

TYPE A WATER LICENSE 2AM-JER1119 Jericho Diamond Mine

Monthly Report

Month being reported: May 2012

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1 INTRODUCTION

This Monthly Report is prepared as per Part B, Section 2 of the Type A Water License 2AM-JER1119, made effective by the Nunavut Water Board (NWB) on February 07 2012, to Shear Diamonds (Nunavut) Corp., a wholly owned subsidiary of Shear Diamonds Ltd.

Shear Diamonds Ltd. applied for a renewal application in February 2011. The NWB held a public hearing related to that application on November 30, 2011 and December 1, 2011 in License 2AM-JER1119 replaced 2AM-JER0410, which was originally granted to Benachee Resources Inc.

2 MONTHLY AND ANNUAL QUANTITIES OF WATER OBTAINED FROM CARAT LAKE, LYNNE LAKE AND CONTWOYTO LAKE (Schedule B, Item 1a)

Freshwater was drawn from Carat Lake for domestic water use in the accommodations complex, offices, maintenance complex, dust control, airstrip compaction and the operation of the process plant. Table 2.1 provides the monthly and annual quantity of freshwater used. A total of 944.0m³ of water was drawn from Carat Lake since the beginning of 2012.

There has not been a winter road to the Jericho site since 2008. Accordingly, no water has been obtained from either Lynne Lake or Contwoyto Lake since that time.

Table 2.1- CARAT LAKE - Freshwater Use January - May 2012 (m3)

MONTH	Roadway and Airstrip Use	DOMESTIC WATER USE	PROCESS PLANT	CUMULATIVE TOTALS
January		71.1	50.0	121.1
February		57.6	11.0	68.6
March		90.0	21.0	110.0
April		109.6	79.0	188.6
May	148.9	186.0	119.8	454.7
June		N/A	N/A	N/A
July		N/A	N/A	N/A
August		N/A	N/A	N/A
September		N/A	N/A	N/A
October		N/A	N/A	N/A
November		N/A	N/A	N/A
December		N/A	N/A	N/A
ANNUAL TOTALS	148.9	514.3	280.8	944.0

MONTHLY AND ANNUAL QUANTITIES OF RECYCLED WATER 3 (Schedule B, Item 1b)

While operating under Temporary Closure, no recycled water was used from the PKCA. Water pumped from Carat Lake into the Process Plant does get recycled within the Plant for a length of time prior to being discharged into the PKCA.

4 MONTHLY AND ANNUAL QUANTITIES OF SOLIDS IN TONNES AND LIQUID FRACTIONS OF EACH WASTE STREAM DISCHARGED TO THE PROCESSED KIMBERLITE CONTAINMNET AREA (Schedule B. Item 1c)

East Sump

No water was pumped to or from the east sump in 2012, as of the end May 2012.

Sewage Treatment Plant

Refer to section 7.

Open Pit

Refer to section 6.

Oztek Unit

Refer to Section 9.

Seepage

The seepage survey began May 29 and lasted until June 6. The results of the survey will be reported as soon as it is completed.

During Temporary Closure activities, production of fine PK was, and will continue to be limited to a small amount produced during the evaluation of the process plant using stockpiled material. Cell A has sufficient capacity for this evaluation work.

5 MONTHLY AND ANNUAL QUANTITIES OF ANY DISCHARGES FROM THE PROCESSED KIMBERLITE CONTAINMENT AREA (Schedule B, Item 1d)

Discharge from the PKCA has not taken place yet in 2012.

A total of 0 m³ of water was discharged from the PKCA into the receiving environment.

Table 5.1 - Volume of Supernatant Discharge to Receiving Environment

`MONTH	VOLUME DISCHARGED
	FROM THE PKCA (m ³)
January	0
February	0
March	0
April	0
May	0
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
ANNUAL TOTAL	0

MONTHLY AND ANNUAL QUANTITIES OF MINE PIT WATER AND 6 DYKE SEEPAGE PUMPED FROM ALL FACILITIES TO THE PROCESSED **KIMBERLITE CONTAINMENT AREA (Schedule B, Item 1e)**

Table 6.1 summarizes the monthly and annual volumes of water pumped from the Jericho pit. As of May 2012, there has not been any volume pumped from the pit into the PKCA.

Table 6.1 - Quantities in m³ of pit water pumped to the PKCA

MONTH	VOLUME PUMPED FROM PIT TO PKCA (m ³)
January	0
February	0
March	0
April	0
May	0
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
TOTAL VOLUME PUMPED (m ³)	0

7 MONTHLY AND ANNUAL QUANTITIES OF TREATED EFFLUENT DISCHARGED FROM THE WASTEWATER TREATMENT FACILITY (Schedule B, Item 1f)

Table 7.1 summarizes the monthly and annual volumes of treated effluent discharged from the Wastewater Treatment Facility – Sewage Treatment Plant (STP). All discharges of treated effluent from the STP in 2012 were deposited into the PKCA. A total of 314.8m³ of treated sewage effluent was discharged from the STP to the PKCA in 2012 as of May.

Table 7.1 – Quantities in m^3 discharged from Waste Water Treatment Facility to PKCA

MONTH	Volume Treated – WWTP Treated Effluent (m³)
January	48.0
February	17.4
March	70.5
April	112.9
May	66.0
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
TOTAL VOLUME PUMPED (m³)	314.8

Daily values can be found in Appendix B

MONTHLY AND ANNUAL QUANTITIES OF SEWAGE SOLIDS 8 REMOVED FROM THE WASTEOWATER TREATMENT FACILITY (Schedule B, Item 1g)

The removal of sewage solids from the Wastewater Treatment Facility has not been required on a regular basis while operating under Temporary Closure conditions. Settled solids were removed from the aeration tank as required based on camp population in order to maintain efficient functioning of the Sewage Treatment Plant. Settled solids are collected using a vacuum truck and deposited into a designated basin located on the till dump. Table 8.1 summarizes the volume of sewage solids removed from the Wastewater Treatment Facility. A total of 0 m³ of settled sludge was deposited into the designated basin on the till dump in May of 2012.

Table 8.1 Sewage Solids Removed January - December 2012

MONTH	SEWAGE SOLIDS REMOVED (m³)
January	0
February	0
March	0
April	4.5
May	0
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
TOTAL	3.5

9 MONTHLY AND ANNUAL QUANTITIES OF TREATED EFFLUENT DISCHARGED FROM THE HYDROCARBON CONTACT WATER **REMEDIATION UNIT (Schedule B, Item 1h)**

In 2011 Shear Diamonds Ltd. assisted in the design of a mobile hydrocarbon contact water remediation unit (Oztek). This unit is used to treat water that is pumped from secondary containment areas. Prior to discharge to the PKCA, water is treated, sampled and pumped to the PKCA. Table 9.1 summarizes the volumes of treated and discharged from the Oztek to the PKCA. So far, there has not been any remediated water processed by the Oztek in 2012.

Volumes of treated effluent discharged from Oztek to PKCA (m³) Table 9.1

MONTH	VOLUMES OF EFFLUENT DISCHARGED (m³)
January	0
February	0
March	0
April	0
Мау	0
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
TOTAL	0

10 ANNUAL QUANTITIES OF OVERBURDEN, WASTE ROCK, ORE STOCKPILED, OR PROCESSED STORED (Schedule B, Item 1i)

The Jericho mine site continues to be operated under Temporary Closure conditions. There have been no materials mined, stockpiled or stored since Tahera operations ceased in 2008.

11 SUMMARY OF CONSTRUCTION ACTIVITIES AND UPDATED MINE PLAN (Schedule B, Item 1k)

The Jericho mine site has not had any construction activities in May 2012. No construction activities took place and there have been no changes to the Mine Plan originally filed by Tahera Diamond Corporation.

12 SUMMARY OF ANY MODIFICATION AND/OR MAJOR MAINTENANCE WORK AND/OR DEMOLITION WORK AND ANY ASSOCIATED **STRUCTURES (Schedule B, Item 11)**

No modifications, major maintenance work or demolition work took place in March.

13 LIST AND DESCRIPTION OF ALL UNAUTHORIZED DISCHARGES AND SPILLS (Schedule B, Item 1t)

The kitchen lift station was broken for approximately one week from April 26 to May 2. During that time the lift station was emptied using a vac truck. The contents of the truck were deposited into a designated basin located on the till dump where the STP sludge is also deposited. During this time a total volume of 4.4 m3 was removed from the kitchen lift station.

A total of 7 spills were reported in May 2012. All spill reports can be found in Appendix C.

OUTLINE OF SPILL TRAINING EXERCISES CARRIED OUT BY THE 14 LICENSEE (Schedule B, Item 1u)

No spill training exercises were carried out by Shear Diamonds Ltd. May 2012. While operating under Temporary Closure conditions, the number of people on site is limited and all potential training opportunities were not conducive with flight logistics in and out of site. The decision was made to hold off on training until such time as more people were available to participate making it more cost effective and productive.

15 SITE INSPECTIONS

There were no site inspections in May 2012 at the Jericho Mine Site.

16 **SITE VISITORS**

William Liu from EBA engineering was on site from May 24th to June 7th to complete a seepage survey for the site. The report will be available as soon as the report is complete.

17 NON-COMPLIANCES

May had some compliance issues. Ongoing issues include improper waste sorting, handling, disposal and incineration.

Water testing analysis for SWQ-01 effluent and influent, SWQ-12 carat lake pump house, and dustfall air quality can be found in Appendix D.

Under ice sampling for the Aquatic Effects Monitoring Program was completed from May 12 to May 17. The initial results that were received from the laboratory were erroneous and are currently being double checked. The results will be made available as soon as the discrepancies can be explained.

Monthly Site Inspections can be found in Appendix E.

APPENDIX A: Daily values of water drawn from Carat Lake pump house for Domestic Use

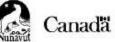
5.	- .		5 11 1/1 / 611
Date	Time	Meter Reading (m3)a	Daily Volume (m3)b
01-May-12	6:15 AM	22879.8	0
02-May-12	7:00 AM	22879.8	0
03-May-12	6:30 AM	22881.5	1.7
04-May-12	6:45 AM	22890.9	9.4
05-May-12	6:30 AM	22890.9	0
06-May-12	6:30 AM	22890.9	0
07-May-12	6:30 AM	22890.9	0
08-May-12	6:15 AM	22908	17.1
09-May-12	6:30 AM	22908	0
10-May-12	7:45 AM	22908	13
11-May-12	7:30 AM	22921	15.2
12-May-12	6:15 AM	22936.2	0
13-May-12	6:37 AM	22936.2	18.7
14-May-12	6:15 AM	22954.9	0
15-May-12	6:54 AM	22954.9	10.7
16-May-12	6:30 AM	22965.6	9.8
17-May-12	6:30 AM	22975.4	0
18-May-12	6:30 AM	22975.4	12.7
19-May-12	6:15 AM	22988.1	0
20-May-12	6:30 AM	22988.1	10.3
21-May-12	6:15 AM	22998.4	23.4
22-May-12	7:00 AM	23021.8	0
23-May-12	6:15 AM	23021.8	11.1
24-May-12	6:45 AM	23032.9	0
25-May-12	6:00 AM	23032.9	18.6
26-May-12	6:15 AM	23051.5	0
27-May-12	7:25 AM	23051.5	0
28-May-12	6:45 AM	23051.5	0
29-May-12	6:15 AM	23051.5	0
30-May-12	6:30 AM	23051.5	14.3
31-May-12	8:30 AM	23065.8	0

APPENDIX B: Daily quantities removed from the Waste Water Treatment Facility to Cell A of the PKCA

Date	Time	Meter Reading	Daily Discharge (L)
1-May-12	6:40	41,132	2
2-May-12	7:15	41,134	2
3-May-12	7:15	41,136	2
4-May-12	7:15	41,138	1 RESET TO 0
5-May-12		41,139	648
6-May-12	7:45	648	2,949
7-May-12	8:05	3,597	4,159
8-May-12	7:00	7,756	5,730
9-May-12	7:50	12,786	13,232
10-May-12	8:00	26,018	4,255
11-May-12	8:30	30,273	11,574
12-May-12	7:00	41,847	6,736
13-May-12	8:45	48,583	9,203
14-May-12	7:38	57,786	165
15-May-12	8:30	57,951	2,923
16-May-12	7:20	60,874	5,124
17-May-12	7:15	65,998	4,313
18-May-12	7:10	70,311	7,099
19-May-12	7:25	77,410	6,270
20-May-12	7:19	83,680	4,787
21-May-12	7:26	88,467	6,070
22-May-12	9:45	94,530	455
23-May-12	7:00	94,985	861
24-May-12	7:00	95,846	3,686
25-May-12	8:00	99,532	939
26-May-12	9:30	100,471	493

27-May-12	8:45	100,964	336
28-May-12	7:30	101,300	5873
31-May-12	7:15	107,173	0





NT-NU SPILL REPORT

MT-NU 24-HOUR SPILL REPORT LINE

TEL: (887) 920-8130 FAX: (867) 873-6924 FMAIL: spills@gov.nt.ca.

