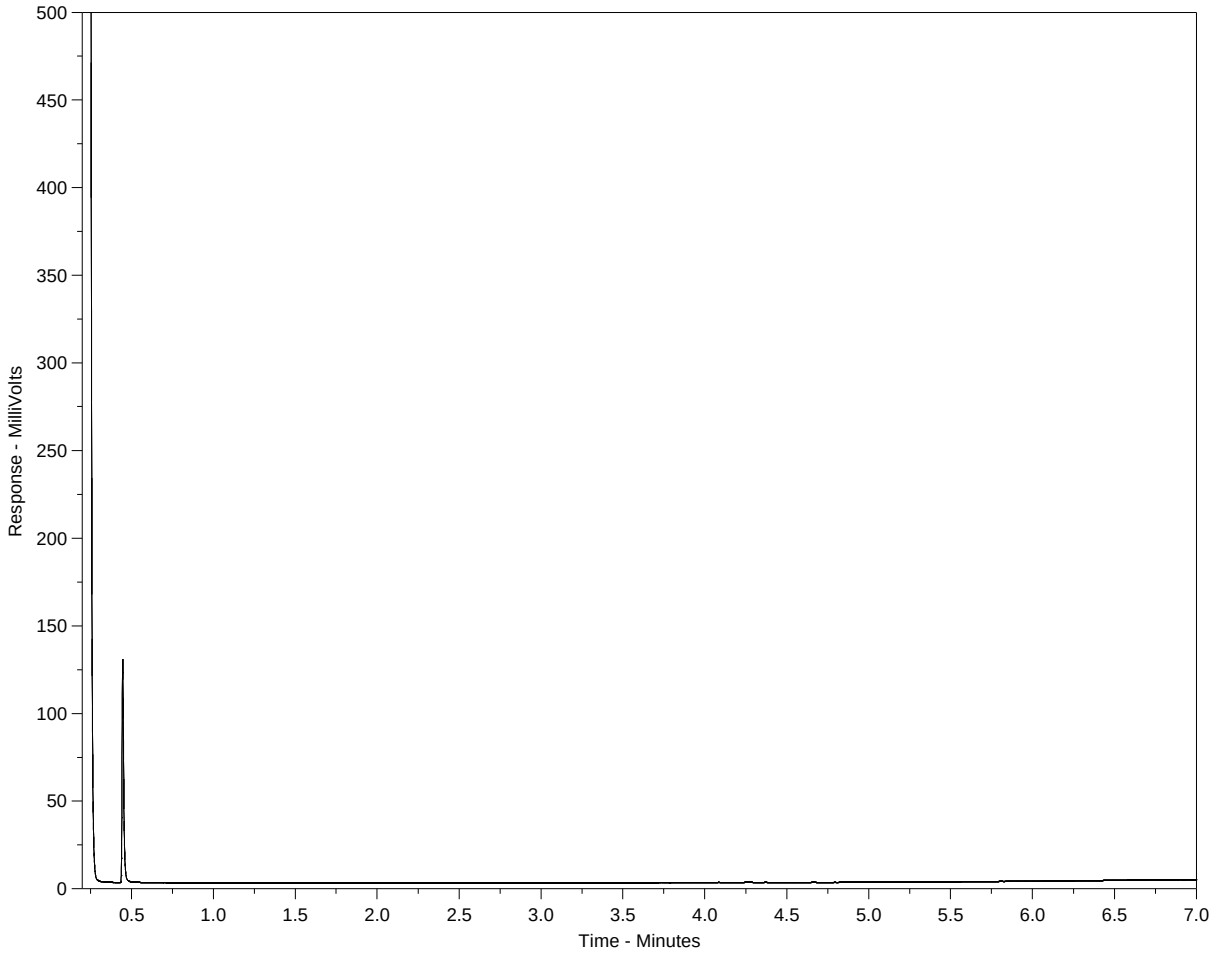
The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

Hydrocarbon Distribution Report

ALS Sample ID: **L902066-4**
Client ID: **DORIS AIRSTRIP STR #2 (POST-EK-35)**



<-nC10----------nC16----------nC34----------nC50->
<----------nC11----------nC30---------->
<----------Gasoline----------> <----------Heavy Oils---------->
|----------Diesel----------|

The Canada Wide Standard Hydrocarbon Distribution Report is intended to assist you in characterizing hydrocarbon products that may be present in your sample. The scale at the bottom of the chromatogram indicates the approximate retention times of common petroleum products as well as a number of specified n-alkane hydrocarbon marker compounds. Comparison of this report with those of reference standards may also assist in characterizing hydrocarbons present in the sample.

