RedHawk Environmental Consulting, Ltd.

Specializing in Project Management and Remediation Technologies

FAXED 1-14-03

January 13, 2003

Sent Via US Mail

COPY

Mr. Mohammad Qureshi
State of New Jersey
Department of Environmental Protection (NJDEP)
Bureau of Southern Case Management, 5th Floor
401 East State Street
P.O. Box 433
Trenton, NJ 08625

RE: **Update on OSC Treatment System Installation and Start-up**
North Brunswick Gulf
1696 Georges Road, North Brunswick, NJ
UST #0101800
Case #: 01-08-30-1546-07

Dear Mr. Qureshi:

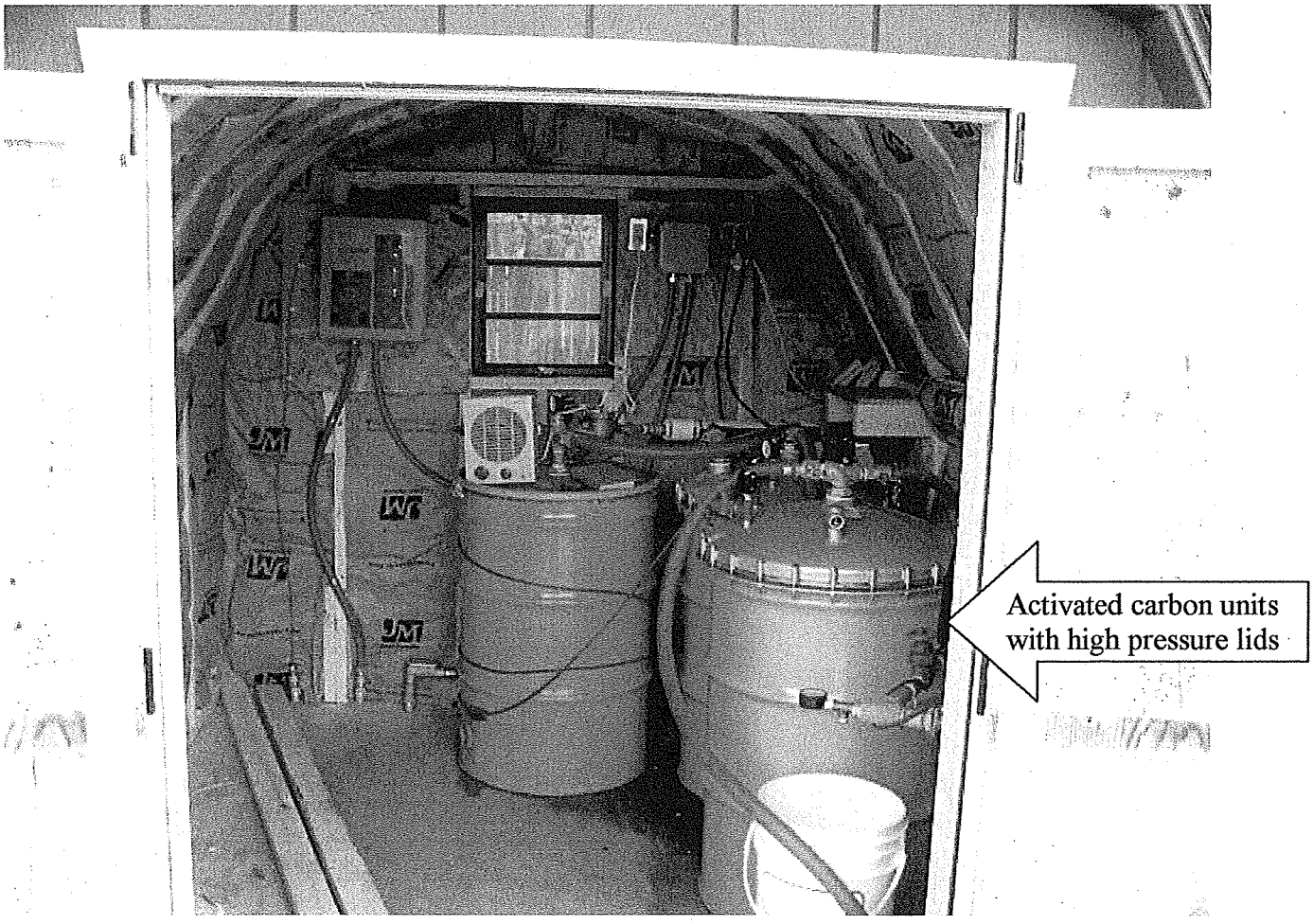
This correspondence is intended to provide you with an update on activities completed to date by RedHawk Environmental Consulting, Ltd. (RedHawk) and as assisted by Environmental Maintenance Company, Inc. (Environmental Maintenance) with respect to the On Scene Coordinator (OSC) emergency discharge authorization granted by the Department for the above referenced North Brunswick Gulf facility.