REPORT LINE USE ONLY REPORT DATE: MONTH - DAY - YEAR XORIGINAL SPILL REPORT, REPORT NUMBER 6:05pm May 1, 2012 12-158 OCCURRENCE DATE: MONTH - DAY - YEAR OCCURRENCE TIME UPDATE # TO THE ORIGINAL SPILL REPORT В May 1, 2012 1:15pm WATER LICENCE NUMBER (IF APPLICABLE) LAND USE PERMIT NUMBER (IF APPLICABLE) C 2AM-JER1119 KTL 311 C015 REGION BEOBRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION D Jericho Mine Site □ NWT X NUNAVUT TI ADJACENT JURISDICTION OR OCEAN LONGITUDE ATITUDE E DEGREES 66 SECONDS 00 DEGREES 111 MINUTES 27 SECONDS 00 01 MINUTES RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION Suite 220, 6 Adelaide St. Toronto ON M5C 1H6 Shear Diamonds CONTRACTOR ADDRESS OR OFFICE LOCATION ANY CONTRACTOR INVOLVED G no QUANTITY IN LITRES, KILDGRAMS OR CUBIC METRES U.N. NUMBER PRODUCT SPILLED 1202 ~1001 diesel SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITHES, KILOGRAMS OR CUBIC METRES U.N. NUMBER n/a n/a none AREA OF CONTAMINATION IN SQUARE METRES SPILL CAUSE SPILL SOURCE 1 fuel hose person slipped while fueling 4 DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT FACTORS AFFECTING SPILL OR RECOVERY none n/a ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAININATED MATERIALS this spill is being reported as required under the conditions in Part H, Section 8(b) of Shear-Diamonds Water Board (NWB) Licence 2AM-JER1119 pursuant to the Nunavut waters and Nunavut Surface Rights Tribunal Act, as required by the Government of Nunavut's Environmental Protection Act paragraph 5.1(a) and as required by Environment Canada's Storage Tank Systems For Petroleum Products and Allied Petroleum Products Regulations section 41 pursuant to paragraph 212(1)(a) of K the Canadian Environmental Protection Act, 1999 this incident occurred at 1:15pm, approximately 500m east of Carat Lake -while a fuel truck was being filled with diesel from storage tank EC-00016028, the worker who was standing on top of the truck slipped and almost fell, the fuel hose became disconnected from the truck and sprayed diesel on the worker and the truck -diesel that dripped onto the snow from the truck was immediately shovelled into a nearby berm REPORTED TO SPILL LINE BY **EMPLOYER** LOCATION GALLING FROM TELEPHONE L **Environmental Tech** 778-372-2723 Shear Diamonds Jericho Mine Site Wes Atchison ALTERNATE CONTACT ALTERNATE TELEPHONE **EMPLOYER** ANY ALTERNATE CONTACT POSITION 778-372-2726 Jericho Mine Site Site Supervisor Jim Kane **Shear Diamonds** REPORT LINE USE ONLY LOCATION CALLED RÉPORT LINE NUMBER EMPLOYER RECEIVED AT SPILL LINE BY POSITION (867) 920-8130 VELLOWKNIFE, NT STATION OPERATOR FILE STATUS III OPEN III CLOSED LEAD AGENCY (LEC LLCG) LLGNWT LLGN LLILA LLINAC LLNES LLTC SIGNIFICANCE I MINOR II MAJOR II UNKNOWN CONTACT TIME CONTACT NAME AGENCY LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY

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HIRD SUPPORT AGENCY





OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: splils@gov.nt.ca

				327			HEPORT LINE USE ONLY	
Α	y 2, 2012			7:05		XORIGINAL SPILL REPORT. OR	REPORT NUMBER	
В	May 1, 2012	1 – DAY – YEAR	5:10 ₁		PENCETIME PM	O THE ORIGINAL SPILL REPORT	12-159	
С	KTL 311 C015		Nebu i	2AM-JER1119				
D	GEOGRAPHIC PLACE NAME Jericho Mine Site LATITUDE	TON PROM NAMED	LOCATION	REGION INWY X NUN LONGITUDE	AVUT DIADJACENT JURISDICTION	V OR OCEAN		
Ε	DEGREES 66	MINUTES 01	0000000	0	DEGREES 111		SECONDS 00	
F	Shear Diamonds				oness on office Loc delaide St. E. T	oronto, ON M5C 1H6		
G	ANY CONTRACTOR INVOLVE NO	D	n/a	R ADDRESS	OR OFFICE LOCATION			
	PRODUCT SPILLED Hydraulic Fluid		QUANTITY IN	LITPES, KI	OGRAMS OR CUBIC ME	TRES U.N. NUMBER 3082		
Н	SECOND PRODUCT SPILLED	(IF APPLICABLE)	QUANTITY IN	LITRES, KI	OGRAMS OR CUBIC ME	TRES U.N. NUMBER n/a		
1	SPILL SOURCE bobcat	и;= и;= - «:	SPILL CAUSE equipme		lfunction	AREA OF CONTAMINATION II	N BOUARE METRES	
J	FACTORS AFFECTING SPILL NONE	OR RECOVERY	n/a	Y ASSISTA	NCE REQUIRED	n/a	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMEN	
K	Protection Act paragraph 5.1(a) -this incident occurred around -while operating a bobcat near trail of fluid being left behind th -the operator immediately brou -the contaminated gravel was s waste transfer area		e south wa bobcat at the bobca	II of the	e processing p ors and called	lant the operator notic the mechanic to make	repairs	
L	REPORTED TO SPILL LINE 9	POSITION Environmen	ntal Tech	Shea	ER ar Diamonds	Jericho Mine Site	778-372-2723	
М	ANY ALTERNATE CONTACT Chris Morton	VP Operation	ons	Shea	er Diamonds	Jericho Mine Site	778-372-2726	
			REPORT L	NE USE C	NLY			
N	RECEIVED AT SPILL LINE BY POSITION		i			LOCATION GALLED YELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130	
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AGENCY CONTACT NAME			CON	HACT TIME	PEMARKS			
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FIRS	ST SUPPORT AGENCY			_				
SEC	OND SUPPORT AGENCY							
THIF	ID SUPPORT AGENCY							

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NT-NU 24-HOUR SPILL REPORT LINE

TEL. (867) 920-8130 FAX: (867) 873-6924 EMAIL: sp8ls@gov.nt.ca

REPORT LINE USE ONLY

-						-	MEP LIVE COLUMN
A	REPORT DATE: MONTH DAY May 5, 2012		2:00		CORIGINAL SPILL RE	PORT.	REPORT NUMBER
В	3		9:00	RENCE TIME am	TO THE ORIGINAL SP	LL REPORT	12-169
С	LAND USE PERMIT NUMBER (IF KTL 311 C015	- Innoverse	WATER LICENCE NUMBER (IF APPLICABLE) 2AM-JER1119				
D	GEOGRAPHIC PLACE NAME OF Jericho Mine Site	DISTANCE AND DIRECTION FR	ADM NAMED LOCATION	D LOCATION REGION CHINY MINUNAUUT CHAD/ACENT JURISDICTION OR OCEAN			
E	LATITUDE			LONGITUDE			
_	DEGREES OF MINUTES OF SECONDS OF			DEGREES 111	милтев 27	s	EDDNDS 00
F	Shear Diamonds		Suite 220, 6 A	delaide St. E. 1	Toronto ON M50	1H6	Company of the Compan
G	NO CONTRACTOR INVOLVED	r	n/a	S OR OFFICE LOGATION			
Н	PRODUCT SPILLED OIL	343	uantity in litres, ki 1 5L	LOGRAMS OR CUBIC ME	3082	155.02.11	
п	SECOND PRODUCT SPILLED (IF	The state of the s	UANTITY IN LITRES, KI 1/a	LOGRAMS OR CUBIC ME	TRES U.N. NUMBER n/a		
1	oil cube	1013	eak		AREA OF CONTA	MINATION IN	SQUAREMETRES
J	FACTORS AFFECTING SPILL OF NOTICE	50100	ESCRIBE ANY ASSISTA 1/a	ANY ASSISTANCE REQUIRED		HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT	
K	Protection Act para- this incident was a -an oil cube locate -a tarp that was pla was some oil that s -the oil cube was b with a loader and p	discovered at 9:00s d outside of genera aced beneath the o seeped through an prought inside the t	ator #4 of the il cube during d out of the ta ruck shop an	powerhouse ware it's initial use are are are are are are are are are ar	as slowly leakir stopped most o t 15L	ng oil of the sp	
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOY		LOCATION CALLING F	1000 E	TELEPHONE
_	Wes Atchison	Environmental 1	ecn Shea	r Diamonds	Jericho Mine	2770775	778-372-2723
M		VP Operations		er Diamonds	Jericho Mine	Site	778-372-2726
			REPORT LINE USE O			- 6	
N	N RECEIVED AT SPILL LINE BY POSITION		EMPLOY	EH	LOCATION CALLED	100	REPORT LINE NUMBER
LEAD AGENCY LEG LOCK LIGAMIT DON LA LINA			Dra			/ELLOW/ONFE, NT (967) 920-9130	
200			100	WEIGANCE DIMINOR DI		FILE STATI	JS II OPEN II CLOSED
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LEAD	3 AGENCY						
FIRS	T SUPPORT AGENCY						
SEC	OND SUPPORT AGENCY	2.00					
THIB	D SUPPORT AGENCY						

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Canada NT-NU SPILL REPORT OIL, DASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

