

# TYPE A WATER LICENSE 2AM-JER1119 Jericho Diamond Mine

# **Monthly Report**

Month being reported: March 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 and the operation of the process plant. Table 2.1 provides the monthly and annual quantity of freshwater used. A total of 189.7 m<sup>3</sup> 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 - March 2012 (m3)

MONTH	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	N/A	N/A	N/A
Мау	N/A	N/A	N/A
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	128.7	61.0	189.7

Daily values can be found in Appendix A

## 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.

MONTHLY AND ANNUAL QUANTITIES OF SOLIDS IN TONNES AND 4 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 March 2012.

## **Sewage Treatment Plant**

Refer to section 7.

## **Open Pit**

Refer to section 6.

### Oztek Unit

Refer to Section 9.

### Seepage

There has not been a seepage survey done in March 2012.

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 m<sup>3</sup> 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 <sup>3</sup> )
January	0
February	0
March	0
April	N/A
May	N/A
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
ANNUAL TOTAL	0

## 6 MONTHLY AND ANNUAL QUANTITIES OF MINE PIT WATER AND 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 January 2012, there has not been any volume pumped from the pit into the PKCA.

Table 6.1 - Quantities in m<sup>3</sup> of pit water pumped to the PKCA

MONTH	VOLUME PUMPED FROM PIT TO PKCA (m³)
January	0
February	0
March	0
April	N/A
May	N/A
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 <sup>3</sup> )	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 135.9  $\,\mathrm{m}^3$  of treated sewage effluent was discharged from the STP to the PKCA in 2012 as of March.

Table 7.1 – Quantities in m<sup>3</sup> 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	N/A
May	N/A
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)	135.9

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 m<sup>3</sup> of settled sludge was deposited into the designated basin on the till dump in March of 2012.

**Table 8.1** Sewage Solids Removed January - December 2012

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

## MONTHLY AND ANNUAL QUANTITIES OF TREATED EFFLUENT 9 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, as the water is still frozen.

Table 9.1 Volumes of treated effluent discharged from Oztek to PKCA (m<sup>3</sup>)

MONTH	VOLUMES OF EFFLUENT DISCHARGED (m <sup>3</sup> )
January	0
February	0
March	0
April	N/A
May	N/A
June	N/A
July	N/A
August	N/A
September	N/A
October	N/A
November	N/A
December	N/A
ГОТАL	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 March 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)

There were no unauthorized discharges at the Jericho mine site March, 2012. There were 7 spills reported in March, 2012. All spill reports can be found in Appendix C.

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

No spill training exercises were carried out by Shear Diamonds Ltd. March 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 March 2012 at the Jericho Mine Site.

### 16 **SITE VISITORS**

No visitors were present on site, with the exception of contractors from Finning, during the month of March.

### **17 NON-COMPLIANCES**

March had a few compliance issues. Issues regarding improper waste sorting, handling and incineration. There are also compliance issues with the storage of waste hydrocarbons, secondary containment, waste storage and handling in the truck shop at site. Action plans are being developed to address these issues.

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

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

Date	Time	Meter	Actual	Initials
		Reading (m <sup>3</sup> )	Volume (m3)	
1-Mar-12	6:30 AM	226607		AU
2-Mar-12	6:15 AM	226607	226607 0	
3-Mar-12	6:30 AM	226607	0	AU
4-Mar-12	6:45 AM	226607	0	AU
5-Mar-12	6:22 AM	226607	0	AU
7-Mar-12	7:05 AM	226607	0	WA
8-Mar-12	8:40 AM	226607	0	WA
9-Mar-12	6:40 AM	226706	10	WA
10-Mar-12	6:11 AM	226977	27	AU
11-Mar-12	6:30 AM	226977	0	AU
12-Mar-12	6:30 AM	226977	0	AU
13-Mar-12	6:30 AM	226977	0	AU
14-Mar-12	N/A	227076	10	N/A
15-Mar-12	6:10 AM	227076	0	MC
16-Mar-12	6:15 AM	227076	0	MC
17-Mar-12	6:30 AM	227076	0	MC
18-Mar-12	6:25 AM	227076	0	MC
19-Mar-12	6:30 AM	227076	0	MC
20-Mar-12	6:15 AM	227232	16	MC
21-Mar-12	6:20 AM	227232	0	MC
22-Mar-12	12:35 PM	227232	0	MC
23-Mar-12	7:00 AM	227232	0	MC

24-Mar-12	7:05 AM	227232	0	MC
25-Mar-12	6:45 AM	227232	0	MC
26-Mar-12	6:45 AM	227232	0	MC
27-Mar-12	6:25 AM	227414	18	MC
28-Mar-12	6:15 AM	227414	0	MC
29-Mar-12	6:15 AM	227414	0	AU
30-Mar-12	6:15 AM	227508	9	AU
31-Mar-12	6:30 AM	227508	0	AU

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

# **Sewage Treatment Plant Discharge Data**

				Vac	Truck
Date	Time	Flow Meter Reading [L]	Daily Discharge [L]	Raw Sewage Pumped IN [US Gal]	Sludge Pumped Out [US Gal]
1-Mar-12	7:00				
2-Mar-12	7:00				
3-Mar-12	7:30				
4-Mar-12	7:45				
5-Mar-12	7:25		3,100		
7-Mar-12	7:50	3,100	2,120		
8-Mar-12	7:30	5,220	2,173		
9-Mar-12	7:00	7,393	4,448		
11-Mar-12	7:00	11,841	2,694		
12-Mar-12	7:18	14,535	7,828		
13-Mar-12	7:11	22,363	2,121		
15-Mar-12	7:30	24,484	3,327		
16-Mar-12	2:17	27,811	2,631		
17-Mar-12	7:00	30,442	4,364		
18-Mar-12	7:00	34,806	3,536		
19-Mar-12	7:10	38,342	3,210		
20-Mar-12	7:05	41,552			
21-Mar-12	12:35		2,536		
22-Mar-12	12:45	2,536	1,857		
23-Mar-12	7:00	4,393	5,212		
24-Mar-12	7:35	9,605			
25-Mar-12	7:00		3,000		
26-Mar-12	7:00	3,000	2,788		
27-Mar-12	7:00	5,788	5,295		

28-Mar-12	7:45	11,083	1,139	
29-Mar-12		12,222	3,250	
30-Mar-12	7:15	3,250	3,846	
31-Mar-12	7:22	7,096		



B

D

E

G

LATITUDE

DEGREES 66

PRODUCT SPILLED

SPILL SOURCE

polocat



REPORT DATE: MONTH - DAY - YEAR

March 4 2017

March 3 2012

KTL 311 C&15

RESPONSIBLE PARTY OR VESSEL NAME

Shear Diamone

ANY CONTRACTOR INVOLVED

hydraulic fluid

SECOND PRODUCT SPILLED (IF APPLICABLE)

FACTORS AFFECTING SPILL OR RECOVERY

11/0

OCCURRENCE DATE: MONTH - DAY - YEAR

LAND USE PERMIT NUMBER (IF APPLICABLE)

GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION

Jericho Mine Site, 2 km S. Carat L

MINUTES ()

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

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

REPORT TIME

SECONDS () ()

