From: Phyllis Beaulieu
To: Robin Ikkutisluk
Subject: FW: Notification to begin dewatering from the PKCA to Stream C3 - Jericho Diamond Mine
Date: Thursday, August 09, 2012 11:13:08 AM
Attachments: B246481-R2012-06-27_08-15-29_R006.pdf
B246481-R2012-06-27_08-15-29_R006_Att_0_DP0387_Shear-D.PDF
B246481-R2012-06-27_08-15-29_R006_Att_1_DP0387_-T_JER-SWQ-04.PDF
B246481-R2012-06-27_08-15-29_R006_Att_2_DP0387_SWQ_04-CD.PDF
B246481-R2012-06-27_08-15-29_R006_Att_3_PKS72H_data.PDF
L1156974_COA.PDF

From: Wes Atchison [mailto:watchison@sheardiamonds.com]
Sent: Thursday, June 28, 2012 1:50 PM
To: Eva Paul; Phyllis Beaulieu
Cc: Julie Lassonde; Andrew Uyarrai; Kyle Conway; Allison Rippin Armstrong; Luigi Torretti; Info at NIRB
Subject: Notification to begin dewatering from the PKCA to Stream C3 - Jericho Diamond Mine

Dear Eva and Phyllis:

In accordance with Part F, Item 15, of water licence # 2AM-JER1119, Shear is providing this written notification of our intent to begin dewatering of from Cell C of the Processed Kimberlite Containment Area (PKCA) to Stream C3. Shear has now received all of the analytical results for the samples that were collected on June 4th, 2012. The table below summarizes the criteria provided in Part F, Item 16 of our water licence. Additionally, the results required in Schedule I, Item 2 (v) are included in the table below. The certificates from the lab are attached to this email for your review.

Parameter	Maximum Average Concentration	Maximum Allowable Grab Sample Concentration	SWQ-04 Actual Value from Maxxam Job#B246481 and ALS work order #L1156974
pH	6.0 to 8.8	6.0 to 8.8	7.41
Total Suspended Solids (TSS) (mg/L)	15	25	1.2
Total Dissolved Solids (TDS) (mg/L)	2000	4000	62
Chloride – Cl	500	1000	3.1
Total (T) – Al (mg/L)	1.5	3.0	0.0424
Dissolved (D) – Al (mg/L)	1.0	2.0	0.0223
T-As (mg/L)	0.05	0.1	0.000265
T-Cd (mg/L)	0.0012	0.0024	0.0000084
T-Cr (mg/L)	0.087	0.17	0.00012
T-Cu (mg/L)	0.02	0.04	0.00152
T-Pb (mg/L)	0.01	0.02	0.0000676
T-Mo (mg/L)	0.73	1.5	0.00188
T-Ni (mg/L)	0.05	0.1	0.00154
U (mg/L)	0.5	0.1	0.00387
T-P (mg/L)	0.2	0.4	0.009
T-Zn (mg/L)	0.25	0.50	0.00246

NH_3-N (mg/L)	6	12	<0.050
T-Ni (mg/L)	1	2	0.00154
T-NO_3-N (mg/L)*	28*(20)	56*(40)	5.3
T-NO_2-N (mg/L)	2.5*(1)	5*(2)	0.018
Biological Oxygen Demand (5 day) BOD_5 (mg/L)	15	25	<2.0
Fecal Coliforms (CFU/100ml)	10	20	<1.0
Total Extractable Hydrocarbons (mg/L)	3.0	6.0	<0.10
Acute Lethality to Rainbow Trout			pass
Acute Lethality to *Daphnia magna*			pass
Chronic testing using *Ceriodaphnia dubia*			pass
Chronic testing using *Pseduokirchneriella subcapita*			pass

Discharge will be conducted in accordance with Part F, Item 6 and Item 19.

If you have any questions, please do not hesitate to contact me.

Sincerely,

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Wes Atchison
(778) 837-2750
Environmental Technician
watchison@sheardiamonds.com

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