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REPORT LINE USE ONLY

						7.4			HEFTOTTI LINE WILL COME
Α	05/12/2012	EAR		17:00		□) OF	ORIGINAL SPILL REPO	ORN,	REPORT NUMBER
В	Ongoing			оссиня N/A	ENGE TIME	TO	UPDATE # THE ORIGINAL SPILL	REPORT	
С	LAND USE PERMIT NUMBER (IF A KTL311C015				WATER LICENCE N 2AM-JER11		APPLICABLE)		
D	Jericho Mine Site	ISTANCE AND DIRECTION	ON FROM NAMED L	OCATION	REGION DAWT (X)	NUNAVUT	D ADJACENT JURE	SOCTION	OR OCEAN
Ε	DEGREES 66 MI	NUTES 01	SECONDS 00	8 1	DEGREES 111		MINUTES 27	55	CONDS 00
F	RESPONSIBLE PARTY OR VESSE PKCA	LNAME	Jericho M		DRESS OR OFFICE ite	LOCATION			
G	ANY CONTRACTOR INVOLVED N/A		N/A	ADORESS	OR OFFICE LOCATI	ICN			
н	PRODUCT SPILLED Fine Processed Kin	berlite	Unknown		DORAMS OR CUBIC	METRES	U.N. NUMBER		
П	SECOND PRODUCT SPILLED (IF A	PPLICABLE)	N/A	TRES, KILO	OGRAMS OR CUBIC	METRES	U.N. NUMBER		
1	PKCA		Wind dis	persio	n		See append		SQUARE METRES
J	FACTORS AFFECTING SPILL OR F See summaries and		Not at thi				TBD	ONS, PROF	ERTY OR ENVIRONMENT
K	Protection Act para	grapn 3.1(a).							
L	AEPORTED TO SPEL LINE BY Allison Armstrong	Posmon Conn	. V. S. 1 A -5	EMPLOYE N/A	ER.	1.77%	CATION CALLING FRO	K0770	ELEPHONE 778-372-2750
M	ANY ALTERNATE CONTACT Steve Willcott	POSITION General Man		EMPLOYE	r Diamonds	AL	TERNATE CONTACT	A	778-372-2753
		L	REPORT LIN	E USE ON	ILY				
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYE	F		CATION CALLED		IEPORT LINE NUMBER 967) 920-8130
LEA	AGENCY DEC DCGG DGNA	1	C DINEB DTC	SIGNI	FICANCE MINOR	R = MAJO	A 🗆 UNKNOWN		/S □ OPEN □ CLOSED
AGE	NCY CO	NTAGT NAME		CONT	ACT TIME		REMARKS		
LEAL	AGENCY								
FIRS	T SUPPORT AGENCY								
SEC	OND SUPPORT AGENCY	0.00			ette leveri i			000	
THIE	D SUPPORT AGENCY			A more					

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Canada NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca.

	45			- 33		-60			RE	PORT LINE USE ONLY
Α	REPORT DATE: MONTH 05/12/2012	H-DAY-YEAR		REP(17:5	ORTTIME .	□ OR	IGINAL SPILL REP	ORT, OR	REPO	ORTNUMBER
В	OCCURRENCE DATE: 1 05/12/2012	MONTH-DAY-YEA	4R	OCC 01:0	CURRENCE TIME 00	C) UPC	DATE# EORIGINAL SPILL	REPORT		SITAN
С	LAND USE PERMIT NU	MBER (IF APPLICAB	LE)		WATER LICENCE 2AM-JER1119		(IF APPLICABLE)	0		
D	GEOGRAPHIC PLACE! Jericho Mine Site		E AND DIRECTION FROM	THE NAME	DLOCATION		REGION	AVUT 🗆 AC	JACE	VT JURISDICTION OR
Е	LATITUDE DEGREES 66 MINUTE	es 01 seconds 00)		LONGITUDE DEGREES 111	MINUTES	27 SECONDS 0	10		
F	RESPONSIBLE PARTY Fuel Truck	OR VESSEL NAME			E PARTY ADDRESS iamond Mine	OR OFFIC	CE LOCATION			
G	ANY CONTRACTOR IN	VOLVED	177	CONTRACTO	OR ADDRESS OR OF	FICE LOC	ATION	*2		
Н	PRODUCT SPILLED Diesel			LIANTITY IN 5 - 10 litres	LITRES, KILOGRAM 5	IS OR CUE	BIC METRES	U.N. NUME N/A	BER	
11	SECOND PRODUCT SP N/A	PILLED (IF APPLICAE	ASS. 1.5	JUANTITY IN	LITRES, KILOGRAM	IS OR CUE	BIC METRES	U.N. NUME N/A	BER	
I	SPILL SOURCE Overflow on the T	ank of the Fuel	255	SPILL CAUSE Bumpy roa	: ad caused spill	from	AREA OF 0.5m X		ATION I	N SQUARE METRES
J	FACTORS AFFECTING Hard ground, still			SESCRIBE AN	NY ASSISTANCE RE	QUIRED	HAZARDS N/A	TO PERSON	NS, PR	OPERTY OR ENVIRONMENT
K	of Nunavut's Envi The material that y road to the Hazard	ironmental Prot was scraped up dous Waste Tra	ection Act paragraph	oh 5.1(a). mistakenl ared today	ly taken to the P y. The contamir	hase II I	Fuel Farm. Th	nis is not p	permi	by the Government tted. The snow on the is and taken to the
L	REPORTED TO SPILL L Allison Armstrong		POSITION Environment	1.50	MPLOYER Shear Diamodns		OCATION CALLIN Jericho	G FROM	*	TELEPHONE 778-372-2752
M	ANY ALTERNATE CON Steve Willcott	TACT	POSITION General Manager	100	MPLOYER Shear Diamonds		ALTERNATE CONT Jericho	ACTLOCATI	ION	ALTERNATE TELEPHONE 778-372-2753
REPO	RTLINEUSEONLY			20					-7-	
N	RECEIVED AT SPILL LI	NE BY	POSITION Station operator	100	EMPLOYER	1.75	OCATION CALLET Yellowknife, N			REPORT LINE NUMBER (867) 920-8130
LEAD	AGENCY DEC DCCG	GNWT GN	☐ ILA ☐ INAC ☐ NEB	□тс s	SIGNIFICANCE M	MINOR	MAJOR UNKN	IOWN F	LE ST	atus Open Closed
AGEN	CY	CONTACT NAME		c	CONTACT TIME	F	REMARKS			j
LEAD	AGENCY									
FIRST	SUPPORT AGENCY									
SECO	ND SUPPORT AGENCY									
THIRD	SUPPORT AGENCY									,

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THIRD SUPPORT AGENCY



Canada NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130 FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca REPORT LINE USE ONLY REPORT DATE: MONTH-DAY-YEAR REPORT TIME REPORT NUMBER May 24, 2012 8:15am IZI ORIGINAL SPILL REPORT, OR 12-201 □ UPDATE# OCCURRENCE TIME OCCURRENCE DATE MONTH - DAY - YEAR В TO THE ORIGINAL SPILL REPORT May 22, 2012 7:30pm WATER LICENCE NUMBER (IF APPLICABLE) LAND USE PERMIT NUMBER (IF APPLICABLE) C 2AM-JER1119 KTL 311 C013 GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM THE NAMED LOCATION REGION D □ NAVE ST NUNAVUE □ ADJACENT JURISDICTION OR Jericho Mine Site LONGITUDE E DEGREES 66 MINUTES 01 SECONDS 00 DEGREES 111 MINUTES 27 SECONDS 00 RESPONSIBLE PARTY OR VESSEL NAME RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION F Shear Diamonds Suite 220, 6 Adelaide St. Toronto ON M5C 1H6 CONTRACTOR ADDRESS OR OFFICE LOCATION ANY CONTRACTOR INVOLVED G 155 Bristol Avenue Yellowknife, NT X1A 2R3 First Air PRODUCT SPILLED QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES U.N. NUMBER Diesel 100 1202 H SECOND PRODUCT SPILLED (IF APPLICABLE) QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES U.N. NUMBER n/a n/a none SPILL CALISE AREA OF CONTAMINATION IN SQUARE METRES SPILL SOURCE valve left open after disconnected Fuel hose FACTORS AFFECTING SPILL OR RECOVERY DESCRIBE ANY ASSISTANCE REQUIRED HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT J none n/a n/a ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAINNATED MATERIALS This spill is being reported as required under the conditions in Part H, Section 8(b) of Shear Diamonds Water Board (NWB) License 2AM-JER1119 pursuant to the nunavut waters and Nunavut Surface Rights Tribunal Act, as required by the Government of Nunavut's Environmental Protection Petroleum Products and Allied Petroleum Products Regulations section 41 pursuant to paragraph 212(1)(a) of the Canadian Environmental Protection Act, 1999. This incident occurred appoximately 500m east of Carat Lake. After a Herc from First Air was finished pumping diesel into storage tank EC-00016028, the site's fuel line was disconnected from the pump in order to bleed the line, this was done improperly and diesel ended up spilling from the line. The diesel was cleaned up and the contaminated ground will be brought to the HWTA and put in drums. REPORTED TO SPILL LINE BY EMPLOYER LOCATION CALLING FROM TELEPHONE POSITION L Wes Atchison Environmental Tech. Shear Diamonds Jericho Mine Site 778-372-2723 ALTERNATE CONTACT LOCATION ALTERNATE TELEPHONE ANY ALTERNATE CONTACT POSITION **EMPLOYER** M Allison Armstrong Environment Shear Diamonds Jericho Mine Site 778-372-2753 REPORT LINE USE ONLY RECEIVED AT SPILL LINE BY POSITION FMPLOYER LOCATION CALLED REPORT LINE NUMBER N (867) 920-8130 Station operator Yellowknife, NT LEAD AGENCY ☐ EC ☐ CCG ☐ GNWT ☐ GN ☐ ILA ☐ INAC ☐ NEB ☐ TC SIGNIFICANCE ☐ MINOR ☐ MAJOR ☐ UNKNOWN FILE STATUS TOPEN TO CLOSED AGENCY CONTACT NAME CONTACT TIME REMARKS LEAD AGENCY FIRST SUPPORT AGENCY SECOND SUPPORT AGENCY

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NT-NU SPILL REPORT DR. GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spitts@gov.m.ca

REPORT LINE USE ONLY

A	REPORT DATE MONTH-DAY-YEA May 30, 2012		7:30	om	ORIGINAL SPILL REPORT,	перопт пимвен 12-217
	OCCURRENCE DATE: MONTH - DA May 30, 2012	Y – YEAR	4:00		TO THE ORIGINAL SPILL REPORT	
С	LAND LIST PERMIT NUMBER (IF AF KTL 311 C015			2AM-JER1119		
D	GEOGRAPHIC PLACE NAME OR DI Jericho Mine Site	STANCE AND DIRECTION FROM	NAMED LOCATION	CANT KNOW	WUT DIADUACENT JURISOICTION	N OR OCEAN
E	Profession and Company of the Compan	ures 01 secon		DEGREES 111		SECONDS 00
F	RESPONSIBLE PARTY OR VESSEL Shear Diamonds	6 A	delaide St.	E, Suite 220 T	oronto, ON M5C 1H6	
G	NO CONTRACTOR INVOLVED	n/a				
	PRODUCT SPILLED raw sewage	40	L	LOGRAMS OR CUBIC ME	n/a	
Н	SECONO PRODUCT SPILLED (F A	n/a	l	LOGRAMS OR CUBIC ME	n/a	
1	pipe line	dis	CAUSE Connected		AREA OF CONTAMINATION I	
J	FACTORS AFFECTING SPILL OR F	n/a			HAZAFIDS TO PERSONS, PR n/a SE OF SPILLED PRODUCT AND CON	
K	sewage treatment p	oreak in one of the d plant n was immediately s	onnections that down a	in the line run and the connec	ning from the main lift ting piece was replace nd brought to the HWT	d A
L	Wes Atchison	POSITION Environmental Te	ech She	wer ar Diamonds	Jericho Mine Site	778-372-2723
М	ANY ALTERNATE CONTACT Andrew Uyarrai	Posmon Site Services Mn	gr She	wen ar Diamonds	Jericho Mine Site	778-372-2726
			EPORT I INF LISE			REPORT LINE NUMBER
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMPLO	V/ER	LOCATION CALLED YELLOWKNIPE, NT	(967) 925-6130
LEA	AD ABENCY DEC DOOR COM	WT I ON I ILA DINAC DIN	EB DTC SI	SNIFICANCE () MINOR I	MAJOR THUNKNOWN FILE ST	
AGE	ENCY CO	INTACT NAME	co	INTACT TIME	REMARKS	ATUS O OPEN CICLOSEO
UEA	ND AGENCY			and the same		ATUS O OPEN O OLOISEO
				11016		WTUS CLOSED
	ST SUPPORT AGENCY					ATUS () OPEN () CLOSED
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APPENDIX D: Raw Data from ALS and Maxxam water testing **Effluent**