Peak heights in this report are a function of the sample concentration, the sample amount extracted, the sample dilution factor, and the scale at left.

Note: This chromatogram was produced with a high temperature GC method that is specific to the Canada-Wide Standard method (December 2007 version). Note that retention times and distribution profiles from reports produced using different GC programs will differ.

ALS Environmental
ANALYTICAL CHEMISTRY & TESTING SERVICES

www.alsenviro.com

Vancouver BC, 1988 Triumph Street, V5L 1K5, Tel: 604-253-4188 Toll Free: 1-800-665-0243 Fax: 604-253-6700
Fort St. John BC, Box 256, 9831 - 98A Avenue, V1J 6W7, Tel: 250-261-5517 Fax: 250-261-5587
Grand Prairie AB, 9505 - 111 Street, T8V 5W1, Tel: 780-539-5196 Toll Free: 1-800-668-9878 Fax: 780-513-2191
Fort McMurray AB, Bay 1, 245 Macdonald Cr, T9H 4B5, Tel: 780-791-1524 Fax: 780-791-1586
Edmonton AB, 9936 - 67th Avenue, T6E 0P5, Tel: 780-413-5227 Toll Free: 1-800-668-9878 Fax: 780-437-2311
Calgary AB, Bay 7, 1313 - 44th Avenue NE, T2E 6L5, Tel: 403-291-9897 Toll Free: 1-800-668-9878 Fax: 403-291-0298
Saskatoon SK, 819 - 58th Street East, S7K 6X5, Tel: 306-668-8370 Toll Free: 1-800-667-7645 Fax: 306-668-8383

L902066

SEND REPORT TO:

CHAIN OF CUSTODY FORM

COMPANY:	Hope Bay Mining Limited			ATTN:	Sr. Env. Co-ordinator
ADDRESS:	300-889 Habourside Drive				
CITY:	North Vancouver	PROV:	British Columbia	POSTAL CODE:	V7P 3S1
TEL:	1-604-985-2572	FAX:	1-604-980-0731	SAMPLER:	D. Vokey
PROJECT NAME AND NO.:	Compliance Water Samples			QUOTE NO:	
PO NO.:	H00288	ALS CONTACT:	Jessica Spira		
REPORT FORMAT:	☐ HARDCOPY ☑ EMAIL - ADDRESS: Jill.Turk@Newmont.com ☐ FAX ☑ EXCEL ☑ PDF ☐ OTHER:				

ANALYSIS REQUESTED:

FOR LAB USE ONLY WO#	SAMPLE IDENTIFICATION	DATE / TIME COLLECTED: YYYY-MM-DD	DATE / TIME COLLECTED: TIME	MATRIX	BTEX, F1	F2-F4	NOTES (sample specific comments, due dates, etc.)
	Doris Airstrip STR # 1 (pre-EK-35)	2010-06-20	1400 hrs	water	X		precharged
	Doris Airstrip STR # 1 (pre-EK-35)	2010-06-20	1400 hrs	water		X	
	Doris Airstrip STR # 2 (pre-EK-35)	2010-06-20	1430 hrs	water	X		precharged
	Doris Airstrip STR # 2 (pre-EK-35)	2010-06-20	1430 hrs	water		X	
	Doris Airstrip STR # 1 (post-EK-35)	2010-06-24	1520 hrs	water	X		
	Doris Airstrip STR # 1 (post-EK-35)	2010-06-24	1520 hrs	water		X	
	Doris Airstrip STR # 2 (post-EK-35)	2010-06-24	1530 hrs	water	X		
	Doris Airstrip STR # 2 (post-EK-35)	2010-06-24	1530 hrs	water		X	