SPILL CAUSE

0.3L

NIa

DESCRIBE ANY ASSISTANCE REQUIRED

leak hydraulic Fluid while

hydraulic leak

7:15 am

4:30,pm

RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION

QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES

CONTRACTOR ADDRESS OR OFFICE LOCATION

REGION

□ NWT

DEGREES \\\

Suite 220, 6 Adelaide SteE

2 AM-JERIII9

OCCURRENCE TIME

EMAIL: spills@gov.nt.ca REPORT LINE USE ONLY ORIGINAL SPILL REPORT, REPORT NUMBER ☐ UPDATE # \_\_\_\_\_\_TO THE ORIGINAL SPILL REPORT WATER LICENCE NUMBER (IF APPLICABLE) MUNAVUT ADJACENT JURISDICTION OR OCEAN MINUTES 27 SECONDS 66 QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES U.N. NUMBER nla AREA OF CONTAMINATION IN SQUARE METRES 0.1m2 HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS bobest was brought back to shop

	- once leals was noticed, bobast was brought back to shop for repairs							
K	for repairs							
	-hydraulic fluid was scraped off top layer of snow and ice							
	and brought into truck shop for disposal							
	REPORTED TO SPILL LINE BY	POSITION	EN	MPLOYER	LOCATION CALLING F	ROM	TELEPHONE	
L	Wes Atchison	Environmental Tech	unician S	Shear Diamonds	Jericho Mine	Site	718-372-2750	
R.A	ANY ALTERNATE CONTACT	POSITION		MPLOYER	ALTERNATE CONTACT	_	ALTERNATE TELEPHONE	
М	Dave Pennington	Medic	5	hear Diamonds	LOCATION Jerich	0	778-372-2726	
	J .	RE	PORT LINE U	ISE ONLY				
N	RECEIVED AT SPILL LINE BY	POSITION	EN	MPLOYER	LOCATION CALLED		REPORT LINE NUMBER	
IN		STATION OPERATOR			YELLOWKNIFE, NT		(867) 920-8130	
LEA	DAGENCY DEC DCCG DGN	NWT GN GILA GINAC GNE	В □ТС	SIGNIFICANCE   MINOR	MAJOR   UNKNOWN	FILE STA	TUS - OPEN - CLOSED	
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FIRS	T SUPPORT AGENCY							
SECOND SUPPORT AGENCY								
THIR	D SUPPORT AGENCY							
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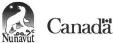
# Internal Only NT-NU SPILL REPORT

NT-NU 24-HOUR SPILL REPORT LINE TEL: (867) 920-8130 FAX: (867) 873-6924 EMAIL: spills@gov.nt.ca OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS REPORT LINE USE ONLY

	REPORT DATE: MONTH - DAY - YEAR		REPORT	TIME				THE OWN EARL GOL ONE
A	Murch 5 2012			10am		DORIGINAL SPILL RE	PORT,	REPORT NUMBER
	OCCURRENCE DATE: MONTH - DAY - YEAR			RENCE TIME		OR		THE ON NOWIDER
B	Murch 5 2012			45am		☐ UPDATE # TO THE ORIGINAL SPIL	LL REPORT	
-	LAND USE PERMIT NUMBER (IF APPLICABLE)		(0.	10 100 0011010 1000				
C				WATER LICENC	E NUMBER	(IF APPLICABLE)		
	CTL 311 C&15			LA.	M- 7	ERILIA		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION	N FROM NAMED LO	DCATION	REGION				
U	Jericho Mine Site			□ NWT	5-NUNAVL	IT	RISDICTION	OR OCEAN
_	LATITUDE			LONGITUDE				
E	DEGREES 66 MINUTES ()	SECONDS OO		DEGREES	111	MINUTES 27 SECONDS CO		
_	RESPONSIBLE PARTY OR VESSEL NAME	RESPONSIBLE P					J OL	001103
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_	The state of the s	Λ	19			nla		
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1	hose attached to pump	dripping	1			0.1m	2	
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J	none		Ma			nov	re	
	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPO	SED OR TAKEN TO	CONTAIN	, RECOVER OR	DISPOSE C	OF SPILLED PRODUCT	AND CONTAN	INATED MATERIALS .
	after using pump for out to a true	an a	0.1	chang	e) 1	t was	bein	s carried
	out to a truc	-n a	nd	. Son	ne	residual	011	OTTPPEO
	out and on to	the a	COLD	2				
K								\
	- oil was shovelled	(scrape	0 4	rom	90	layer of	SY	iow and
	placed in a bar	rel						
	REPORTED TO SPILL LINE BY POSITION	LITIE	MPLOYER	R C		OCATION CALLING FRO	OM TEI	LEPHONE
19.30	Wes Atchison Environmen ANY ALTERNATE CONTACT POSITION		-	THE PARTY OF THE P	nonds	nla		nla
M	Kelly Itans Electricia		She		- 11.	DOCATION 17/5	ALT	ERNATE TELEPHONE
		REPORT LINE	-		re-orași.	OCATION 11/2		19
NI	RECEIVED AT SPILL LINE BY POSITION	E	MPLOYER	3	IL	OCATION CALLED	REI	PORT LINE NUMBER
N	STATION OPERATOR				Street I	ELLOWKNIFE, NT		
1545							(86.	7) 920-8130
LEAD	AGENCY DEC DCCG DGNWT DGN DILA DINAC	□ NEB □ TC	SIGNIF	ICANCE   MIN	OR MAJO	OR □ UNKNOWN	FILE STATUS	□ OPEN □ CLOSED
AGEN	CONTACT NAME	7/7	CONTA	CT TIME		REMARKS		
LEAD	AGENCY							
FIRST	SUPPORT AGENCY	N.						
SECO	ND SUPPORT AGENCY							
THIRE	SUPPORT AGENCY							