As your office is aware, to preclude the possibility of a surface release, the newly constructed groundwater recovery and treatment system at the site was started on Wednesday, January 8, 2003. Attached are several photographs of the treatment system.

Upon start-up (at 8:25 PM and 8:30 PM) samples of the water treatment system influent and effluent, respectively, were secured for laboratory analysis of VOs + 10, MTBE and TBA in compliance with Kathy Katz's verbal request to do so if the system was started before the OSC was formally approved. On January 9, 2003 the OSC authorization was approved and faxed to our office. The influent and effluent of the water treatment system were sampled again on January 10, 2003 as the monitoring requirements were different than those verbally requested by Ms. Katz. The January 10, 2003 sampling was conducted in compliance with the analytical requirements specified in the OSC authorization letter.

Since the samples collected on January 8, 2003 were to be analyzed for analytical parameters included in the samples to be run on the samples collected on January 10, 2003, RedHawk placed the first samples collected on January 8, 2003 on hold at the laboratory to avoid generation of

duplicate of data. **If you concur with <u>not</u> analyzing the samples collected on January 8, 2003, <u>no response is required</u>.**



North Brunswick Gulf Treatment System Interior

Water Treatment System (left) and Recovery Well (right) in excavation; influent lines to treatment system in between

As of January 11, 2003 at approximately 11:30 AM the system had pumped and treated 20,835 gallons of water, which averages to a discharge rate of approximately 5.3 gallons per minute (gpm) (**see photographs below**). The water level in the excavation had dropped approximately 15 inches since the system was started and was approximately 2½ feet below the top of the excavation (at the low or southern end of the excavation). In light of these results the threat of water overflowing the excavation has been addressed successfully by the installation and operation of the treatment system. The system will continue to pump water until the depth to water at the low end of the excavation is approximately 6½ feet from the top of the excavation (or 8½ feet from the up gradient or northern end of the excavation) as requested by the County officials. We expect this will require several days depending on weather conditions. At that time the pump sensor will turn the pump off until such time that the water level rises approximately 4 inches (from recharge), at which point the sensor will turn the groundwater recovery pump back on.