TURN AROUND REQUIRED: ◉ ROUTINE ○ RUSH **SPECIFY DATE:** _____ (surcharge may apply)

SEND INVOICE TO: ☑ SAME AS REPORT ☐ DIFFERENT FROM REPORT (provide details below)

INVOICE FORMAT: ☑ HARDCOPY ☑ PDF ☐ FAX

SPECIAL INSTRUCTIONS: Please send invoice to Attention: HBML Accounting Section using the above address: Please quote this PO #: H00288 Electronic results to:Jill.Turk@Newmont.com and MHBLEnvironmental@Newmont.com

RELINQUISHED BY:	DATE:	June 25/10	RECEIVED BY:	DATE:	
D. Vokey	TIME:	9:00am		TIME:	
RELINQUISHED BY:	DATE:		RECEIVED BY:	DATE:	
	TIME:			TIME:	

FOR LAB USE ONLY

Cooler Seal Intact? ___Yes ___No ___N/A | Sample Temperature: ____°C Frozen? ___Yes ___No | Cooling Method? ___Icepacks ___Ice ___None

From: Eno, Robert [REno@GOV.NU.CA]
Sent: June 3, 2010 2:34 PM
To: Lea-Marie Bowes-Lyon
Cc: Bill Patterson; Jill Turk; Chris Hanks
Subject: RE: HBML Request to Use EK-35 as a Dust Suppressant

Hello Lea-Marie,

I have examined the data on this substance. Included in the review, is a USEPA report which suggests that this product does not pose a risk to the environment. Canadian data suggests that:

EK35 shows a range of toxicity from practically non-toxic to moderately toxic depending on the species and the exposure time; when used and applied properly EK35 is not known to pose any ecological problems.

I have also searched out other jurisdictions to determine if EK35 is in use elsewhere.

Based on our review, DoE does not object to your using this substance for dust suppression, provided that you adhere to the manufacturer's instructions. Other considerations include but are not restricted to:

·Use should be limited to roadways or areas subject to frequent vehicular traffic

·Ensure that the substance is evenly-distributed and thoroughly incorporated into the road way to ensure minimal runoff; avoid any pooling of the product

Please refer to DoE's Environmental Guideline for Dust Suppression for details on how to employ this substance and remain in compliance with our Environmental Protection Act. You can find copies of all pertinent GN environmental legislation and guidelines here:

http://www.gov.nu.ca/env/environment.shtml

Please note that until we are able to formally list EK35 as an approved dust suppressant in our proposed revisions to the above-mentioned dust suppression guideline, this note should be considered as a blanket approval for any future activities.

You should also be aware that the Nunavut Water Board and/or Indian and Northern Affairs Canada must be consulted as they have ultimate regulatory authority over your activities. Feel free to provide them with a copy of this note.

Robert Eno
Director/Chief Environmental Protection Officer
Environmental Protection Division
Dept. of Environment
Gov't of Nunavut
Iqaluit, NU
867-975-7729

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

1. PURPOSE

This document describes procedures for working safely and in an environmentally sound manner with dust suppressant EK-35 at Hope Bay project sites in order to achieve effective suppression of dust.

2. SCOPE

This procedure applies to all applications of EK-35 and all personnel at Hope Bay that may have the potential to come into contact with, handle, store or apply EK-35.

3. DEFINITIONS

EK-35	Synthetic, organic, non-toxic, non-hazardous, non-flammable dust control product
ESR	Department of Environmental and Social Responsibility
HSLP	Department of Health, Safety and Loss Prevention

4. RESPONSIBILITY

Title or Position	Key Responsibilities
Application Operator	Review this SOP and the product MSDS prior to handling or applying EK-35, utilize appropriate PPE ,observe proper environmental protection and be familiar with spill response procedures
Supervisor	Ensure this SOP is current, relevant, and reviewed and understood by all personnel involved with the handling, storage or application of EK-35, including environmental protection measures and emergency response protocols.
Manager	Review and approve this SOP
Facilities Manager	Ensure appropriate facilities are provided to for proper protected storage of EK-35
ESR	Ensure appropriate regulatory approvals/notifications are in place before any application of EK-35 and that sampling and monitoring of the application of product is conducted
HSLP	Ensure this SOP contains appropriate controls relevant to worker safety

5. REGULATORY APPROVAL FOR USE

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

The application of EK-35 at the Hope Bay project site is contingent on special regulatory approval as this product is not approved for use as a dust suppressant in Nunavut. Refer to the site Environmental Department for permission to apply.