ALS		Sample ID	JER-AEM-01 EFFLUENT	Maxxam ID	DM3082
6/25/2012		ALS ID	L1145687-3	Sampling Date	22/05/2012 17:45
Multiple Work Orders		Date Sampled	5/10/2012 6:45:00 AM	COC Number	A058335
Analyte	Units	LOR	Water		JER-SWQ-01 EFFLUENT
				Physical Properties	
Hardness (as CaCO3)	mg/L	0.5	28.2	Н	6.34
Temperature	Degree C	7-	25	Hardness (CaCO3)	N/A
Total Suspended Solids	mg/L	ю	15	Total Hardness (CaCO3)	45.4
Total Dissolved Solids	mg/L	10	361	Total Organic Carbon (C)	15
Turbidity	OLN	0.1	8.67	Total Inorganic Carbon (C)	1.3
Acidity (as CaCO3)	mg/L	Ŋ	23.1	Total Dissolved Solids	270
Alkalinity, Total (as CaCO3)	mg/L	5	12.9	Total Suspended Solids	39

Ammonia, Total (as N)	mg/L	0.005	3.84	Turbidity		21
Bicarbonate (HCO3)	mg/L	2	15.8	Conductivity		440
Carbonate (CO3)	mg/L	2	<5.0	Dissolved Hardness (CaCO3)		42.2
Chloride (CI)	mg/L	0.5	58.4	Total Dissolved Solids		270
Conductivity (EC)	uS/cm	0.2	559	Anions		
Fluoride (F)	mg/L	0.05	0.061	Alkalinity (PP as CaCO3)	<0.50	
Hardness (as CaCO3)	mg/L	n/a	27	Alkalinity (Total as CaCO3)		7.0
Hydroxide (OH)	mg/L	5	<5.0	Carbonate (CO3)	<0.50	
Ion Balance	%	n/a	104	Bicarbonate (HCO3)		8.6
Nitrate and Nitrite (as N)	mg/L	900.0	23.5	Hydroxide (OH)	<0.50	
Nitrate (as N)	mg/L	0.006	23.4	Dissolved Sulphate (SO4)		27
Nitrite (as N)	mg/L	0.002	0.1	Dissolved Chloride (CI)		46
Total Kjeldahl Nitrogen	mg/L	0.05	7.74	lon Balance		06.0
Hd	Hd	0.1	6.92	Dissolved Nitrate (NO3)		8
Orthophosphate- Dissolved (as P)	mg/L	0.001	8.21	Nitrate plus Nitrite		19

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				(2)		
Phosphorus (P)-Total Dissolved	mg/L	0.001	8.39	Dissolved Nitrite (NO2)	C	0.079
Phosphorus (P)-Total	mg/L	0.001	9.31	Orthophosphate (P)	7.1(2)	
TDS (Calculated)	mg/L	n/a	309	Total Ammonia (N)	3.4 (2)	
Sulfate (SO4)	mg/L	0.05	36	Total Phosphorus (P)	8.2 (2)	
Total Inorganic Carbon	mg/L	-	<1.0	Dissolved Nitrite (N)	J	0.024
Total Organic Carbon	mg/L	-	28.1	Dissolved Nitrate (N)	19(2)	
Mercury (Hg)-Total	mg/L	0.00005	<0.000050	Demand Parameters		
Aluminum (AI)-Total	mg/L	0.0002	0.136	Biochemical Oxygen Demand		16
Antimony (Sb)-Total	mg/L	0.000005	0.00234	Total Metals by ICPMS		
Arsenic (As)-Total	mg/L	0.00002	0.00068	Total Aluminum (Al)		410
Barium (Ba)-Total	mg/L	0.00002	0.00506	Total Antimony (Sb)		1.73
Beryllium (Be)-Total	mg/L	0.000002	<0.000010 *	Total Arsenic (As)		0.685
Bismuth (Bi)-Total	mg/L	0.00001	0.00207	Total Barium (Ba)		16.1

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Boron (B)-Total	mg/L	0.005	0.979	Total Beryllium (Be)	0.030
Cadmium (Cd)-Total	mg/L	0.000005	0.000089	Total Bismuth (Bi)	2.51
Calcium (Ca)-Total	mg/L	0.03	7.36	Total Boron (B)	388
Cesium (Cs)-Total	mg/L	0.000005	0.000068	Total Cadmium (Cd)	0.182
Chromium (Cr)-Total	mg/L	0.00005	0.00089	Total Chromium (Cr)	1.10
Cobalt (Co)-Total	mg/L	0.000005	0.000623	Total Cobalt (Co)	0.601
Copper (Cu)-Total	mg/L	0.00005	0.278	Total Copper (Cu)	170
Gallium (Ga)-Total	mg/L	0.00005	<0.00025 *	Total Iron (Fe)	1050
Iron (Fe)-Total	mg/L	0.01	0.693	Total Lead (Pb)	1.86
Lead (Pb)-Total	mg/L	0.000005	0.00104	Total Lithium (Li)	103
Lithium (Li)-Total	mg/L	0.0002	0.146	Total Manganese (Mn)	65.5
Magnesium (Mg)-Total	mg/L	0.03	2.74	Total Molybdenum (Mo)	0.713
Manganese (Mn)-Total	mg/L	0.000005	0.0387	Total Nickel (Ni)	12.9
Molybdenum (Mo)-Total	mg/L	0.00001	0.00318	Total Selenium (Se)	0.374
Nickel (Ni)-Total	mg/L	0.00005	0.0199	Total Silicon (Si)	2110
Phosphorus (P)-Total	mg/L	0.05	9.31	Total Silver (Ag) 0	0.0386

Potassium (K)-Total	mg/L	0.05	26.1	Total Strontium (Sr)	21.7
Rhenium (Re)-Total	mg/L	0.000005	<0.000025 *	Total Thallium (TI)	0.0094
Rubidium (Rb)-Total	mg/L	0.000005	0.0211	Total Tin (Sn)	0.27
Selenium (Se)-Total	mg/L	0.00004	0.00042	Total Titanium (Ti)	1.49
Silicon (Si)-Total	mg/L	0.05	3.76	Total Uranium (U)	0.251
Silver (Ag)-Total	mg/L	0.000005	0.000073	Total Vanadium (V)	0.62
Sodium (Na)-Total	mg/L	0.2	80.4	Total Zinc (Zn)	1300
Strontium (Sr)-Total	mg/L	0.00001	0.0108	Total Zirconium (Zr)	0.56
Tellurium (Te)-Total	mg/L	0.00001	<0.000050 *	Total Calcium (Ca)	11.7
Thallium (TI)-Total	mg/L	0.000001	0.000012	Total Magnesium (Mg)	3.90
Thorium (Th)-Total	mg/L	0.000005	<0.000025 *	Total Potassium (K)	24.2
Tin (Sn)-Total	mg/L	0.00001	0.000501	Total Sodium (Na)	41.8
Titanium (Ti)-Total	mg/L	0.00005	0.0008	Total Sulphur (S) <10	
Tungsten (W)-Total	mg/L	0.00001	0.000182	Dissolved Metals by ICPMS	
Uranium (U)-Total	mg/L	0.000001	0.0000962	Dissolved Aluminum (AI)	23.7
Vanadium (V)-Total	mg/L	0.00001	0.000927	Dissolved	1.81

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				Antimony (Sb)	
Yttrium (Y)-Total	mg/L	0.000005	0.000101	Dissolved Arsenic (As) 0.633	533
Zinc (Zn)-Total	mg/L	0.0001	1.02	Dissolved Barium (Ba) 4.C	4.04
Zirconium (Zr)-Total	mg/L	0.00001	0.00111	Dissolved Beryllium (Be) 0.024	024
Aluminum (AI)- Dissolved	mg/L	0.0002	0.0417	Dissolved Bismuth (Bi) 1.5	1.53
Antimony (Sb)- Dissolved	mg/L	0.000005	0.00237	Dissolved Boron (B) 38	381
Arsenic (As)-Dissolved	mg/L	0.00002	0.000741	Dissolved Cadmium (Cd) 0.0963	963
Barium (Ba)-Dissolved	mg/L	0.00002	0.00226	Dissolved Chromium (Cr) 0.4	0.43
Beryllium (Be)- Dissolved	mg/L	0.000002	0.0000035	Dissolved Cobalt (Co) 0.505	205
Bismuth (Bi)-Dissolved	mg/L	0.000001	0.00165	Dissolved Copper (Cu) 63	63.5
Boron (B)-Dissolved	mg/L	0.005	0.986	Dissolved Iron (Fe)	184
Cadmium (Cd)- Dissolved	mg/L	0.000005	0.0000999	Dissolved Lead (Pb) 0.0890	390
Calcium (Ca)-Dissolved	mg/L	0.03	7.04 *	Dissolved Lithium (Li) 10	102

Cesium (Cs)-Dissolved	mg/L	0.000005	0.0000664	Dissolved Manganese (Mn)		8.09
Chromium (Cr)- Dissolved	mg/L	0.00005	0.000779	Dissolved Molybdenum (Mo) 1	1.45 (1)	
Cobalt (Co)-Dissolved	mg/L	0.000005	0.000604	Dissolved Nickel (Ni)		4.11
Copper (Cu)-Dissolved	mg/L	0.00005	0.256	Dissolved Selenium (Se)		0.283
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.000050	Dissolved Silicon (Si)		2010
Iron (Fe)-Dissolved	mg/L	0.01	0.397	Dissolved Silver (Ag)		0.0164
Lead (Pb)-Dissolved	mg/L	0.000005	0.000556	Dissolved Strontium (Sr)		19.9
Lithium (Li)-Dissolved	mg/L	0.0002	0.148	Dissolved Thallium (TI)		0.0055
Magnesium (Mg)- Dissolved	mg/L	0.03	2.57 *		<0.20	
Manganese (Mn)- Dissolved	mg/L	0.000005	0.04	Dissolved Titanium (Ti)		0.83
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050	Dissolved Uranium (U)		0.0676
Molybdenum (Mo)- Dissolved	mg/L	0.00001	0.00311	Dissolved Vanadium (V)		0.45
Nickel (Ni)-Dissolved	mg/L	0.00005	0.0203	Dissolved Zinc (Zn)		1030

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Phosphorus (P)- Dissolved	mg/L	0.05	8.84	Dissolved Zirconium (Zr)		0.37
Potassium (K)- Dissolved	mg/L	0.05	24.5 *	Dissolved Calcium (Ca)		11.0
Rhenium (Re)- Dissolved	mg/L	0.000005	<0.0000050	Dissolved Magnesium (Mg)		3.58
Rubidium (Rb)- Dissolved	mg/L	0.000005	0.0195	Dissolved Potassium (K)		24.4
Selenium (Se)- Dissolved	mg/L	0.00004	0.00041	Dissolved Sodium (Na)		39.9
Silicon (Si)-Dissolved	mg/L	90.0	3.54	Dissolved Sulphur (S)	<10	
Silver (Ag)-Dissolved	T/6ш	90000000	0.0000647			
Sodium (Na)-Dissolved	mg/L	0.2	76.3 *	Dissolved Mercury (Hg)	<0.0020	
Strontium (Sr)- Dissolved	mg/L	0.00001	0.00999	Total Mercury (Hg)	J	0.0024
Tellurium (Te)- Dissolved	mg/L	0.00001	<0.000010			
Thallium (TI)-Dissolved	mg/L	0.000001	0.0000058			
Tin (Sn)-Dissolved	mg/L	0.00001	0.000531			
Titanium (Ti)-Dissolved	mg/L	0.00005	0.000303			
Tungsten (W)- Dissolved	mg/L	0.00001	0.000186			
Uranium (U)-Dissolved	mg/L	0.000001	0.0000496			
Vanadium (V)- Dissolved	mg/L	0.00001	0.000913			
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000653			