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REPORT LINE USE ONLY

	REPORT DATE: MONTH - DAY -	YEAR	200000000000000000000000000000000000000	REPORT TIME		▼ORIGINAL SPILL REPORT,	
A	March 15th 2012			1 a.m	OR	roni,	REPORT NUMBER
В	March 15th 2012		the second	a.m	☐ UPDATE # TO THE ORIGINAL SPI	LL REPORT	
С	LAND USE PERMIT NUMBER (IF KTL 311 C015	APPLICABLE)		WATER LICENCE NUMBER 2AM-Jer1119	BER (IF APPLICABLE)	_	
D	GEOGRAPHIC PLACE NAME OR Jericho Mine Site	DISTANCE AND DIRECTION FROM N	AMED LOCATION	N REGION  MENWT □ NUN	AVUT □ ADJACENT JU	RISDICTION	I OR OCEAN
Ε	DEGREES 66	MINUTES 01 SECOND	s <b>00</b>	LONGITUDE DEGREES 111	MINUTES 27	, s	ECONDS 00
F	RESPONSIBLE PARTY OR VESS Shear Diamonds			DDRESS OR OFFICE LOC			
G	ANY CONTRACTOR INVOLVED  No	CONTRA n/a	ACTOR ADDRES	S OR OFFICE LOCATION			
	PRODUCT SPILLED  Diesel (Hydrocarbo		TY IN LITRES, KI	ILOGRAMS OR CUBIC ME	TRES U.N. NUMBER		
Н	none n/A			ILOGRAMS OR CUBIC ME	TRES U.N. NUMBER		
I	SPILL SOURCE SPILL CAUSE			was removed		MINATION IN	SQUARE METRES
J				ANCE REQUIRED	HAZARDS TO PER	RSONS, PRO	PERTY OR ENVIRONMENT
K		emporary plastic berm	•				
	REPORTED TO SPILL LINE BY	POSITION	EMPLO:	VER.	LOCATION CALLING F	ROM :	TELEDHONE
L	REPORTED TO SPILL LINE BY  Matt Charbonneau	POSITION Environmental tech	EMPLO' Shea	<sub>YER</sub> ar Diamonds	LOCATION CALLING FI		TELEPHONE 778-372-2750
L			Shea	ar Diamonds	The second secon	Site	
L	Matt Charbonneau  ANY ALTERNATE CONTACT	Environmental tech	Shea	ar Diamonds YER ar Diamonds	Jericho Mine	Site	778-372-2750 ALTERNATE TELEPHONE
L M N	Matt Charbonneau  ANY ALTERNATE CONTACT	Environmental tech	Shea EMPLON Shea	ar Diamonds  Ar Diamonds  ONLY	Jericho Mine	Site Site	778-372-2750 ALTERNATE TELEPHONE
N	Matt Charbonneau ANY ALTERNATE CONTACT Christina Seitz RECEIVED AT SPILL LINE BY	Environmental tech POSITION HR REPO	Shea EMPLO' Shea RT LINE USE C	ar Diamonds  Ar Diamonds  ONLY	Jericho Mine  ALTERNATE CONTACT  Jericho Mine  LOCATION CALLED  YELLOWKNIFE, NT	Site Site	778-372-2750 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER
N LEAI	Matt Charbonneau ANY ALTERNATE CONTACT Christina Seitz  RECEIVED AT SPILL LINE BY D AGENCY DEC DCG DGN	Environmental tech POSITION HR  REPO POSITION STATION OPERATOR	Sheat EMPLOY Sheat EMPLOY EMPLOY	ar Diamonds  YER  ar Diamonds  DNLY  YER	Jericho Mine  ALTERNATE CONTACT  Jericho Mine  LOCATION CALLED  YELLOWKNIFE, NT	Site Site	778-372-2750 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEAI AGE	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  D AGENCY   EC   CCG   GN  NCY   CC	Environmental tech POSITION HR  REPO POSITION STATION OPERATOR WT GN GLAGINAC NEB	Sheat EMPLOY Sheat EMPLOY EMPLOY	ar Diamonds yer ar Diamonds bully yer  NIFICANCE   MINOR	Jericho Mine  ALTERNATE CONTACT  Jericho Mine  LOCATION CALLED  YELLOWKNIFE, NT  MAJOR UNKNOWN	Site Site	778-372-2750 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEAI AGE LEAI	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  D'AGENCY DEC DCG DN  O'AGENCY CO	Environmental tech POSITION HR  REPO POSITION STATION OPERATOR WT GN GLAGINAC NEB	Sheat EMPLOY Sheat EMPLOY EMPLOY	ar Diamonds yer ar Diamonds bully yer  NIFICANCE   MINOR	Jericho Mine  ALTERNATE CONTACT  Jericho Mine  LOCATION CALLED  YELLOWKNIFE, NT  MAJOR UNKNOWN	Site Site	778-372-2750 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEAI AGE LEAI FIRS	Matt Charbonneau ANY ALTERNATE CONTACT Christina Seitz  RECEIVED AT SPILL LINE BY  D AGENCY   EC   CCG   GN NCY   CC D AGENCY   T SUPPORT AGENCY	Environmental tech POSITION HR  REPO POSITION STATION OPERATOR WT GN GLAGINAC NEB	Sheat EMPLOY Sheat EMPLOY EMPLOY	ar Diamonds yer ar Diamonds bully yer  NIFICANCE   MINOR	Jericho Mine  ALTERNATE CONTACT  Jericho Mine  LOCATION CALLED  YELLOWKNIFE, NT  MAJOR UNKNOWN	Site Site	778-372-2750 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130



OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

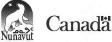
NT-NU 24-HOUR SPILL REPORT LINE

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

REPORT LINE USE ONLY

Α	REPORT DATE: MONTH - DAY - YE March 17th 2012	EAR		2:15 p.m	OR OR	ORIGINAL SPILL REPORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH - DA			4:40 p.m	то	JPDATE # THE ORIGINAL SPILL REPOR	<u> </u>
С	KTL 311 C015	35		2AM-Jer111		APPLICABLE)	
D	Jericho Mine Site	ISTANCE AND DIRECTION FROM NAM	IED LO	□ NWT 🕱 N	IUNAVUT	☐ ADJACENT JURISDICTIC	ON OR OCEAN
E		NUTES 01 SECONDS	00	DEGREES 111  ARTY ADDRESS OR OFFICE		MINUTES 27	SECONDS 00
F	RESPONSIBLE PARTY OR VESSEI Shear Diamonds			, 6 Adelaide St. E		nto ON	
G	No	contrac n/a	TOR A	DDRESS OR OFFICE LOCATION	ON		
	PRODUCT SPILLED  Diesel (Hydrocarbo)		IN LIT	RES, KILOGRAMS OR CUBIC	METRES	U.N. NUMBER 1202	
Н	SECOND PRODUCT SPILLED (IF A	PPLICABLE) QUANTITY <b>n/A</b>	IN LIT	RES, KILOGRAMS OR CUBIC	METRES	u.n. number <b>n/a</b>	
I	SPILL SOURCE Fuel tank behind pic	ckup SPILL CAU		zzle		AREA OF CONTAMINATION 2.5	IN SQUARE METRES
J	FACTORS AFFECTING SPILL OR F	DESCRIBE NONE MENTS, ACTIONS PROPOSED OR TAKE		ASSISTANCE REQUIRED		None	OPERTY OR ENVIRONMENT
K	Area (HWTA) -All staff has been a properly replaced	ed snow was shoveled dvised to refrain from		ng the heavy duty	truck	fill nozzle until it	can be
L	REPORTED TO SPILL LINE BY  Matt Charbonneau	POSITION Environmental tech		EMPLOYER Shear Diamonds		ericho Mine Site	TELEPHONE 778-372-2750
M	ANY ALTERNATE CONTACT Christina Seitz	POSITION HR		EMPLOYER Shear Diamonds	AL.	TERNATE CONTACT Lericho Mine Site	778-372-2726
Г		REPOR	T LIN	USE ONLY			
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR		EMPLOYER	1 1 2000	CATION CALLED ELLOWKNIFE, NT	REPORT LINE NUMBER (867) 920-8130
LEA	DAGENCY DEC DCCG DGNW	T GN GILA GINAC GNEB	тс	SIGNIFICANCE   MINOR	R 🗆 MAJOI	R UNKNOWN FILE ST	ATUS OPEN CLOSED
AGE	ENCY COI	NTACT NAME		CONTACT TIME		REMARKS	
LEA	AD AGENCY						
FIR	ST SUPPORT AGENCY						
SEC	COND SUPPORT AGENCY						
ТНІ	RD SUPPORT AGENCY						
							PAGE 1 OF