6. NOTIFICATION TO REGULATOR

In accordance with the *Environmental Guideline for Dust Suppression* – Nunavut Department of Sustainable Development, the local Environmental Protection Officer will be notified with the following information when dust suppressants are planned for use:

- The location of the site
- The product used
- A timetable for the work

This information will be conveyed to the Environmental Department for notification to the regulator before the application of the EK-35 is scheduled to commence.

7. ENVIRONMENTAL PROTECTION AND CONTROLS

Nozzles on the EK-35 truck-mounted applicator will be set in position as low to the application surface as practicable to prevent airborne transport of any product. The optimal height of the nozzles above ground should be 18 inches. The viscosity of the product varies with temperature; the aim of the application is to achieve spray of droplets as opposed to atomization.

EK-35 will not be applied to road surfaces within 30 metres of any active culvert/watercourse and will not be applied during periods of wind speed greater than 20km/hr. and if rain is predicted within the next 12 hours.

The product will be applied in a manner that will not allow pooling or permit any runoff beyond the road/laydown pad margins.

Water sampling pre- and post-application in water adjacent to the application area will be undertaken by the environmental department and results provided to the regulatory agency if requested.

8. SAFE STORAGE AND HANDLING

- EK-35 should be stored in a cool, dry, well ventilated area in secondary containment
- EK-35 is non-flammable, but will burn on prolonged exposure to flame or high temperature.
- Keep away from sources of ignition and separate from oxidizing agents
- EK-35 can be stored indefinitely at any temperature and will not freeze

9. EXPOSURE CONTROL/PERSONAL PROTECTION

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

- RESPIRATORY PROTECTION: None required if good ventilation is maintained. If mist is generated by heating or spraying use a NIOSH approved organic respirator with a mist filter.
- VENTILATION: Under normal handling conditions special ventilation is not necessary. If operation generates mist or fumes use ventilation to keep exposure to airborne contaminants below exposure limits.
- EYE PROTECTION: Chemical splash, goggles recommended.
- PROTECTIVE CLOTHING: Clothing to minimize skin contact, long sleeves, boots or shoes. For casual contact PVC gloves are suitable, for prolonged contact use neoprene or nitrile gloves.

10. GENERAL INFORMATION ON EK-35

- EK-35 is applied “neat” without mixing with any other substance
- Weather (rain) is not a consideration in the application of EK-35 as it will not “wash” away
- The application of EK-35.by sprayer should be applied in one continuous operation to ensure a consistent finish.
- Multiple passes may be required to achieve a desired finish without run-off and excessive puddling of excess product.
- EK-35 can be re-worked without re-application.

11. APPLICATION OF EK-35

The application of EK-35 will be performed in accordance with the Site Services Work Package: *Placing Crush and EK-35 on the Airstrip*. This application is in accordance with the application amount as determined by the vendor of the product, and utilizing truck-mounted rented application equipment supplied by them (Midwest industrial Supply, Inc.). The vendor is to provide instructions on how to use the application equipment safely and effectively. All employees involved in handling or applying the EK-35 are to read the MSDS for the product.

Monitoring of application will be conducted by the on site quality control consultant identified in the Site Services work package to verify and adjust as needed the correct rate and volume of application . A daily log of application of EK-35 will be maintained including the location applied (ie: sector or descriptive road section)

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

12. SPILL CLEAN-UP

Clean-up of spilled EK-35 should be performed with inert sorbents. Soiled sorbent material can be burned in the incinerator. All spills must be reported immediately to the Environmental Department.