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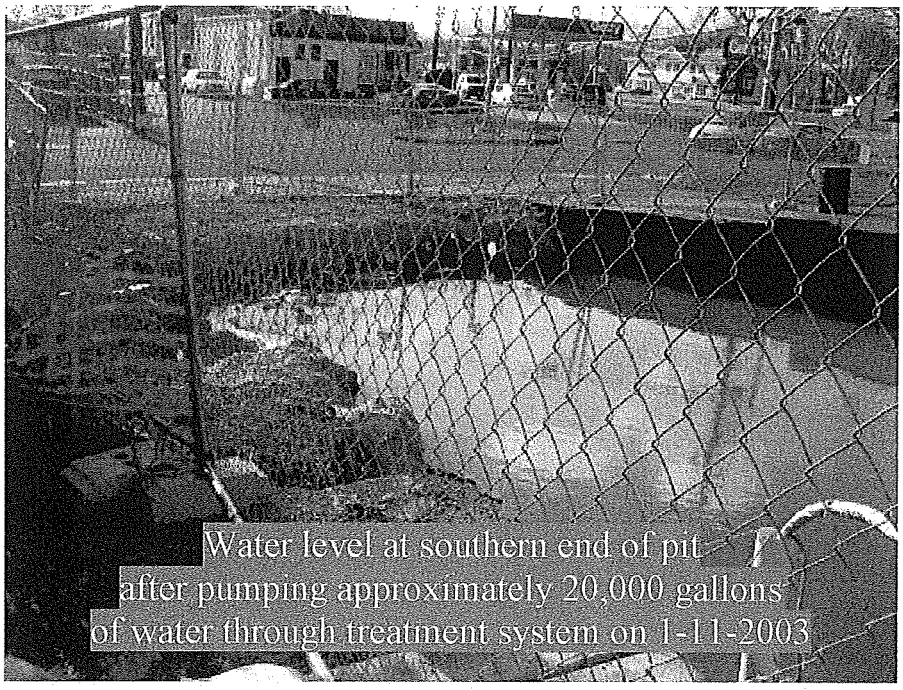
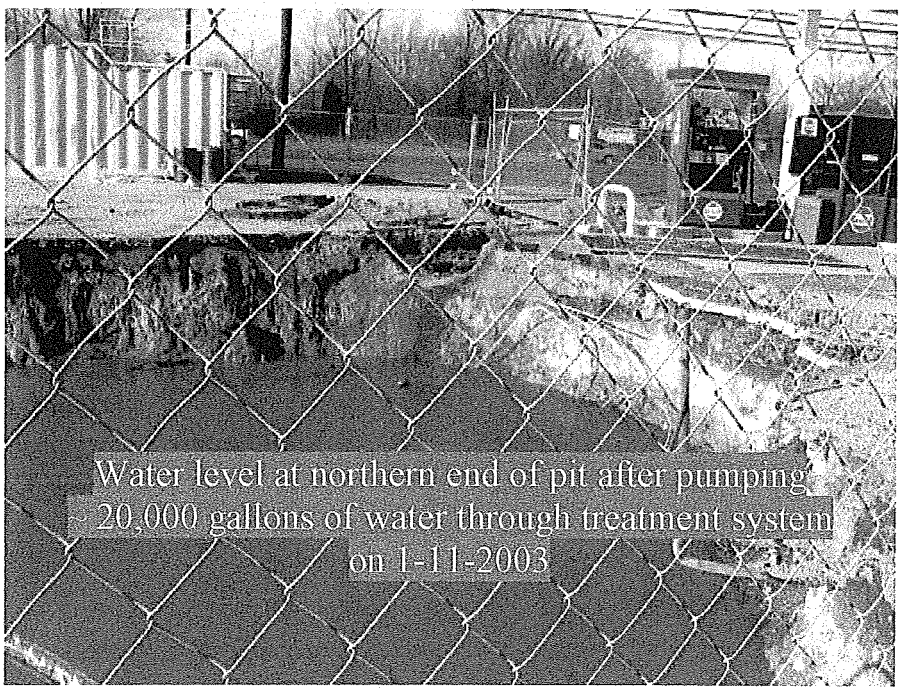
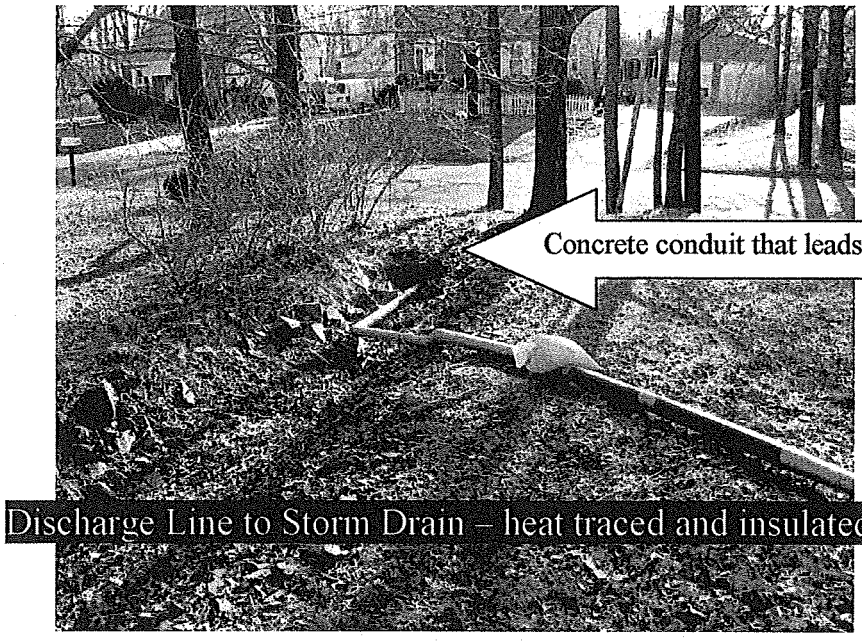