Zinc (Zn)-Dissolved	mg/L	0.0001	0.936
Zirconium (Zr)- Dissolved	T/bm	0.00001	0.00098
Biochemical Oxygen Demand	mg/L	2	15.6

<u>Influent</u>

ALS		Sample ID	JER-AEM-01 INFLUENT	Maxxam ID		DM3081	
6/25/2012		ALS ID	L1145687-2	Sampling Date		22/05/2012	12
Multiple Work Orders		Date Sampled	5/10/2012 6:45:00 AM	COC Number		A058335	
Analyte	Units	LOR	Water		UNITS	JER-SWQ-01 INFLUENT	
				Physical Properties			
Hardness (as CaCO3)	mg/L	0.5	1	Hd	N/A	7.6	7.60
Temperature	Degree C	1	25	Hardness (CaCO3)	mg/L		29
Total Suspended Solids	mg/L	8	312	Total Hardness (CaCO3)	mg/L	A/A	
Total Dissolved Solids	mg/L	10	182	Total Organic Carbon (C)	mg/L	85 (2)	
Turbidity	UTN	0.1	132	Total Inorganic Carbon (C)	mg/L		37
Acidity (as CaCO3)	mg/L	5	57.4	Total Dissolved Solids	mg/L	35	280

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Alkalinity, Total (as CaCO3)	mg/L	2	98.5	Total Suspended Solids	mg/L	420 (3)	
Ammonia, Total (as N)	mg/L	0.005	19.8	Turbidity	UTN		170
Bicarbonate (HCO3)	mg/L	5	120	Conductivity	nS/cm		610
Carbonate (CO3)	mg/L	5	<5.0	Dissolved Hardness (CaCO3)	mg/L	A/A	
Chloride (CI)	mg/L	0.5	24.9	Total Dissolved Solids	mg/L	260 (3)	
Conductivity (EC)	uS/cm	0.2	318	Anions			
Fluoride (F)	mg/L	0.05	<0.50 *	Alkalinity (PP as CaCO3)	mg/L	<0.50	
Hardness (as CaCO3)	mg/L	n/a	16.1	Alkalinity (Total as CaCO3)	mg/L		170
Hydroxide (OH)	mg/L	5	<5.0	Carbonate (CO3)	mg/L	<0.50	
Ion Balance	%	n/a	112 *	Bicarbonate (HCO3)	mg/L		210
Nitrate and Nitrite (as N)	mg/L	900.0	0.0085	Hydroxide (OH)	mg/L	<0.50	
Nitrate (as N)	mg/L	900.0	<0.0063	Dissolved Sulphate (SO4)	mg/L		2.4
Nitrite (as N)	mg/L	0.002	0.0078	Dissolved Chloride (CI)	mg/L		4
Total Kjeldahl Nitrogen	mg/L	0.05	37.8	Ion Balance	N/A		0.98
Hd	Hd	0.1	7.63	Dissolved Nitrate (NO3)	mg/L		0.62
Orthophosphate- Dissolved (as P)	mg/L	0.001	2.37	Nitrate plus Nitrite (N)	mg/L		0.14
Phosphorus (P)-Total Dissolved	mg/L	0.001	2.6	Dissolved Nitrite (NO2)	mg/L	<0.20	
Phosphorus (P)-Total	mg/L	0.001	4.44	Orthophosphate (P)	mg/L	7.8 (2)	
TDS (Calculated)	mg/L	n/a	125	Total Ammonia (N)	mg/L	30(2)	

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Total Phosphorus (P) mg/L 16 (2)	Dissolved Nitrite (N) mg/L <0.060 (4)	Dissolved Nitrate (N) mg/L 0.14 (4)	Demand Parameters	Biochemical Oxygen Demand mg/L 390 (1)			
1.15	23.4	57.8	3.84	1.59	10.3	23.7	216
0.05	-	_	0.03	0.03	0.05	0.2	2
mg/L	mg/L	mg/L	mg/L	T/Bш	mg/L	T/Bш	J/bm
Sulfate (SO4)	Total Inorganic Carbon	Total Organic Carbon	Calcium (Ca)- Dissolved	Magnesium (Mg)- Dissolved	Potassium (K)- Dissolved	Sodium (Na)- Dissolved	Biochemical Oxygen

SWQ-12 Carat lake pump house

				ı						Γ	
JER-AEM-12 (CARAT INTAKE)	L1145687-1	5/10/2012 7:15:00 AM	Water	85'9	25	8	12	1.4	-	-	<5.0
Sample ID	ALS ID	Date Sampled	LOR	0.5	1	3	10	0.1	8	5	5
			Units	mg/L	Degree C	mg/L	mg/L	NTU	mg	Вш	mg/L
ALS	6/25/2012	Multiple Work Orders	Analyte	Hardness (as CaCO3)	Temperature	Total Suspended Solids	Total Dissolved Solids	Turbidity	Total Dustfall (mg/100cm2/30days)	Total Fixed Dustfall (mg/100cm2/30days)	Acidity (as CaCO3)

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Alkalinity, Total (as CaCO3)	mg/L	5	5.7
Ammonia, Total (as N)	mg/L	0.005	0.0228
Bicarbonate (HCO3)	mg/L	2	6.9
Carbonate (CO3)	mg/L	5	<5.0
Chloride (CI)	mg/L	0.5	<0.50
Conductivity (EC)	mS/cm	0.2	17.4
Fluoride (F)	mg/L	0.05	<0.050
Hardness (as CaCO3)	mg/L	n/a	6.1
Hydroxide (OH)	mg/L	5	<5.0
Ion Balance	%	n/a	Low EC
Nitrate and Nitrite (as N)	mg/L	900.0	0.0387
Nitrate (as N)	mg/L	900.0	0.0387
Nitrite (as N)	mg/L	0.002	<0.0020
Total Kjeldahl Nitrogen	mg/L	0.05	1
PH	рН	0.1	7.07
Orthophosphate-Dissolved (as P)	mg/L	0.001	<0.0010
Phosphorus (P)-Total Dissolved	mg/L	0.001	<0.0010
Phosphorus (P)-Total	mg/L	0.001	<0.0010
TDS (Calculated)	mg/L	n/a	7.2
Sulfate (SO4)	mg/L	0.05	1.03
Total Inorganic Carbon	mg/L	1	1.2
Total Organic Carbon	mg/L	1	4
Aluminum (AI)-Total	mg/dm2.day	0.000016	1
Antimony (Sb)-Total	mg/dm2.day	0.0000016	1
Arsenic (As)-Total	mg/dm2.day	0.0000016	1
Barium (Ba)-Total	mg/dm2.day	0.00000078	1
Beryllium (Be)-Total	mg/dm2.day	0.0000078	1
Bismuth (Bi)-Total	mg/dm2.day	0.0000078	1
Boron (B)-Total	mg/dm2.day	0.00016	1
Cadmium (Cd)-Total	mg/dm2.day	0.00000078	1
Calcium (Ca)-Total	mg/dm2.day	0.00031	1
Chromium (Cr)-Total	mg/dm2.day	0.0000078	1
Cobalt (Co)-Total	mg/dm2.day	0.0000016	1
Copper (Cu)-Total	mg/dm2.day	0.0000016	ı
Iron (Fe)-Total	mg/dm2.day	0.00047	1

Lead (Pb)-Total	mg/dm2.day	0.00000078	-
Lithium (Li)-Total	mg/dm2.day	820000'0	-
Magnesium (Mg)-Total	mg/dm2.day	0.000078	-
Manganese (Mn)-Total	mg/dm2.day	8200000000	-
Molybdenum (Mo)-Total	mg/dm2.day	8200000000	-
Nickel (Ni)-Total	mg/dm2.day	820000000	-
Phosphorus (P)-Total	mg/dm2.day	0.0047	-
Potassium (K)-Total	mg/dm2.day	82000.0	-
Selenium (Se)-Total	mg/dm2.day	0.000016	-
Silicon (Si)-Total	mg/dm2.day	82000.0	-
Silver (Ag)-Total	mg/dm2.day	0.00000016	-
Sodium (Na)-Total	mg/dm2.day	0.00078	-
Strontium (Sr)-Total	mg/dm2.day	0.0000016	-
Thallium (TI)-Total	mg/dm2.day	0.0000016	-
Tin (Sn)-Total	mg/dm2.day	0.0000016	-
Titanium (Ti)-Total	mg/dm2.day	0.00016	-
Uranium (U)-Total	mg/dm2.day	0.00000016	-
Vanadium (V)-Total	mg/dm2.day	0.000016	-
Zinc (Zn)-Total	mg/dm2.day	0.000016	_
Aluminum (AI)-Total	mg/L	0.2	-
Antimony (Sb)-Total	mg/L	0.2	-
Arsenic (As)-Total	mg/L	0.2	-
Barium (Ba)-Total	mg/L	0.01	-
Beryllium (Be)-Total	mg/L	0.005	-
Bismuth (Bi)-Total	mg/L	0.2	-
Boron (B)-Total	mg/L	0.1	-
Cadmium (Cd)-Total	mg/L	0.01	-
Calcium (Ca)-Total	mg/L	9.0	-
Chromium (Cr)-Total	mg/L	0.005	-
Cobalt (Co)-Total	mg/L	0.01	-
Copper (Cu)-Total	mg/L	0.01	-
Iron (Fe)-Total	mg/L	0.01	-
Lead (Pb)-Total	mg/L	0.05	-
Lithium (Li)-Total	mg/L	0.01	-
Magnesium (Mg)-Total	mg/L	0.1	-

Manganese (Mn)-Total	mg/L	0.002	1
Mercury (Hg)-Total	mg/L	0.00005	<0.000050
Molybdenum (Mo)-Total	mg/L	0.03	_
Nickel (Ni)-Total	T/BW	0.05	1
Phosphorus (P)-Total	T/BW	0.1	1
Potassium (K)-Total	T/BW	0.1	_
Selenium (Se)-Total	T/bm	0.2	_
Silicon (Si)-Total	T/BW	0.1	_
Silver (Ag)-Total	T/BW	0.01	_
Sodium (Na)-Total	mg/L	1	-
Strontium (Sr)-Total	mg/L	0.005	_
Sulfur (S)-Total	mg/L	0.5	-
Thallium (TI)-Total	mg/L	0.2	_
Tin (Sn)-Total	mg/L	0.03	_
Titanium (Ti)-Total	mg/L	0.01	_
Vanadium (V)-Total	mg/L	0.005	_
Zinc (Zn)-Total	T/bm	0.005	_
Aluminum (AI)-Total	mg/L	0.0002	0.0134
Antimony (Sb)-Total	T/bm	0.000005	0.0000069
Arsenic (As)-Total	T/BW	0.00002	0.000188
Barium (Ba)-Total	T/bm	0.00002	0.00179
Beryllium (Be)-Total	T/BW	0.000002	0.0000038
Bismuth (Bi)-Total	mg/L	0.000001	0.0000014
Boron (B)-Total	mg/L	0.005	<0.0050
Cadmium (Cd)-Total	T/bm	0.000005	0.0000052
Calcium (Ca)-Total	mg/L	0.03	1.41
Cesium (Cs)-Total	mg/L	0.000005	<0.0000050
Chromium (Cr)-Total	mg/L	0.00005	0.000076
Cobalt (Co)-Total	mg/L	0.000005	0.0000451
Copper (Cu)-Total	mg/L	0.00005	0.00199
Gallium (Ga)-Total	mg/L	0.00005	<0.000050
Iron (Fe)-Total	mg/L	0.01	0.475
Lead (Pb)-Total	mg/L	0.000005	0.000125
Lithium (Li)-Total	mg/L	0.0002	0.00066
Magnesium (Mg)-Total	mg/L	0.03	0.748