13. ASSOCIATED DOCUMENTS

Environmental Guideline for Dust Suppression – Nunavut Department of Sustainable Development

14. REQUIRED RECORDS

Application records: date, location, volumes, operator, etc.

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

MSDS

http://www.midwestind.com/products-services/dust-control-products/ek35-dustcontrol/ek35-brochure-msds.html

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

MATERIAL SAFETY DATA SHEET

EK35®
Synthetic Organic Dust Control®

Midwest Dust Control

SECTION I — IDENTIFICATION OF SUBSTANCE/PREPARATION AND COMPANY/ UNDERTAKING

TRADE NAME: EK35® Synthetic Organic Dust Control®
CHEMICAL NAME: Isoalkane and Binder System
SYNONYMS: Dust Retardant and Stabilization Agent
CHEMICAL FAMILY: Formulated Isoalkand and Binder (Patents #7,081,270 and #7,074,266)
CAS REGISTRY NO.: Product A Blend - No Number Assigned

SECTION II — COMPOSITION/INFORMATION ON INGREDIENTS

NAME	%	CAS REG NO.
Severely hydrotreated, high viscosity synthetic iso-alkane	30 - 70%	Non-hazardous
Carboxylic Acids (fatty acids)	30 - 70%	Non-hazardous

SECTION III — HAZARDS IDENTIFICATION

Synthetic Isoalkane May be irritating to breathing passages upon excessive heating, otherwise this product is essentially non-hazardous
Mist 8 hour TLV-TWA = 5mg/m3 (ACGIH)

SECTION IV — FIRST AID MEASURES

EYES: Flush eyes with flowing water at least 15 minutes, get medical attention. Do not use any eye ointment. Remove contact lenses.
INHALATION: Move subject to fresh air. If victim is not breathing perform artificial respiration. Administer oxygen if available. Keep victim warm and at rest. Seek medical attention as soon as possible.
SKIN: Flush with large amount of water or wash with soap and water. Seek medical attention if irritation persists.
INGESTION: Do NOT induce vomiting because of aspiration into the lungs. EK35® has a laxative effect and will be eliminated quickly. Seek medical attention.

NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

NOTE TO PHYSICIAN: Monitor respiratory distress. If cough or difficulty breathing develops, evaluate for respiratory tract irritation, bronchitis or pneumonitis.

SECTION V — FIRE FIGHTING MEASURES

FLAMMABILITY: Nonflammable, but will burn on prolonged exposure to flame or high temperature.
FLASH POINT (TEST METHOD): >284°F (>140°C), open cup, ASTM D92, Cleveland
AUTOIGNITION TEMPERATURE: >455°F (235°C)
UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not cut, weld, heat or drill or pressurize empty container.
MATERIALS TO AVOID: Low fire hazard. Must be moderately heated before ignition will occur. Avoid contact with strong oxidizing agents, including peroxides, chlorine and strong acids.
PRODUCTS OF COMBUSTION: Carbon dioxide, carbon monoxide, smoke and irritating fumes as products of incomplete combustion.

EXTINGUISHING MEDIA AND INSTRUCTIONS: If a tank, railcar of a tank truck is involved in a fire isolate for 0.5 miles in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn itself out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of the tank due to fire. Cool containing vessels with water spray in order to prevent pressure build-up, autoignition or explosion.
SMALL FIRE: use dry chemicals, foam, CO_2
LARGE FIRE: use water spray, fog or foam. For small outdoor fires portable extinguishers may be used and SCBA (self-contained breathing apparatus) may not be required. For all indoor fires and any significant outdoor fires SCBA is required. Respiratory and eye protection are required for fire fighting personnel.

SECTION VI - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: ELIMINATE ALL IGNITION SOURCES. Stop leak without risk and contain spill. Absorb with inert absorbent materials such as clay or sand. Place absorbent materials in closed metal containers for later disposal or burn in appropriate facility. Keep spills out of sewers and open bodies of water.

SECTION VII — HANDLING AND STORAGE

STORAGE: Keep in a cool, dry, ventilated storage area and in closed containers. Keep away from sources of ignition and oxidizing materials.
HANDLING: KEEP AWAY FROM SOURCES OF IGNITION. Do not reuse empty containers. Practice good hygiene. Wash hands before eating. Launder clothes before reuse. Discard saturated leather goods.