Water level at southern end of pit after pumping approximately 20,000 gallons of water through treatment system on 1-11-2003



Water level at northern end of pit after pumping 20,000 gallons of water through treatment system on 1-11-2003

As previously related by Jill Crosbie of RedHawk, the treated groundwater is directed to a storm drain on Washington Place (the specific location is approximately 150 feet southeast of the intersection of Washington Place and Route 130/Georges Road) as shown in **Figure 1 and the photograph below**.



On January 9, 2003 RedHawk confirmed the outfall of the storm drain is Farrington Lake located approximately 1,510 feet southeast of the site. On January 9, 2003 RedHawk also discovered two surface water intakes in Farrington Lake, both of which we were not aware of at the time we submitted the information to yourself and Kathy Katz to secure the OSC emergency discharge authorization. The location of those intakes in relation to the storm drain outfall are shown on **Figure 1**. The closest surface water intake is located approximately 1,965 feet from the drain outfall and the other intake is located approximately 5,150 feet from the drain outfall.

If you have any questions regarding this correspondence please feel free to contact Jill Crosbie or myself at 1-800-311-6115. When we receive the results of the influent and effluent samples we will forward them on to your attention as required by the OSC authorization letter. Thank you for your and the NJDEP's assistance and cooperation with this emergency discharge.