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Α							
1	REPORT DATE: MONTH - DAY - YE  March 18th 2012	:AR	1:35	p.m	▼ORIGINAL SPILL REP	ORT,	REPORT NUMBER
В	OCCURRENCE DATE: MONTH - DA	AY – YEAR		RENCE TIME	UPDATE # TO THE ORIGINAL SPILI	REPORT	_=
٦	March 18th 2012		10:0	0 a.m			
С	KTL 311 C015	•		WATER LICENCE NUM 2AM-Jer1119	BER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR D	ISTANCE AND DIRECTION FRO	M NAMED LOCATION				
	LATITUDE			□ NWT X NUN	AVUT	ISDICTION	OR OCEAN
Е		NUTES 01 SECO	ONDS 00	DEGREES 111	MINUTES 27	SE	ECONDS 00
F	RESPONSIBLE PARTY OR VESSEL Shear Diamonds			delaide St. E T			
Ľ.	ANY CONTRACTOR INVOLVED			S OR OFFICE LOCATION	Oronto Ort		
G	No	n/		S OR OFFICE LOCATION			
	PRODUCT SPILLED	QU/	ANTITY IN LITRES, KI	ILOGRAMS OR CUBIC ME	TRES U.N. NUMBER		L
١	diesel	~!	5		1202		
H	SECOND PRODUCT SPILLED (IF APPLICABLE)  QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES			TRES U.N. NUMBER			
	none n/a			n/a			
Ε.	SPILL SOURCE SPILL CAUSE				AREA OF CONTAM	INATION IN	SQUARE METRES
I	Fuel Pump poorly fitting quick connect 0.2						
J	FACTORS AFFECTING SPILL OR F		SCRIBE ANY ASSISTA	ANCE REQUIRED	none	SONS, PROF	PERTY OR ENVIRONMENT
K	will be properly disp -Faulty quick conne						
		ct was removed ar	nd fueling ha	ad no further is	sues		
	REPORTED TO SPILL LINE BY	ct was removed an	nd fueling ha		SUES	ОМ   Т	TELEPHONE
L	REPORTED TO SPILL LINE BY  Matt Charbonneau		EMPLO			2000	TELEPHONE 778-372-2723
L	Matt Charbonneau  ANY ALTERNATE CONTACT	POSITION	ech She	YER <b>ar Diamonds</b> YER	LOCATION CALLING FR Jericho Mine ALTERNATE CONTACT	Site	
	Matt Charbonneau  ANY ALTERNATE CONTACT	POSITION Environmental Toposition Human Resource	ech She	YER ar Diamonds YER ar Diamonds	LOCATION CALLING FR Jericho Mine	Site	778-372-2723
-	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz	POSITION Environmental Toposition Human Resource	ech She. EMPLO She. EPORT LINE USE (	YER ar Diamonds YER ar Diamonds DNLY	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT  JERICHO MINE  LOCATION	Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726
-	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz	POSITION Environmental Toposition Human Resource R	ech She	YER ar Diamonds YER ar Diamonds DNLY	LOCATION CALLING FR  Jericho Mine  ALTERICHO MINE  LOCATION CALLED	Site  Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER
M N	Matt Charbonneau ANY ALTERNATE CONTACT Christina Seitz  RECEIVED AT SPILL LINE BY	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR	ech She	YER ar Diamonds YER ar Diamonds DNLY YER	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT  JERICHO MINE  LOCATION CALLED  YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
M N LEA	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  AD AGENCY DEC DCG DGNW	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR TO GROUP GLAD GROUP	ech She EMPLO She EMPLO ES SHE EMPLO EMPLO	YER  ar Diamonds  YER  ar Diamonds  DNLY  YER  INIFICANCE   MINOR	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT LOCATION MINE  LOCATION CALLED YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER
M N LEA	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  AD AGENCY   EC   CCG   GNW	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR	ech She EMPLO She EMPLO ES SHE EMPLO EMPLO	YER ar Diamonds YER ar Diamonds DNLY YER	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT  JERICHO MINE  LOCATION CALLED  YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEA	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  AD AGENCY   EC   CCG   GNW	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR TO GROUP GLAD GROUP	ech She EMPLO She EMPLO ES SHE EMPLO EMPLO	YER  ar Diamonds  YER  ar Diamonds  DNLY  YER  INIFICANCE   MINOR	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT LOCATION MINE  LOCATION CALLED YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEA AGE	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  DAGENCY COR	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR TO GROUP GLAD GROUP	ech She EMPLO She EMPLO ES SHE EMPLO EMPLO	YER  ar Diamonds  YER  ar Diamonds  DNLY  YER  INIFICANCE   MINOR	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT LOCATION MINE  LOCATION CALLED YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130
N LEA AGE LEA	Matt Charbonneau  ANY ALTERNATE CONTACT  Christina Seitz  RECEIVED AT SPILL LINE BY  AD AGENCY   EC   CCG   GNW  ENCY   COM  AD AGENCY   COM	POSITION Environmental Toposition Human Resource R POSITION STATION OPERATOR TO GROUP GLAD GROUP	ech She EMPLO She EMPLO ES SHE EMPLO EMPLO	YER  ar Diamonds  YER  ar Diamonds  DNLY  YER  INIFICANCE   MINOR	LOCATION CALLING FR  Jericho Mine  ALTERNATE CONTACT LOCATION MINE  LOCATION CALLED YELLOWKNIFE, NT	Site Site	778-372-2723 ALTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 920-8130