SECTION VIII — EXPOSURE CONTROL/PERSONAL PROTECTION

RESPIRATORY PROTECTION: None required if good ventilation is maintained. If mist is generated by heating or spraying use a NIOSH approved organic respirator with a mist filter.
VENTILATION: Under normal handling conditions special ventilation is not necessary. If operation generates mist or fumes use ventilation to keep exposure to airborne contaminants below exposure limits.
EYE PROTECTION: Chemical splash, goggles recommended.
PROTECTIVE CLOTHING: Clothing to minimize skin contact, long sleeves, boots or shoes. For casual contact PVC gloves are suitable, for prolonged contact use neoprene or nitrile gloves.

Midwest Industrial Supply, Inc.
1101 3rd Street Southeast
Canton, Ohio 44711
www.midwestind.com

Tel 330.456.3121
Fax 330.456.3247
Emergency Phone Number 1.800.321.0699

MIDWEST

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

SECTION IX — PHYSICAL AND CHEMICAL PROPERTIES

BOILING/MELTING POINT @ 760 mm Hg:	>493°F (>256°C)
VAPOR PRESSURE mm Hg @ 20°C:	Negligible at ambient temperature
SPECIFIC GRAVITY OR BULK DENSITY:	0.85 - 0.95
SOLUBILITY IN WATER:	Insoluble in water
APPEARANCE:	Viscous, brown-colored liquid
ODOR:	None
POUR POINT:	<15°F (<9°C)
VISCOSITY (Brookfield):	150 - 250 cps @ 20°C 550 - 650 cps @ 0°C 750 - 850 cps @ -5°C
pH:	N/A, not an aqueous solution or emulsion
ACIDITY:	None
ALKILINITY:	None

SECTION X — STABILITY AND REACTIVITY

STABILITY:	Stable under normal handling conditions. Stable stored at temperatures between -40°F and +180°F.
CHEMICAL INCOMPATIBILITY:	Can react with strong organic oxidizing materials.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide, smoke, hydrocarbons and irritating fumes.
HAZARDOUS POLYMERIZATION:	Does not occur under normal industrial conditions.
CONDITIONS TO AVOID:	Excessive heat and flame.
CORROSIVE TO METAL:	No

SECTION XI — TOXICOLOGICAL INFORMATION

EFFECTS OF OVEREXPOSURE

INHALATION:	Inhalation is highly unlikely. However prolonged or repeated inhalation of fumes or mists may cause irritation to the respiratory tract. Product deposits in lungs may lead to fibrosis and reduce pulmonary function.
SKIN:	It is not a skin irritant. However, prolonged or repeated contact may cause skin irritation, dermatitis or oil acne.
EYES:	Prolonged or repeated contact may be irritating to eyes. Will not cause permanent damage.
INGESTION:	Relatively non toxic to digestive tract.
MUTAGENIC:	Mutagenic activity test are negative toward: Salmonella Typhimurium, Salmonella-Eschrichia coli and Chinese Hamster ovary.
REPRODUCTIVE TOXICITY:	Based on data to date it does not pose a reproductive risk.
CARCINOGENICITY:	Based on studies to date EK35® is not known to be carcinogenic to humans. • ACGIH (mists) - Based on available human studies, exposure to product mist alone has not demonstrated to cause human effects at levels below 5 mg/m3. • IARC - IARC group 3; cannot be classified as to carcinogenicity to humans. • NTP - No studies were found. • IRIS - No studies were found. • OSHA - OSHA PEL (8 hour TWA) = 5 mg/m3 for synthetic product mists.

SECTION XII — ECOLOGICAL INFORMATION

EK35® Aquatic Toxicity Test Results

- Methods for Measuring the Acute Toxicity of Effluents and Receiving Water to Freshwater and Marine Organisms, EPA/600/4-90/027F.
- Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002.
- Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Marine and Estuarine Organisms, EPA/600/4-91/003.