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Cobalt (Co)-Dissolved	mg/L	0.000005	0.0000253
Copper (Cu)-Dissolved	mg/L	0.00005	0.00157
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.000050
Iron (Fe)-Dissolved	mg/L	0.01	0.124
Lead (Pb)-Dissolved	mg/L	0.000005	0.000073
Lithium (Li)-Dissolved	mg/L	0.0002	0.00063
Magnesium (Mg)-Dissolved	mg/L	0.03	0.746 *
Manganese (Mn)-Dissolved	mg/L	0.000005	0.0041
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00001	20000.0
Nickel (Ni)-Dissolved	mg/L	0.00005	0.000507
Phosphorus (P)-Dissolved	mg/L	0.05	<0.050
Potassium (K)-Dissolved	mg/L	0.05	* 06:0
Rhenium (Re)-Dissolved	mg/L	0.000005	<0.0000050
Rubidium (Rb)-Dissolved	mg/L	0.000005	0.000818
Selenium (Se)-Dissolved	mg/L	0.00004	<0.000040
Silicon (Si)-Dissolved	mg/L	0.05	0.352
Silver (Ag)-Dissolved	mg/L	0.000005	<0.0000050
Sodium (Na)-Dissolved	mg/L	0.2	0.65 *
Strontium (Sr)-Dissolved	mg/L	0.00001	0.0054
Tellurium (Te)-Dissolved	mg/L	0.00001	<0.000010
Thallium (TI)-Dissolved	mg/L	0.000001	<0.0000010
Thorium (Th)-Dissolved	mg/L	0.000005	0.0000141
Tin (Sn)-Dissolved	mg/L	0.00001	0.000096
Titanium (Ti)-Dissolved	mg/L	0.00005	<0.000050
Tungsten (W)-Dissolved	mg/L	0.00001	<0.000010
Uranium (U)-Dissolved	mg/L	0.000001	0.000153
Vanadium (V)-Dissolved	mg/L	0.00001	0.000022
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000562
Zinc (Zn)-Dissolved	mg/L	0.0001	0.0087
Zirconium (Zr)-Dissolved	mg/L	0.00001	0.000059
Biochemical Oxygen Demand	mg/L	2	<2.0

Dustfalls

		Sample ID	PKDF-S	PKDF-E	PKDF-SE	PKDF-W
		ALS ID	L1148079-1	L1148079-2	L1148079-3	L1148079-4
		Date Sampled	5/15/2012 12:00:00 AM	5/15/2012 12:00:00 AM	5/15/2012 12:00:00 AM	5/15/2012 12:00:00 AM
Analyte	Units	LOR	Dustfall	Dustfall	Dustfall	Dustfall
Total Dustfall (mg/100cm2/30days)	бш	8	27.2	732	37.4	<8.0
Total Fixed Dustfall (mg/100cm2/30days)	бш	9	23.5	701	34.6	<5.0
Aluminum (AI)-Total	mg/dm2.day	0.000016	0.000422	0.00817	0.000402	0.000043
Antimony (Sb)-Total	mg/dm2.day	0.0000016	<0.0000016	<0.0000016	<0.0000016	<0.0000016
Arsenic (As)-Total	mg/dm2.day	0.0000016	<0.0000016	<0.0000016	<0.0000016	<0.0000016
Barium (Ba)-Total	mg/dm2.day	0.00000078	0.0000645	0.000952	0.0000794	0.00000184
Beryllium (Be)-Total	mg/dm2.day	0.0000078	<0.0000078	<0.0000079	<0.0000079	<0.0000079
Bismuth (Bi)-Total	mg/dm2.day	0.0000078	<0.0000078	<0.0000079	<0.0000079	<0.0000079
Boron (B)-Total	mg/dm2.day	0.00016	<0.00016	<0.00016	<0.00016	<0.00016
Cadmium (Cd)-Total	mg/dm2.day	0.00000078	<0.00000078	<0.00000079	<0.00000079	<0.00000079
Calcium (Ca)-Total	mg/dm2.day	0.00031	0.00796	0.0588	0.0102	0.00078
Chromium (Cr)-Total	mg/dm2.day	0.000078	0.0000205	0.000537	0.000022	<0.0000079
Cobalt (Co)-Total	mg/dm2.day	0.0000016	0.0000033	0.0000716	0.0000031	<0.0000016

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Copper (Cu)-Total	mg/dm2.day	0.0000016	0.0000056	0.000057	0.0000039	0.0000054
Iron (Fe)-Total	mg/dm2.day	0.00047	0.0017	0.0368	0.00157	<0.00047
Lead (Pb)-Total	mg/dm2.day	0.00000078	<0.00000078	0.00000873	0.00000081	<0.00000079
Lithium (Li)-Total	mg/dm2.day	0.000078	<0.000078	<0.000079	<0.000079	<0.000079
Magnesium (Mg)- Total	mg/dm2.day	0.000078	0.00662	0.141	0.00603	0.000307
Manganese (Mn)- Total	mg/dm2.day	0.00000078	0.0000366	0.000616	0.0000348	0.00000261
Molybdenum (Mo)- Total	mg/dm2.day	0.00000078	<0.00000078	0.00000109	<0.00000079	<0.00000079
Nickel (Ni)-Total	mg/dm2.day	0.0000078	0.0000799	0.00144	0.0000697	<0.0000079
Phosphorus (P)- Total	mg/dm2.day	0.0047	<0.0047	<0.0047	<0.0047	<0.0047
Potassium (K)-Total	mg/dm2.day	0.00078	<0.00078	0.0034	<0.00079	<0.00079
Selenium (Se)-Total	mg/dm2.day	0.000016	<0.000016	<0.000016	<0.000016	<0.000016
Silicon (Si)-Total	mg/dm2.day	0.00078	0.00492	0.0835	0.00475	<0.00079
Silver (Ag)-Total	mg/dm2.day	0.00000016	<0.00000016	<0.00000016	<0.00000016	<0.00000016
Sodium (Na)-Total	mg/dm2.day	0.00078	<0.00078	0.00081	<0.00079	<0.00079
Strontium (Sr)-Total	mg/dm2.day	0.0000016	0.0000401	0.000344	0.0000477	0.0000028
Thallium (TI)-Total	mg/dm2.day	0.0000016	<0.0000016	<0.0000016	<0.0000016	<0.0000016
Tin (Sn)-Total	mg/dm2.day	0.0000016	<0.0000016	<0.0000016	<0.0000016	<0.0000016
Titanium (Ti)-Total	mg/dm2.day	0.00016	<0.00016	0.00101	<0.00016	<0.00016
Uranium (U)-Total	mg/dm2.day	0.00000016	0.00000072	0.0000145	0.00000062	<0.00000016

Vanadium (V)-Total	mg/dm2.day	0.000016	<0.000016	0.000045	<0.000016	<0.000016
Zinc (Zn)-Total	mg/dm2.day	0.000016	<0.000016	0.000059	<0.000016	0.000099

APPENDIX D: Internal Site Inspections



Shear Diamonds

Internal Inspection Report Form

LUP # N2011C0009

WL # 2AM-JER1119-Type A

Date: May 2, 2012 Inspected By: Wes Atchison

Indicate: A – Acceptable, U – Unacceptable, N/A – Not applicable

Hazardous Materials Storage

Drums and Tanks: Notes – leaks, leaks mitigated, bungs at 9 and 3.

Tank farm	U	There is a leaning tank in the S berm. Flex pipes on tank 11 and
		12 should be replaced.
Vehicle fueling station	Α	Strong evidence of spillage within fuel transfer station, stained
(Inside and outside)		pads and strong odor of diesel. (Photo 1) Some evidence of
		spillage outside vehicle fueling station. An empty drum has
		been placed outside with cover for spill containment.
HWTA	U	Drums and tanks will need to be organized when snow melts.
		(Photo 2)
By Generator	Α	No issues with the tank.
Helicopter Landing	Α	All drums are properly sealed and placed at 9:00-3:00. They
		are all exposed now.
Airport	Α	No leaks present at the airstrip day tanks.
Signage	U	Many of the signs have been knocked down by weather. Will
		need to be replaced during summer months.
MSDS Sheets	Α	Present where needed.
Spill Kits	А	Present where required. We have 2 brand new vehicle spill kits

	in the site services shack

Resp. Party: Enviro/Site Services	Site Manager: Chris Morton	Env tech: Wes Atchison

Secondary Containment:

Notes – leaks, water or ice, breaches, holes, slumping, erosion.

Tank farm	U	Fuel present on the ground. Presents slight issues of dispersion around the tank farm. Contaminated snow stored in phase II. There are many small spills being dumped in these berms. These should be contained in drums or cubes and brought to the HWTA or into the truck shop.
Reclaim Area	А	No issues present.
Vehicle fueling station	А	Spills are frequent here. An empty 45 gallon drum with cover has been placed here to put spills in.
HWTA	U	Damage to berm liner. Slumping and erosion of berm presents a potential containment issue. There is a lot of snow contained within the berm that we may want to remove before it melts.
By Generator	A	Evidence of historical spills. Spill evidence down side of tank. Will need to be remediated once thawed.
Helicopter Landing	A	Snow has been removed from on top of the fuel drums. (Photo 3)
Airport	A	Fuel hoses have been removed from the berm. (Photo 7) There have been small spills within the berm during fueling from hercs. A recent spill that has been reported is being stored in the berm. Will need to be remediated once snow thaws.

Resp. Party: Enviro/Site Services	Site Manager: CM	Env tech: WA

General Notes

Chemical Storage	Α	Chemical storage area is clean and organized.
Signage	Α	Proper signs present to indicate which chemicals are present.

MSDS Sheets	Α	MSDS present .
Spill Kits	Α	Spill kits present. Spill kit at airstrip is buried.

Resp. Party: Enviro	Site Manager: CM	Env tech: WA

Waste Disposal Storage Notes

WWTP	Α	Clean and in working order. Kept well organized.
Incineration Area	U	Issues with storage inside the incineration area: 3 drums full of ash and 2 drums full of miscellaneous waste (Photo 4). 3 drums full of aerosol cans have been placed in the old incinerator. Need to find designated area for ash. Door is in poor condition, does not close properly. Issues with proper waste disposal, action plan is in place.
Landfill	n/a	There isn't currently a landfill on site.

Resp. Party: Enviro/Site Services	Site Manager: CM	Env tech: WA

Truck Shop Notes

Oil Cubes	A	Waste oil cubes have been removed from the shop. There should be an empty one at all times in the shop to pump out grate/sump when it is full.
Waste Oil Traps	А	Waste oil traps are acceptable.
Central Grate	А	Grate is empty.
Oil Burner Stacks	А	Burner is clean again.
Snow beneath oil burners	A	Snow below the stack is has been removed and placed in the PKCA
Waste storage	U	There is still some more cleaning up to do but the situation has improved. Still issues with waste containers. A lot of unlabelled waste. 3 full drums of oil/diesel soaked rags (Photo 5).

Powerhouse Area	U	There was a large diesel spill under genset #3. A 45 gallon
		drum with cover has been placed in the area for spill
		containment, some of the smaller spills in that area have been
		scooped up. There is an oil cube next to generator 4 that
		should be removed

Resp. Party: Enviro/Site Services	Site Manager: CM	Env tech: WA

Water Supply – Carat Lake

Notes – slumping, erosion, siltation.