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Α	REPORT DATE: MONTH - DAY - Y	/EAR	0.11	ORT TIME		ORIGINAL SPILL REPORT,	G		
	March 21st, 2012	5 S		57 p.m		OR	REPORT NUMBER		
В	OCCURRENCE DATE: MONTH - D March 21st. 2012	DAY – YEAR	Fac 40 1 1 1 1 2 2 2	URRENCE TIME		☐ UPDATE # TO THE ORIGINAL SPILL REPORT			
Ë	LAND USE PERMIT NUMBER (IF		4:4	20 p.m					
C	KTL 311 C015	APPLICABLE)		2AM-Je		IF APPLICABLE)			
D	GEOGRAPHIC PLACE NAME OR Jericho Mine Site	DISTANCE AND DIRECTION FR	OM NAMED LOCAT	TION REGION	X NUNAVUT	☐ ADJACENT JURISDICTION	LOR OCEAN		
F	LATITUDE			LONGITUDE					
E	DEGREES 66 M		CONDS 00	DEGREES			SECONDS 00		
F	Shear Diamonds			20, 6 Adelaide st. E, Toronto ON					
G	ANY CONTRACTOR INVOLVED		ONTRACTOR ADDR	ESS OR OFFICE LO	OCATION	9 == 1	9 29		
	1			. KILOGRAMS OR O	CUBIC METRE	S U.N. NUMBER	2 8		
ш	Diesel (Hydrocarbon) 7L			, razodriawo ori c	JODIO WETTLE	1202			
Н	SECOND PRODUCT SPILLED (IF		JANTITY IN LITRES	, KILOGRAMS OR (	CUBIC METRES	S U.N. NUMBER			
_	non		non						
1	SPILL SOURCE SPILL CAUSE Fueling station Poorly D			ed fuel nozz	le	AREA OF CONTAMINATION IF	I SQUARE METRES		
J	FACTORS AFFECTING SPILL OR	RECOVERY DE	ESCRIBE ANY ASSI	STANCE REQUIRE	D	HAZARDS TO PERSONS, PRO	PERTY OR ENVIRONMENT		
J	NONE ADDITIONAL INFORMATION, COM		none			none	1 2 2		
K	-Pump wasn't place -When pump was to -Spill was cleaned o -Staff will be warne	urned on, pressure up immediately an	e pushed it de la pushed.	out and ont					
L	REPORTED TO SPILL LINE BY  Matt Charbonneau	POSITION Env. Technician	000000000	LOYER Lear Diamor		OCATION CALLING FROM Jericho Mine Site	TELEPHONE 778-372-2723		
М	ANY ALTERNATE CONTACT Christina Seitz	POSITION Human Resource	EMP	LOYER lear Diamor	1	ALTERNATE CONTACT  Jericho Mine Site	ALTERNATE TELEPHONE 778-372-2726		
		1	REPORT LINE US	E ONLY					
N	RECEIVED AT SPILL LINE BY	POSITION STATION OPERATOR	EMP	LOYER		OCATION CALLED	REPORT LINE NUMBER (867) 920-8130		
LEAD	I DAGENCY□EC □CCG □GNV		NER DITC	SIGNIFICANCE   N			(867) 920-8130 'US		
AGE		ONTACT NAME		CONTACT TIME	WINOR E WAS	REMARKS	03 LOPEN LICEOSED		
-	D AGENCY								
FIRS	T SUPPORT AGENCY			181 E 1					
SEC	OND SUPPORT AGENCY	V 1	1-1-1-2						
THIE	ID SUPPORT AGENCY			112.4		9 16			

PAGE 1 OF \_\_\_\_\_





NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-81-30 FAX: (867) 873-69:24

EMAIL: soils@gov.nt.ca

A B C	March 31, 2012		REPORT	TIME			
ВС		10:15am		SCORIGINAL SPILL REPORT OR		REPORT NUMBER	
С	OCCURRENCE DATE: MONTH - DAY - YEAR March 31, 2012		9:15a	ENCE TIME	D UPDATE #TO THE ORIGINAL SPILL RE	PORT	12-105
	LAND USE PERMIT NUMBER (F APPLICABLE) KTL 311 C015			WATER LICENCE NUMB 2AM-JER1119			
D	GEOGRAPHIC PLACE NAME ON DISTANCE AND DIR Jericho Mine Site	ECTION FROM NAMES	LOCATION	REGION	AVUT	CTION	OR OCEAN
Е	DEGREES 66 MNUTES 01	SECONDS	00	LONGITUDE DEGREES 111			
F	PESPONSIBLE PARTY OR VESSEL NAME Shear Diamonds	RESPONSIBL	E PARTY AD	DRESS OF OFFICE LOC letaide St E To	ATION		EDONDS 00
G	ANY CONTRACTOR INVOLVED NO	contracto n/a	R ADDRESS	OR OFFICE LOCATION			
Н	PRODUCT SPELED Diesel	3L	LITRES, KILI	ES, KILOGRAMS OR GUEIC METRES UN NUMBER 1202			
П	none	n/a		DORAMS OR CUBIC ME	n\a n\a		
1	Fuel Truck	ed truck	c	AREA OF CONTAMINA	TON IN	BOUARE METRES	
J				ICE REQUIRED	HAZARDS TO PERSON	ISONS, PROPERTY OR ENVIRONMEN	
K		ow far to fill u	ip tile ti	uck			
K		ow lat to life o	p the tr	uck			
K	REPORTED TO SPILL LINE BY POSITION	nental Tech.	BMPLOY!		LOCATION CALLING FROM Jericho Mine Sit	4.5	TELEPHONE 778-372-2723
L	REPORTED TO SPILL LINE BY POSITION	nental Tech.	EMPLOYI Shea	n r Diamonds		e .	
L	REPORTED TO SPILL LINE BY POSITION Wes Atchison Environ ANY ALTERNATE CONTACT POSITION	nental Tech.	EMPLOYI Shea	n Diamonds n Diamonds	Jericho Mine Sit	e .	778-372-2723 «TERNATE TELEPHONE
L	REPORTED TO SPILL LINE BY POSITION Wes Atchison Environ ANY ALTERNATE CONTACT POSITION	nental Tech. ervisor	Shea BAPLOYI Shea	n Diamonds	Jericho Mine Sit	te A	778-372-2723 «TERNATE TELEPHONE
L M	RECEIVED AT SPILL LINE BY Wes Atchison Environm ANY ALTERNATE CONTACT POSITION Site Supe	nental Tech. ervisor REPORT L	Shea BM-LOYE Shea INE USE ON EMPLOYE	n Diamonds	Jericho Mine Sit ALTERNATE CONTACT Jericho Mine Sit LOGATION CALLED VELLOWKNIFE, NT	te A	778-372-2723  ILTERNATE TELEPHONE 778-372-2726  REPORT LINE NUMBER
L M	REPORTED TO SPELL LINE BY POSITION Environm ANY ALTERNATE CONTACT JIM Kane Site Superior Site Superior Station opens	nental Tech. ervisor REPORT L	EMPLOYE Shea EMPLOYE Shea EMPLOYE EMPLOYE	r Diamonds r Diamonds r Diamonds	Jericho Mine Sit ALTERNATE CONTACT Jericho Mine Sit LOGATION CALLED VELLOWKNIFE, NT	te A	778-372-2723 UTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 887) 920-8130
L M	REPORTED TO SPILL LINE BY Wes Atchison Environ ANY ALTERNATE CONTACT POSITION Jim Kane Site Supe  RECEIVED AT SPILL LINE BY POSITION STATION OPERA  RAGENCY CISC C COS C GMWT C GN CILA	nental Tech. ervisor REPORT L	EMPLOYE Shea EMPLOYE Shea EMPLOYE EMPLOYE	ER T Diamonds ER T Diamonds ELY ER	Jericho Mine Sit ALTERNATE CONTACT Jericho Mine Sit LOGATION CALLED YELLOWKNIFE, NT	te A	778-372-2723 UTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 887) 920-8130
L M N LEAR	REPORTED TO SPILL LINE BY Wes Atchison ANY ALTERNATE CONTACT Jim Kane  POSITION SITE Super  PRECEIVED AT SPILL LINE BY POSITION STATION OPERA  AGENCY CIEC COO CONTACT NAME	nental Tech. ervisor REPORT L	EMPLOYE Shea EMPLOYE Shea EMPLOYE EMPLOYE	ER T Diamonds ER T Diamonds ELY ER	Jericho Mine Sit ALTERNATE CONTACT Jericho Mine Sit LOGATION CALLED YELLOWKNIFE, NT	te A	778-372-2723 UTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 887) 920-8130
L M N LEAG AGE LEAG	REPORTED TO SPELL LINE BY POSITION Environm ANY ALTERNATE CONTACT JIM Kane POSITION SITE Super POSITION STATION OF BUT DISCONDISCONDENS OF AGENCY CIEC COOR CONTACT NAME OF AGENCY	nental Tech. ervisor REPORT L	EMPLOYE Shea EMPLOYE Shea EMPLOYE EMPLOYE	ER T Diamonds ER T Diamonds ELY ER	Jericho Mine Sit ALTERNATE CONTACT Jericho Mine Sit LOGATION CALLED YELLOWKNIFE, NT	te A	778-372-2723 UTERNATE TELEPHONE 778-372-2726 REPORT LINE NUMBER 867) 900-8130
K	REPORTED TO SPILL LINE BY POSITION		BMPLOY!	ın.		4.5	