SECTION XII — ECOLOGICAL INFORMATION - continued

	Ceriodaphnia dubia	Fathead minnow	Americamysis bahia	Rainbow trout
ACUTE/SURVIVAL (mg/L)				
LC50	>1000	271	111	--
NOEC	1000	125	63	--
LOEC	>1000	250	130	--
CHRONIC/SURVIVAL (mg/L)				
LC50	>1000	97.3	58.6	23
NOEC	500	31.3	25	10
LOEC	1000	62.5	50	20
CHRONIC/GROWTH/ REPRODUCTION (mg/L)				
LC50	375	114	>50	>10
NOEC	250	31.3	50	10
LOEC	500	62.5	>50	>10

See attached test results:

1. ABC Laboratories, Inc. Americamysis bahia, Fathead minnow, Ceriodaphnia dubia.
2. ABC Laboratories, Inc. Rainbow trout

LC50 - Lethal Concentration, 50%
NOEC - No Observable Effects Concentration
LOEC - Lowest Observable Effects Concentration

The LC50 level is the lethal concentration of the chemical under test that kills 50% of the test organisms in the specified amount of time. According to the EPA-540-9-85-006, suggested toxicity criteria for materials are listed in the table below. Comparison of the EPA guidelines to the LC50 of EK35® show a range of toxicity from practically non-toxic to moderately toxic depending on the species and the exposure time. When used and applied properly EK35® is not known to pose any ecological problems.

SECTION XIII — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:	Consult your local authorities for regulations. Preferred waste management: recycle or reuse, incinerate with energy recovery, disposal in a licensed facility. Disposal facility should be compliant with state, local and federal government regulations.

SECTION XIV — TRANSPORTATION INFORMATION

D.O.T. PROPER SHIPPING NAME (49CFR172.101):	None
HAZARDOUS SUBSTANCE (40CFR116):	N/A
REPORTABLE QUANTITY (RQ):	N/A
D.O.T. HAZARD CLASSIFICATION (49CFR172.101):	Non-regulated
D.O.T. PLACARDS REQUIRED:	None
POISON CONSTITUENT (49CFR173.343):	N/A
BILL OF LADING DESCRIPTION:	dust control agent
C NO.:	N/A
UN/NA CODE:	N/A

SECTION XV— REGULATORY INFORMATION

EPA SARA Title III hazard class:	None
OSHA HCS hazard class:	Non-OSHA hazardous (29CFR1910.1200)
EPA SARA Title III Section 313(40CFR372) Toxic Chemicals present in quantities greater than the "de minimus" level are:	None
Canadian WHMIS:	This product is not a "controlled product" under the Canadian Workplace Hazardous Material Information System (WHMIS)
Canadian DSL:	All components of this product are listed on DSL (Domestic Substance List).
California Proposition 65:	Does not contain any Prop 65 chemicals.

SECTION XVI — OTHER INFORMATION

ABBREVIATIONS AND SYMBOLS:

N.D. - Not Determined
N.A. - Not Applicable
N.T. - Not Tested
< - Less Than
> - Greater Than

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MIDWEST

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

EK-35 Application Log Sheet

Date	Location	Volume Applied (L)	Operator Name	Comments

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

REVISION RECORD

Version	*Date*	*Description*	*Author*	*Signature*
	April 10/10	Draft	J. Turk	
	May 15/10	Draft Revision – include notification to regulator prior to use Section 6. Application Log Sheet	J. Turk	
	June 2/10	Updates to Environmental Controls	J. Turk	

SOP ACTIVATION RECORD
THIS SOP WILL BE IN EFFECT ON THE ISSUE DATE APPROVED BY THE UNDERSIGNED.

POSITION	NAME	SIGNATURE	DATE OF ACCEPTANCE

Standard Operating Procedure: Handling, Storage and Application of Dust Suppressant EK-35

STANDARD OPERATING PROCEDURE REVIEW AND ACKNOWLEDGEMENT

By signing off on this Standard Operating Procedure, (SOP) you acknowledge that you have reviewed, understand and accept the terms of this SOP.

First Name (Print)	Last Name (Print)	Company	Position	Date	Signature	HBML Representative