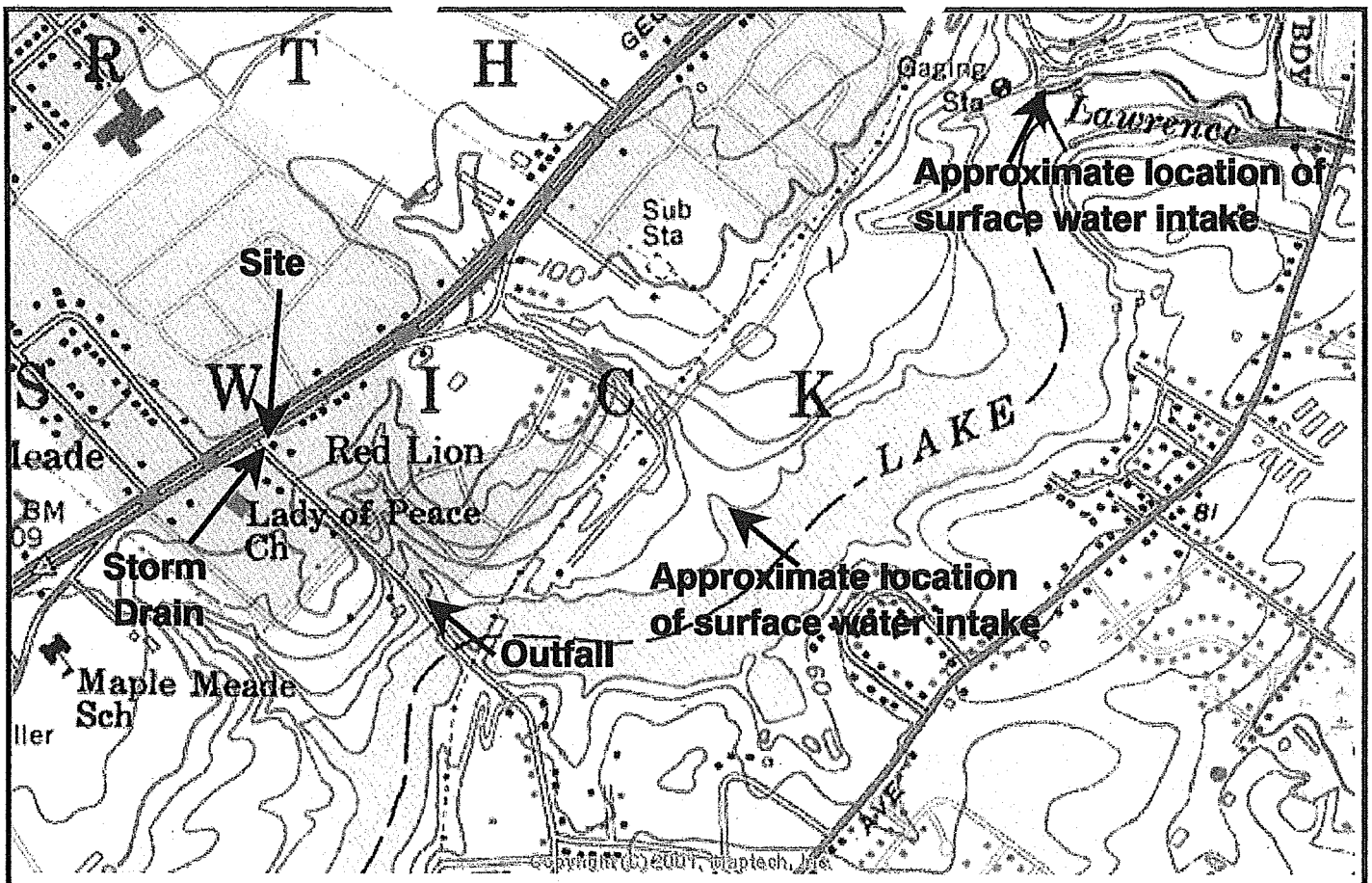
Sincerely,
RedHawk Environmental Consulting, Ltd.

JRC for Frank Jasiulewicz

Frank Jasiulewicz, P.G., SSE
Senior Project Geologist

ATTACHMENT
Figure 1

Cc: Kathy Katz
George J. Grochala
Walter Lapp
Jill Crosbie



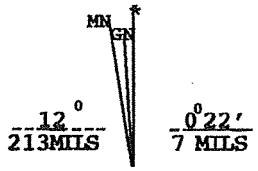
North Brunswick 7.5 Minute Quadrangle

Note: 1) Storm drain receiving treated groundwater is located on Washington Place approximately 150 feet southeast of intersection of Washington Place and Rt 130 (Georges Road).

2) Storm drain outfalls to Farrington Lake approximately 1,510 feet to the southeast.

3) Closest surface water intake is approximately 1,965 feet downstream from storm drain outfall. This intake is owned by by North Brunswick.

4) Another surface water intake is approximately 5,150 feet downstream from outfall, which is owned by New Brunswick.



UTM Grid and 1981 Magnetic North Declination at center of sheet

(approximate scale in feet)

RedHawk Environmental
2845 Hale Hollow Road, Bridgewater Corners, VT 05035
214 Skyesville Road, Wrightstown, NJ 08562

File : intakes

Date: 1/13/03

Figure 1 Outfall & Surface Water Intakes Locations

North Brunswick Gulf
1696 Georges Road
North Brunswick, NJ