## **APPENDIX D: Raw Data from ALS water testing**

SWQ-01. Effluent

			JER-SWQ-01	JER-SWQ-01
ALS		Sample ID	EFFLUENT	EFFLUENT
4/25/2012		ALS ID	L1123950-3	L1128978-2
Multiple Work Orders		Date Sampled	3/14/2012 6:15:00 AM	3/28/2012 12:00:00 AM
Analyte	Units	LOR	Water	Water
Hardness (as CaCO3)	mg/L	1.3	46.7	51
Temperature	Degree C	1	25	25
Total Suspended Solids	mg/L	3	8	33
Total Dissolved Solids	mg/L	10	427	389
Turbidity	NTU	0.1	7.7	22.2
Acidity (as CaCO3)	mg/L	5	15	29.2
Alkalinity, Total (as CaCO3)	mg/L	5	9.4	<5.0
Ammonia, Total (as N)	mg/L	0.005	5.81	1.81
Bicarbonate (HCO3)	mg/L	5	11.5	<5.0
Carbonate (CO3)	mg/L	5	<5.0	<5.0
Chloride (CI)	mg/L	0.5	95.9	101
Conductivity (EC)	uS/cm	0.2	722	706
Fluoride (F)	mg/L	0.05	0.059	<0.050
Hardness (as CaCO3)	mg/L	n/a	50.7	50.9
Hydroxide (OH)	mg/L	5	<5.0	<5.0
Ion Balance	%	n/a	106	106
Nitrate and Nitrite (as N)	mg/L	0.006	26.2	27.9
Nitrate (as N)	mg/L	0.006	26.0 *	27.9 *

NWB LICENCE: 2AM-JER1119 – MONTHLY REPORT – MARCH 2012 25

Nitrite (as N)	mg/L	0.002	0.123	<0.050
Total Kjeldahl Nitrogen	mg/L	0.05	9.61	6.54
рН	рН	0.1	6.25	5.25
Orthophosphate-Dissolved (as P)	mg/L	0.001	8.48 *	9.52 *
Phosphorus (P)-Total Dissolved	mg/L	0.001	8.91 *	9.68 *
Phosphorus (P)-Total	mg/L	0.001	8.95 *	10.5 *
TDS (Calculated)	mg/L	n/a	383	397
Sulfate (SO4)	mg/L	0.05	35.5	34.1
Total Inorganic Carbon	mg/L	1	<1.0	<1.0
Total Organic Carbon	mg/L	1	24.3	27.1
Fecal Coliforms	CFU/100mL	1	108	54
Mercury (Hg)-Total	mg/L	0.00005	<0.000050	<0.000050
Aluminum (Al)-Total	mg/L	0.0002	0.0895	0.61
Antimony (Sb)-Total	mg/L	0.000005	0.00258	0.00223
Arsenic (As)-Total	mg/L	0.00002	0.00066	0.000707
Barium (Ba)-Total	mg/L	0.00002	0.00426	0.0158
Beryllium (Be)-Total	mg/L	0.000002	0.0000035	0.0000213
Bismuth (Bi)-Total	mg/L	0.000001	0.000768	0.00122
Boron (B)-Total	mg/L	0.005	0.206	0.135
Cadmium (Cd)-Total	mg/L	0.000005	0.000159	0.000622
Calcium (Ca)-Total	mg/L	0.03	12.9	13.8
Cesium (Cs)-Total	mg/L	0.000005	0.0000842	0.0000764
Chromium (Cr)-Total	mg/L	0.00005	0.000468	0.00114
Cobalt (Co)-Total	mg/L	0.000005	0.000603	0.000917
Copper (Cu)-Total	mg/L	0.00005	0.131	0.49
Gallium (Ga)-Total	mg/L	0.00005	<0.000050	0.000093
Iron (Fe)-Total	mg/L	0.01	0.479	0.997
Lead (Pb)-Total	mg/L	0.000005	0.00179	0.00378

Lithium (Li)-Total	mg/L	0.0002	0.198	0.237
Magnesium (Mg)-Total	mg/L	0.03	4.39	4.46
Manganese (Mn)-Total	mg/L	0.000005	0.0795	0.111
Molybdenum (Mo)-Total	mg/L	0.00001	0.000921	0.000406
Nickel (Ni)-Total	mg/L	0.00005	0.0152	0.0198
Phosphorus (P)-Total	mg/L	0.05	8.8	10.9
Potassium (K)-Total	mg/L	0.05	26.9	27.9
Rhenium (Re)-Total	mg/L	0.000005	<0.000050	<0.000050
Rubidium (Rb)-Total	mg/L	0.000005	0.0256	0.0262
Selenium (Se)-Total	mg/L	0.00004	0.000267	0.000409
Silicon (Si)-Total	mg/L	0.05	3.46	4.19
Silver (Ag)-Total	mg/L	0.000005	0.0000311	<0.000050
Sodium (Na)-Total	mg/L	0.2	83.9	94.4
Strontium (Sr)-Total	mg/L	0.00001	0.0185	0.0252
Tellurium (Te)-Total	mg/L	0.00001	<0.000010	<0.000010
Thallium (TI)-Total	mg/L	0.000001	0.000007	0.0000165
Thorium (Th)-Total	mg/L	0.000005	0.0000097	<0.000050
Tin (Sn)-Total	mg/L	0.00001	0.000193	0.00013
Titanium (Ti)-Total	mg/L	0.00005	0.000764	0.00455
Tungsten (W)-Total	mg/L	0.00001	0.000052	0.000048
Uranium (U)-Total	mg/L	0.000001	0.0000549	0.000161
Vanadium (V)-Total	mg/L	0.00001	0.000516	0.000906
Yttrium (Y)-Total	mg/L	0.000005	0.0000453	0.000212
Zinc (Zn)-Total	mg/L	0.0001	1.72	3.36
Zirconium (Zr)-Total	mg/L	0.00001	0.00036	0.000813
Dissolved Metals Filtration Location		n/a	LAB	LAB
Aluminum (AI)-Dissolved	mg/L	0.0002	0.0107	0.0359
Antimony (Sb)-Dissolved	mg/L	0.000005	0.00229	0.0023