Pump House	А	No issues present.
Causeway	Α	Slight erosion on north side.
Pumps	Α	Pumps functioning.
Flow Measuring Device	А	All flow meters around site function properly.
Intake	Α	No issues present.
Treatment	A/U	Chlorine analyzer reading 0.00, however, CI readings taken from sinks are between 0.1 and 0.6 for free and total CI.

Resp. Party: Enviro/Site Services	Site Manager: CM	Env tech: WA

East, Southeast, and West Dams. PKCA. Notes – FPK dispersion.

Tire Wall Inspection	А	Tire wall has a large buildup of snow.
FPK (contained within PKCA)	U	FPK should be saturated to mitigate dispersion.
Inspect tundra surrounding dams	U	Shows up on down slopes facing away from the dams. Evidence of FPK as far as 200m past SE dam. Now that snow is starting to melt the black FPK is becoming more and more visible. (Photo 6)

Resp. Party: Shear	Site Manager: CM	Env tech: WA

Drill Sites Notes

Water Sources	n/a	We are not currently drilling.
Drill Site Areas	n/a	We are not currently drilling.
Drill Sumps	n/a	We are not currently drilling.
Erosion	n/a	We are not currently drilling.
Flow Measure Device	n/a	We are not currently drilling.
Debris	n/a	We are not currently drilling.

Resp. Party:	Site Manager: CM	Env tech: WA

General Conditions

Notes

Posting and Signage's	U	Some signs missing or Damaged at the HWTA
Litter around buildings	A	Everyone is being conscientious about bringing their waste inside.
Records and Reporting	Α	Everything has been properly recorded and reported to the proper parties. We recently got some tips for our spill reports.
Proper waste disposal bins in place	Α	Employees need to take a little more care when throwing out waste, just because the correct bin is not in their vicinity it does not mean that any bin can be used for any type of waste. This is a reoccurring problem. We will work on waste management. awareness.

Resp. Party: Enviro	Site Manager: CM	Env tech: WA

PHOTOS

Photo 1 Photo 2





Photo 3



Photo 4



Photo 5



Photo 6



Photo 7





Shear Diamonds

Internal Inspection Report Form

LUP # N2011C0009 KTL311C015 WL # 2AM-JER1119-Type A

Date: May 9, 2012 Inspected By: Wes Atchison Arthur Oniak

Indicate: A – Acceptable, U – Unacceptable, N/A – Not applicable

Hazardous Materials Storage

Drums and Tanks: Notes – leaks, leaks mitigated, bungs at 9 and 3.

Tank farm	U	There is a leaning tank in the S berm. Flex pipes on tank 11 and 12 should be replaced. Some of the supports are looking warped. (Photo 1)
Vehicle fueling station (Inside and outside)	А	Strong evidence of spillage within fuel transfer station, stained pads and strong odor of diesel. Seals may need to be replaced.

HWTA	U	Drums and tanks will need to be organized when snow melts. Snow is starting to melt and flooding the area (Photo 4)
By Generator	А	No issues with the tank.
Helicopter Landing	А	All drums are properly sealed and placed at 9:00-3:00.
Airport	А	No leaks present at the airstrip day tanks.
Signage	U	Many of the signs have been knocked down by weather. Will need to be replaced during summer months.
MSDS Sheets	Α	Present where needed.
Spill Kits	A	Present where required. We have 2 brand new vehicle spill kits in the site services shack.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

Secondary Containment:

Notes – leaks, water or ice, breaches, holes, slumping, erosion.

Tank farm	U	Fuel present on the ground. Contaminated snow, dirt, and now a tarp are stored in phase II. (Photo 3) A lot of water build up.
Reclaim Area	А	No issues present.
Vehicle fueling station	А	Not looking as bad now.
HWTA	U	Damage to berm liner. Slumping and erosion of berm presents a potential containment issue. Melted snow is starting to puddle up.
By Generator	A	Evidence of historical spills. Spill evidence down side of tank. Almost completely full of water. (Photo 2)
Helicopter Landing	А	Rain drain will need to be attached to the berms soom.
Airport	Α	Evidence of spillage. Most of berm is now filled with water. (Photo 6)

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

General Notes

Chemical Storage	А	Chemical storage area is clean and organized.
Signage	А	Proper signs present to indicate which chemicals are present.
MSDS Sheets	А	MSDS present .
Spill Kits	А	Spill kits present. Spill kit at airstrip is buried.

Resp. Party: Enviro	Site Manager:	Env tech: WA

Waste Disposal Storage Notes

WWTP	А	Clean and in working order. Kept well organized.
Incineration Area	U	Issues with storage inside the incineration area: 3 drums full of ash and 2 drums full of miscellaneous waste. Need to find designated area for ash. Door is in poor condition, does not close properly. Issues with proper waste disposal, action plan is in place.
Landfill	n/a	There isn't currently a landfill on site.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech:

Truck Shop Notes

Oil Cubes	A	Waste oil cubes have been removed from the shop. There is a half-filled cube next to the shop that should be brought inside or removed.
Waste Oil Traps	Α	Waste oil traps are acceptable.
Central Grate	Α	Grate was recently emptied (weekend)
Oil Burners Stacks	Α	Burners are running clean.
Snow beneath oil	Α	As snow is melting more and more ash that was deposited is
burners		becoming present.
Waste storage	U	Some unlabeled waste. Shop is a bit full right now to be doing

		much serious floor cleaning. 3 full drums of oil/diesel soaked rags have been removed and are now stored in the other incinerator.
Powerhouse Area	U	Snow is melting around generators exposing many of the smaller historical spills that can be seen in the puddles.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

Water Supply – Carat Lake

Notes – slumping, erosion, siltation.

Pump House	А	No issues present.
Causeway	Α	Slight erosion on north side.
Pumps	Α	Pumps functioning.
Flow Measuring Device	А	All flow meters around site function properly.
Intake	А	No issues present.
Treatment	A/U	Chlorine analyzer still reading 0.00, however, Cl readings taken from sinks are between 0.1 and 0.6 for free and total Cl.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

East, Southeast, and West Dams. PKCA. Notes – FPK dispersion.

Tire Wall Inspection	Α	Tire wall has a large buildup of snow.
FPK (contained within PKCA)	U	FPK should be saturated to mitigate dispersion.
Inspect tundra surrounding dams	U	Shows up on down slopes facing away from the dams. Evidence of FPK as far as 200m past SE dam. Now that snow is starting to melt the black FPK is becoming more and more visible. (Photo 5)

F	T	T
Resp. Party: Shear	Site Manager:	Env tech: WA

Drill Sites Notes

Water Sources	n/a	We are not currently drilling.
Drill Site Areas	n/a	We are not currently drilling.
Drill Sumps	n/a	We are not currently drilling.
Erosion	n/a	We are not currently drilling.
Flow Measure Device	n/a	We are not currently drilling.
Debris	n/a	We are not currently drilling.

Resp. Party:	Site Manager:	Env tech: WA

General Conditions

Notes

Posting and Signage's	U	Some signs missing or Damaged at the HWTA
Litter around buildings	A	As snow is melting much of the waste that was not brought in are becoming visible.
Records and Reporting	A	Everything has been properly recorded and reported to the proper parties. We still need to submit follow ups for the genset spill and the diesel spill at the airport.
Proper waste disposal bins in place	А	An ongoing issue at camp. The recycling program is going very well.

Resp. Party: Enviro	Site Manager:	Env tech: WA

PHOTOS

Photo 1



Photo 2



Photo 3



Photo 4

May 2, 2012

May 9, 2012





Photo 5

May 2, 2012



May 9, 2012



Photo 6

May 2, 2012

May 9, 2012







Shear Diamonds

Internal Inspection Report Form

LUP # N2011C0009 KTL311C015 WL # 2AM-JER1119-Type A

Date: May 18, 2012 Inspected By: Kyle Conway and Jason McCarthy

Indicate: A – Acceptable, U – Unacceptable, N/A – Not applicable

Hazardous Materials Storage

Drums and Tanks: Notes – leaks, leaks mitigated, drums at 9 and 3.

Tank farm	U	There is a leaning tank in the South berm. Flex pipes on tank 10 and 12 should be replaced. Some of the supports appear to be warped.
Vehicle fueling station (Inside and outside)	U	Strong evidence of spillage within fuel transfer station. Stained pads and strong odor of diesel. There is strong evidence of diesel spillage where vehicles refuel. Soil will need to be relocated to HWTA for future remediation (Photo 1). An empty drum has been placed outside with cover for minor spill containment and will be monitored regularly.
HWTA	U	Drums and oil cubes will need to be reorganized. Full and empty drums have been knocked about and some appear to be

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		leaking within the containment berm. Water within berm will need to be treating with both oil/water separator as well as the Oztec water remediation unit. (Photo 2-5)
By Generator	А	No issues with the tank.
Helicopter Landing	A	All drums are properly sealed and placed at 9:00-3:00. Snow has been removed from atop.
Airport	А	No leaks present at the airstrip day tanks or Jet A fuel drums.
Signage	U	Many of the signs have been knocked down by weather. Will need to be repaired or replaced during summer months.
MSDS Sheets	Α	Present where needed.
Spill Kits	A	Present where required. We have 2 brand new vehicle spill kits in the site services shack. Contents of all kits will need to be inspected regularly.

Resp. Party: Enviro/Site Services	Site Manager: Steve Willcott	Env tech: Kyle Conway

Secondary Containment:

Notes – leaks, water or ice, breaches, holes, slumping, erosion.

Tank farm	U	Fuel present on the ground. Contaminated snow stored in phase II has slowly been drummed (Photo 6). There is still a large quantity of contaminated snow that needs to be drummed before freshet, which is imminent. It appears that other small spills have been relocated to the phase I fuel farm. These spills should be drummed and relocated to the HWTA. If there are any questions as to what needs to be done with spills please refer to the Contingency Management Plan, Appendix A or contact Enviro personnel.
Reclaim Area	Α	No issues present.
Vehicle fueling station	Α	Spills are frequent here. An empty 45 gallon drum with cover has been placed here to put minor spills in. This drum will be monitored.
HWTA	U	Damage to berm liner. Slumping and erosion of berm presents a potential containment issue. Snow has begun to melt within the berm which is quite contaminated. Water will need to be pumped out and treated using oil/water separator along with

		the Oztec water remediation unit (Photo 7-8).
By Generator	A	Evidence of historical spills. Water within the berm has melted and will need to be pumped out and treated. There is also a large spill just outside of the berm from manual fuel transfers that will need immediate attention (Photo 9-10).
Helicopter Landing	A	Berm has some ice and snow within. Filters will need to be reassembled and berms will need to be drained when ice melts. Spill kit needs to be dug up.
Airport	A	Fuel hoses have been removed from the berm. Water within berm will need to be pumped out and treated. There are large spills that have appeared where ,annual fuel transfer occurred over the winter. Soil will have to be dug up and relocated to HWTA for future remediation. There is also presence of a previous spill outside of the Wacker genset that will need to be dug up and relocated to the HWTA (Photo 11-13).
Spill Pallets	A	Most of the pill pallets are in good shape. There is one in particular in between the shop and incinerator that should be emptied and relocated to an area with level ground (Photo 16).

Resp. Party: Enviro/Site Services	Site Manager: SW	Env tech: KC

General Notes

Chemical Storage	А	Chemical storage area is clean and organized.
Signage	А	Proper signs present to indicate which chemicals are present.
MSDS Sheets	Α	MSDS present.
Spill Kits	A	Spill kits present where required. Contents of each should be inspected regularly. Spill kit at airstrip is buried and will need to be dug up along with spill kit at lay down area.