Arsenic (As)-Dissolved	mg/L	0.00002	0.000516	0.000542
Barium (Ba)-Dissolved	mg/L	0.00002	0.00155	0.0058
Beryllium (Be)-Dissolved	mg/L	0.000002	<0.0000020	0.0000025
Bismuth (Bi)-Dissolved	mg/L	0.000001	0.000431	0.000546
Boron (B)-Dissolved	mg/L	0.005	0.219	0.118
Cadmium (Cd)-Dissolved	mg/L	0.000005	0.000133	0.000466
Calcium (Ca)-Dissolved	mg/L	0.03	13.0 *	13.3 *
Cesium (Cs)-Dissolved	mg/L	0.000005	0.0000744	0.000065
Chromium (Cr)-Dissolved	mg/L	0.00005	0.000387	<0.00040 *
Cobalt (Co)-Dissolved	mg/L	0.000005	0.000554	0.00073
Copper (Cu)-Dissolved	mg/L	0.00005	0.082	0.329
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.000050	<0.000050
Iron (Fe)-Dissolved	mg/L	0.01	0.138	0.091
Lead (Pb)-Dissolved	mg/L	0.000005	0.000254	<0.000040 *
Lithium (Li)-Dissolved	mg/L	0.0002	0.164	0.217
Magnesium (Mg)-Dissolved	mg/L	0.03	4.43 *	4.29 *
Manganese (Mn)-Dissolved	mg/L	0.000005	0.0724	0.0949
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00001	0.00115	0.000793
Nickel (Ni)-Dissolved	mg/L	0.00005	0.0143	0.0162
Phosphorus (P)-Dissolved	mg/L	0.05	8.56	9.85
Potassium (K)-Dissolved	mg/L	0.05	27.3 *	27.6 *
Rhenium (Re)-Dissolved	mg/L	0.000005	<0.0000050	<0.000050
Rubidium (Rb)-Dissolved	mg/L	0.000005	0.0219	0.023
Selenium (Se)-Dissolved	mg/L	0.00004	0.000267	0.000312
Silicon (Si)-Dissolved	mg/L	0.05	3.5	3.96
Silver (Ag)-Dissolved	mg/L	0.000005	0.0000183	<0.000050
Sodium (Na)-Dissolved	mg/L	0.2	85.1 *	93.1 *

Strontium (Sr)-Dissolved	mg/L	0.00001	0.0171	0.0224
Tellurium (Te)-Dissolved	mg/L	0.00001	<0.000010	<0.000010
Thallium (TI)-Dissolved	mg/L	0.000001	0.0000062	0.0000155
Thorium (Th)-Dissolved	mg/L	0.000005	0.0000111	<0.0000050
Tin (Sn)-Dissolved	mg/L	0.00001	0.000099	0.000059
Titanium (Ti)-Dissolved	mg/L	0.00005	<0.000050	<0.000050
Tungsten (W)-Dissolved	mg/L	0.00001	0.000057	0.000044
Uranium (U)-Dissolved	mg/L	0.000001	0.0000138	0.0000116
Vanadium (V)-Dissolved	mg/L	0.00001	0.000446	0.000602
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000137	0.0000213
Zinc (Zn)-Dissolved	mg/L	0.0001	1.45	3.86
Zirconium (Zr)-Dissolved	mg/L	0.00001	0.000108	0.000031
Biochemical Oxygen Demand	mg/L	2	2.9	<2.0
* = Result Qualified				

## **SWQ-01 Influent**

ALS		Sample ID	JER-SWQ-01 INFLUENT	JER-SWQ-01 INFLUENT
4/25/2012		ALS ID	L1123950-2	L1128978-1
Multiple Work Orders		Date Sampled	3/14/2012 6:15:00 AM	3/28/2012 12:00:00 AM
Analyte	Units	LOR	Water	Water
Hardness (as CaCO3)	mg/L	1.3	-	-
Temperature	Degree C	1	25	25
Total Suspended Solids	mg/L	3	415	206
Total Dissolved Solids	mg/L	10	410	535
Turbidity	NTU	0.1	135	157

Acidity (as CaCO3)	mg/L	5	43.6	63.4
Alkalinity, Total (as CaCO3)	mg/L	5	185	208 *
Ammonia, Total (as N)	mg/L	0.005	26.7	29.4
Bicarbonate (HCO3)	mg/L	5	225	254 *
Carbonate (CO3)	mg/L	5	<5.0	<5.0 *
Chloride (CI)	mg/L	0.5	106	172
Conductivity (EC)	uS/cm	0.2	814	1070 *
Fluoride (F)	mg/L	0.05	0.391	<0.50 *
Hardness (as CaCO3)	mg/L	n/a	35.6	32.5
Hydroxide (OH)	mg/L	5	<5.0	<5.0 *
Ion Balance	%	n/a	107	96.8
Nitrate and Nitrite (as N)	mg/L	0.006	<0.0060	0.0082
Nitrate (as N)	mg/L	0.006	<0.0060	0.0082
Nitrite (as N)	mg/L	0.002	<0.0020	<0.02 *
Total Kjeldahl Nitrogen	mg/L	0.05	52.3	51.7
рН	рН	0.1	7.23	7.31 *
Orthophosphate-Dissolved (as P)	mg/L	0.001	8.02 *	8.02 *
Phosphorus (P)-Total Dissolved	mg/L	0.001	7.88 *	9.14 *
Phosphorus (P)-Total	mg/L	0.001	11.5 *	12.2 *
TDS (Calculated)	mg/L	n/a	381	467
Sulfate (SO4)	mg/L	0.05	24.2	8.55
Total Inorganic Carbon	mg/L	1	17.5	47.8
Total Organic Carbon	mg/L	1	120	146
Fecal Coliforms	CFU/100mL	1	450000	2200000
Calcium (Ca)-Dissolved	mg/L	0.03	8.2	6.91
Magnesium (Mg)-Dissolved	mg/L	0.03	3.68	3.71
Potassium (K)-Dissolved	mg/L	0.05	25	24.4
Sodium (Na)-Dissolved	mg/L	0.2	103	127

Biochemical Oxygen Demand	mg/L	2	297	244
* = Result Qualified				

## SWQ-12 Carat lake pump house

ALS		Sample ID	JER-AEM-12 (CARAT INTAKE)
4/25/2012		ALS ID	L1123950-1
Multiple Work Orders		Date Sampled	3/14/2012 6:45:00 AM
Analyte	Units	LOR	Water
Hardness (as CaCO3)	mg/L	1.3	6.2
Temperature	Degree C	1	25
Total Suspended Solids	mg/L	3	<3.0
Total Dissolved Solids	mg/L	10	14
Turbidity	NTU	0.1	0.35
Acidity (as CaCO3)	mg/L	5	5.6
Alkalinity, Total (as CaCO3)	mg/L	5	5.6
Ammonia, Total (as N)	mg/L	0.005	<0.050
Bicarbonate (HCO3)	mg/L	5	6.9
Carbonate (CO3)	mg/L	5	<5.0
Chloride (CI)	mg/L	0.5	<0.50
Conductivity (EC)	uS/cm	0.2	33.2
Fluoride (F)	mg/L	0.05	<0.050
Hardness (as CaCO3)	mg/L	n/a	6.4
Hydroxide (OH)	mg/L	5	<5.0
Ion Balance	%	n/a	Low EC
Nitrate and Nitrite (as N)	mg/L	0.006	0.0368
Nitrate (as N)	mg/L	0.006	0.0368

Nitrite (as N)	mg/L	0.002	<0.0020
рН	рН	0.1	6.84
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	0.0027
TDS (Calculated)	mg/L	n/a	7.6
Sulfate (SO4)	mg/L	0.05	1.04
Total Inorganic Carbon	mg/L	1	1.7
Total Organic Carbon	mg/L	1	4
Fecal Coliforms	CFU/100mL	1	<1
Mercury (Hg)-Total	mg/L	0.00005	<0.000050
Aluminum (Al)-Total	mg/L	0.0002	0.0118
Antimony (Sb)-Total	mg/L	0.000005	0.0000074
Arsenic (As)-Total	mg/L	0.00002	0.000178
Barium (Ba)-Total	mg/L	0.00002	0.00262
Beryllium (Be)-Total	mg/L	0.000002	0.0000031
Bismuth (Bi)-Total	mg/L	0.000001	<0.000010
Boron (B)-Total	mg/L	0.005	<0.0050
Cadmium (Cd)-Total	mg/L	0.000005	0.0000071
Calcium (Ca)-Total	mg/L	0.03	1.35
Cesium (Cs)-Total	mg/L	0.000005	<0.0000050
Chromium (Cr)-Total	mg/L	0.00005	0.000075
Cobalt (Co)-Total	mg/L	0.000005	0.0000265
Copper (Cu)-Total	mg/L	0.00005	0.00244
Gallium (Ga)-Total	mg/L	0.00005	<0.000050
Iron (Fe)-Total	mg/L	0.01	0.05
Lead (Pb)-Total	mg/L	0.000005	0.000587
Lithium (Li)-Total	mg/L	0.0002	0.00084

Magnesium (Mg)-Total	mg/L	0.03	0.723
Manganese (Mn)-Total	mg/L	0.00005	0.00588
Molybdenum (Mo)-Total	mg/L	0.00001	0.000052
Nickel (Ni)-Total	mg/L	0.00005	0.000544
Phosphorus (P)-Total	mg/L	0.05	<0.050
Potassium (K)-Total	mg/L	0.05	0.329
Rhenium (Re)-Total	mg/L	0.000005	<0.000050
Rubidium (Rb)-Total	mg/L	0.00005	0.00116
Selenium (Se)-Total	mg/L	0.00004	<0.000040
Silicon (Si)-Total	mg/L	0.05	0.353
Silver (Ag)-Total	mg/L	0.000005	0.0000138
Sodium (Na)-Total	mg/L	0.2	0.64
Strontium (Sr)-Total	mg/L	0.00001	0.00651
Tellurium (Te)-Total	mg/L	0.00001	<0.000010
Thallium (TI)-Total	mg/L	0.000001	0.0000011
Thorium (Th)-Total	mg/L	0.000005	0.0000072
Tin (Sn)-Total	mg/L	0.00001	<0.000010
Titanium (Ti)-Total	mg/L	0.00005	<0.000050
Tungsten (W)-Total	mg/L	0.00001	<0.000010
Uranium (U)-Total	mg/L	0.000001	0.000247
Vanadium (V)-Total	mg/L	0.00001	0.000032
Yttrium (Y)-Total	mg/L	0.000005	0.0000749
Zinc (Zn)-Total	mg/L	0.0001	0.0118
Zirconium (Zr)-Total	mg/L	0.00001	0.000062
Dissolved Metals Filtration Location		n/a	LAB
Aluminum (AI)-Dissolved	mg/L	0.0002	0.00935
Antimony (Sb)-Dissolved	mg/L	0.000005	0.0000074
Arsenic (As)-Dissolved	mg/L	0.00002	0.000165

Barium (Ba)-Dissolved	mg/L	0.00002	0.00191
Beryllium (Be)-Dissolved	mg/L	0.000002	<0.0000020
Bismuth (Bi)-Dissolved	mg/L	0.000001	<0.000010
Boron (B)-Dissolved	mg/L	0.005	0.0064
Cadmium (Cd)-Dissolved	mg/L	0.00005	0.0000057
Calcium (Ca)-Dissolved	mg/L	0.03	1.36 *
Cesium (Cs)-Dissolved	mg/L	0.000005	<0.0000050
Chromium (Cr)-Dissolved	mg/L	0.00005	0.00009
Cobalt (Co)-Dissolved	mg/L	0.000005	0.0000184
Copper (Cu)-Dissolved	mg/L	0.00005	0.00201
Gallium (Ga)-Dissolved	mg/L	0.00005	<0.000050
Iron (Fe)-Dissolved	mg/L	0.01	0.013
Lead (Pb)-Dissolved	mg/L	0.000005	0.000342
Lithium (Li)-Dissolved	mg/L	0.0002	0.00058
Magnesium (Mg)-Dissolved	mg/L	0.03	0.721 *
Manganese (Mn)-Dissolved	mg/L	0.00005	0.00506
Mercury (Hg)-Dissolved	mg/L	0.00005	<0.000050
Molybdenum (Mo)-Dissolved	mg/L	0.00001	0.000045
Nickel (Ni)-Dissolved	mg/L	0.00005	0.000506
Phosphorus (P)-Dissolved	mg/L	0.05	<0.050
Potassium (K)-Dissolved	mg/L	0.05	0.324 *
Rhenium (Re)-Dissolved	mg/L	0.00005	<0.0000050
Rubidium (Rb)-Dissolved	mg/L	0.000005	0.000817
Selenium (Se)-Dissolved	mg/L	0.00004	<0.000040
Silicon (Si)-Dissolved	mg/L	0.05	0.332
Silver (Ag)-Dissolved	mg/L	0.000005	<0.0000050
Sodium (Na)-Dissolved	mg/L	0.2	0.62 *
Strontium (Sr)-Dissolved	mg/L	0.00001	0.00591
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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	0.0000074
Tin (Sn)-Dissolved	mg/L	0.00001	<0.000010
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	0.000151
Vanadium (V)-Dissolved	mg/L	0.00001	0.000016
Yttrium (Y)-Dissolved	mg/L	0.000005	0.0000637
Zinc (Zn)-Dissolved	mg/L	0.0001	0.0184
Zirconium (Zr)-Dissolved	mg/L	0.00001	0.000058
Biochemical Oxygen Demand	mg/L	2	<2.0
* = Result Qualified			

## On site drinking water

ALS		Sample ID	BEFORE FILTER	MEN'S BATHROOM	COFFEE STATION	KITCHEN	F-WING BATHROO M
4/25/2012		ALS ID	L1123946-1	L1123946-2	L1123946- 3	L1123946- 4	L1123946- 5
Multiple Work Orders		Date Sampled	3/14/2012 5:50:00 AM	3/14/2012 5:50:00 AM	3/14/2012 5:50:00 AM	3/14/2012 5:50:00 AM	3/14/2012 5:50:00 AM
Analyte	Units	LOR	Water	Water	Water	Water	Water
Escherichia Coli	MPN/100 mL	1	<1	<1	<1	<1	<1
Total Coliforms	MPN/100 mL	1	<1	<1	<1	<1	<1