Resp. Party: Enviro	Site Manager: SW	Env tech: KC

Waste Disposal Storage Notes

WWTP	Α	Clean and in working order. Kept well organized.
Incineration Area	U	Need to find designated area for ash. Door is in poor condition, does not close properly. A chain and carabineer have been put in place to make sure that door remains closed. Waste disposal around camp has improved significantly however, the shop and process plant are still areas of concern.
Landfill	N/A	Landfill site has yet to be approved.

Resp. Party: Enviro/Site Services	Site Manager: SW	Env tech: KC

Truck Shop Notes

Oil Cubes	А	Waste oil cubes have been removed from the shop. There should be an empty one at all times in the shop to pump out grate/sump when it is full. A spill pallet has been put in place for secondary containment of waste oil cube. There is a number of small spills within the shop that should be absorbed and disposed of appropriately.
Waste Oil Traps	А	Waste oil traps are acceptable however, catchments should be pumped out ASAP as they are close to maximum capacity (Photo 14).
Central Grate	Α	Grate is low.
Oil Burner Stacks	Α	Burner is clean again.
Waste Storage	U	Though there have been major improvements made in the truck shop waste disposal is still an issue. General awareness will need to be improved upon. Enviro department is working towards this and will be addressing the timelines set out in the action plan.
Powerhouse Area	U	There was a large diesel spill under genset #3. A large majority of the fuel was reclaimed however, the contaminated soil under the genset cannot be accessed and will have to be included in final closure and reclamation (Photo 15). A 45 gallon drum with cover has been placed in the area for spill containment. Some of the smaller spills in that area have been scooped up.

Parking Lot	U	Now that the snow has melted there are a number of small
		spills where vehicles and heavy equipment were stored over
		the winter. These will need to be cleaned up ASAP.

Resp. Party: Enviro/Site	Site Manager: SW	Env tech: KC
Services/Mechanics		

Water Supply – Carat Lake

Notes – slumping, erosion, siltation.

Pump House	Α	No issues present.
Causeway	Α	Slight erosion on north side.
Pumps	Α	Pumps functioning.
Flow Measuring Device	А	All flow meters around site function properly.
Intake	Α	No issues present.
Treatment	Α	Chlorine analyzer has been repaired and in functioning well.

Resp. Party: Enviro/Site Services	Site Manager: SW	Env tech: KC

East, Southeast, and West Dams. PKCA.

Notes – FPK dispersion.

Tire Wall Inspection	А	No issues present.
FPK (contained within PKCA)	U	FPK should be saturated to mitigate dispersion.
Inspect tundra surrounding dams	U	Shows up on down slopes facing away from the dams. Evidence of FPK as far as 200m past SE dam. Now that snow is starting to melt the black FPK is becoming more and more visible. Reports have been submitted to the appropriate regulators and open communication of mitigation measures has been established. FPK relocation commenced yesterday and is making a difference. (Photo 17-18)

Resp. Party: Enviro/Site Services	Site Manager: SW	Env tech: KC

Drill Sites Notes

Water Sources	n/a	We are not currently drilling.
Drill Site Areas	n/a	We are not currently drilling.
Drill Sumps	n/a	We are not currently drilling.
Erosion	n/a	We are not currently drilling.
Flow Measure Device	n/a	We are not currently drilling.
Debris	n/a	We are not currently drilling.

Resp. Party:	Site Manager: SW	Env tech: KC

General Conditions

Notes

Posting and Signage's	U	Some signs missing or Damaged at the HWTA and around site which will need to be repaired or replaced.
Litter around buildings	A	Everyone is being conscientious about bringing their waste inside. There are still cigarette butts in concentrated in specific areas. This has been addressed and butt receptacles are in place.
Records and Reporting	А	Everything has been properly recorded and reported to the appropriate parties.
Proper waste disposal bins in place	A	People need to be a little more conscientious when disposing of any waste. Proper receptacles are in place and labeled however, not all of the waste items are making it into the correct locations. General awareness needs to be reiterated.

Resp. Party: Enviro/Site Services	Site Manager: SW	Env tech: KC

The Environmental department would like to propose a spring clean-up day on each shift in co-ordination with all site personnel. Now that freshet is occurring there are some areas being revealed that could use some attention and TLC.

PHOTOS

Photo 1



Photo



Photo 3



Photo 4



Photo 5 Photo 6





Photo 7



Photo 8



Photo 9



Photo 10



Photo 11 Photo 12





Photo 13



Photo 14



Photo 15



Photo 16



Photo 17 Photo 18





Photo 19





Shear Diamonds

Internal Inspection Report Form

LUP # N2011C0009 KTL311C015

WL # 2AM-JER1119-Type A

Date: May 28, 2012 Inspected By: Wes Atchison Jeff

Indicate: A – Acceptable, U – Unacceptable, N/A – Not applicable

Hazardous Materials Storage

Drums and Tanks:

Notes – leaks, leaks mitigated, drums at 9 and 3.

Tank farm	U	There is a leaning tank in the South berm. Flex pipes on tank 11 and 12 should be replaced. Some of the supports appear to be warped.
Vehicle fueling station (Inside and outside)	U	Strong smell of diesel within fuel transfer station. Fresh pads have been placed. Evidence of diesel spillage where vehicles refuel. Soil will need to be relocated to HWTA for future remediation. An empty drum has been placed outside with cover for minor spill containment, has not been used at all.
HWTA	U	Drums and oil cubes will need to be reorganized. Both cells are completely flooded, especially the east cell. (Photo 1-3) Drums are floating around.
By Generator	А	No issues with the tank.
Helicopter Landing	Α	All drums are properly sealed and placed at 9:00-3:00.
Airport	Α	No leaks present at the airstrip day tanks or Jet A fuel drums.
Signage	U	Many of the signs have been knocked down by weather. Will need to be repaired or replaced during summer months.
MSDS Sheets	Α	Present where needed.
Spill Kits	А	Present where required.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

Secondary Containment:

Notes – leaks, water or ice, breaches, holes, slumping, erosion.

Tank farm	U	Fuel present on the ground. Contaminated snow stored in phase II has all been drummed. There is a lot of oil contaminated water in phase II and diesel contaminated water in phase I. Phase II will need to be smoothed out (Photo 4)
Reclaim Area	А	No issues present.
Vehicle fueling station	А	Spills are frequent here, may be a good idea to get some secondary containment for underneath fuel nozzles. (Photo 5)

HWTA	U	Damage to berm liner. Flooded. Water will need to be pumped out and treated using oil/water separator along with the Oztec water remediation unit (Photo 1-3).
By Generator	A	Evidence of historical spills. Water within the berm will need to be pumped out and treated.
Helicopter Landing	A	Snow has melted, rain drains have been attached. Drums are now accessible. Spill kits are now accessible due to snow melt.
Airport	A	Fuel hoses need to be drained and put away. Large spills that have appeared where annual fuel transfer occurred over the winter have begun to get dug up and relocated to HWTA for future remediation but are still present (Photo 6). Still presence of a previous spill outside of the Wacker genset that will need to be dug up and relocated to the HWTA.
Spill Pallets	A	Most of the pill pallets are in good shape. There is one in particular in between the shop and incinerator that should be emptied and relocated to an area with level ground.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech:WA

General Notes

Chemical Storage	А	Chemical storage area is clean and organized.
Signage	А	Proper signs present to indicate which chemicals are present.
MSDS Sheets	А	MSDS present.
Spill Kits	A	Spill kits present where required. Contents of each should be inspected regularly. Spill kit at airstrip is buried and will need to be dug up along with spill kit at lay down area.

Resp. Party: Enviro	Site Manager:	Env tech:WA

Waste Disposal Storage Notes

WWTP	Α	Clean and in working order. Kept well organized.
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Incineration Area	U	Need to find designated area for ash. Door is in poor condition,
		does not close properly. A chain and carabineer have been put
		in place to make sure that door remains closed. Waste
		disposal around camp has improved significantly however, the
		shop and process plant are still areas of concern.
Landfill	N/A	Landfill site has yet to be approved.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

Truck Shop Notes

Oil Cubes	U	There are cubes and gasoline outside of truckshop that need to be brought inside or placed in secondary containment. (Photo 7)
Waste Oil Traps	A	Waste oil traps are acceptable however, catchments should be pumped out ASAP as they are close to maximum capacity.
Central Grate	А	Grate is low.
Oil Burner Stacks	Α	Burner is no longer in use.
Waste Storage	U	Waste disposal is an ongoing issue in here. A lot of non burnable waste is generated in this area.
Powerhouse Area	U	Lots of stains are showing up on the ground now that the snow is melted. Oil cubes that were used for a recent oil change need to be put away (Photo 8)
Parking Lot	U	Now that the snow has melted there are a number of small spills where vehicles and heavy equipment were stored over the winter. These will need to be cleaned up ASAP.

Resp. Party: Enviro/Site	Site Manager:	Env tech: WA
Services/Mechanics		

Water Supply – Carat Lake

Notes – slumping, erosion, siltation.

Pump House	Α	No issues present.

Causeway	Α	Slight erosion on north side.
Pumps	Α	Pumps functioning.
Flow Measuring Device	Α	All flow meters around site function properly.
Intake	Α	No issues present.
Treatment	Α	Chlorine levels are acceptable

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

East, Southeast, and West Dams. PKCA. Notes – FPK dispersion.

Tire Wall Inspection	Α	Will need further inspection. There appears to be some tires that are overhanging now (Photo 9)
FPK (contained within PKCA)	U	FPK should be saturated to mitigate dispersion. There are many areas of bone dry FPK still.
Inspect tundra surrounding dams	U	Major cleanup has taken place and will need to continue.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA

Drill Sites Notes

Water Sources	n/a	We are not currently drilling.
Drill Site Areas	n/a	We are not currently drilling.
Drill Sumps	n/a	We are not currently drilling.
Erosion	n/a	We are not currently drilling.
Flow Measure Device	n/a	We are not currently drilling.
Debris	n/a	We are not currently drilling.

Resp. Party:	Site Manager:	Env tech: WA

General Conditions

Notes

Posting and Signage's	U	Some signs missing or Damaged at the HWTA and around site which will need to be repaired or replaced.
Litter around buildings	U	A lot of garbage is showing up where the snow is melting, butts need to be disposed of properly.
Records and Reporting	Α	Everything has been properly recorded and reported to the appropriate parties.
Proper waste disposal bins in place	A	People need to be a little more conscientious when disposing of any waste. Proper receptacles are in place and labeled however, not all of the waste items are making it into the correct locations. General awareness needs to be reiterated.

Resp. Party: Enviro/Site Services	Site Manager:	Env tech: WA





Photos 1 & 2 - HWTA

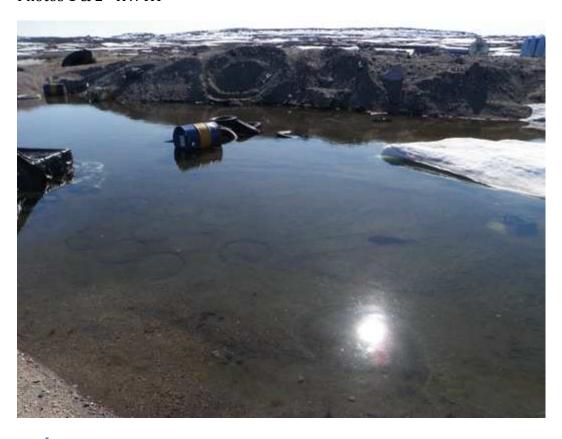




Photo 4 – Phase II following the clean up



Photo 5 – Vehicle refueling station



Photo 6 – Airstrip fuel transfer area



Photo 7 – Cubes and drums outside of the Truck Shop, no secondary containment



Photo 8 – Oil cubes outside of Power House



Photo 9 – Tire wall along the Southeast Dam – monitor during snow melt