

## Hooker - Hyde Park Landfill Community Monitoring

### Niagara River Gorge Inspections

August 11, 2004 and August 19, 2006

Photos and Notes by Will Welling and Brian Sadowski, NYSDEC; and Jim Thornton, CRA

2004 Attendees were Don Mcleod, GSHI; Frank Barone, MSRMI; Jon Williams, CRA for MSRMI; Jim Thornton, CRA for MSRMI; Stephanie Baker, MSRMI; Tamara Raby, Earth Tech Consultants (for USEPA); Matt Forcucci, NYSDOH; Brian Sadowski, NYSDEC; and Will Welling, NYSDEC.

2006 attendees were Don Mcleod, GSHI; Jim Thornton, CRA for MSRMI; Tamara Raby, EarthTech Consultants (for USEPA); Will Welling, NYSDEC.



NYSDEC 2004: GF-15. Dry, no odor, "same as last year," said Jim Thornton. This seep location is in the Pekin/Gothic formations.  
NYSDEC 2006: 8:33AM Seep 1. Very dry, normal vegetation.

CRA 2004: Seep 1. Dry, sparse vegetation, seep basin is clear and dry, no odor. Seep conditions have not changed since 2000.



NYSDEC 2004: Rock wall in the vicinity of Culvert Number 8 - near the base of the contact between Gothic and DeCew formations.  
NYSDEC 2006: 8:40AM Culvert 8. Dry. Culvert 8 inlet is buried beneath rocks. No odor.

CRA 2004: Culvert 8 Inlet and outlet clear and dry. No action required. Same as 2000 - 2003.



NYSDEC 2004: View back up the road, up-section. Foreground vegetation edge on right obscures Culvert 7. Both the inlet and outlet are obscured by trees and cover, "same as last year."

NYSDEC 2006: 8:47AM No photo taken.

CRA 2004: Culvert 7. Dry, no flow, inlet buried. Outlet not observed due to heavy vegetation.





NYSDEC 2004: GF-16 located at the contact between the Lockport (above) and Rochester (below).  
NYSDEC 2006: 8:45AM GF-16. Moist.

CRA 2004: Seep 16. Approximately 320' north of the north fence line of seep 1. Slightly moist rock face at north and south ends. No action required. Same conditions as 2000-2003.



NYSDEC 2004: GF-S2, moist rock wall, vegetation growing on the fencing, except for 1-3 gpm flow, it's "the same as last year."  
NYSDEC 2006, 8:50AM, Seep 2 is located at the barrier with a mark.

CRA 2004, Seep 2 (Culv. 6). Damp area 0 to 30 feet north of seep (from Lockport/Rochester contact). Steady flow (~1 gpm), minor green algae and grass on face of Rochester Shale, several wet and dripping areas, seep basin totally full of rock. No fence present. Same conditions as noted in 2000- 2003.

Seep 2. (Ditch line) No odor, green moss, heavy vegetation. Heavy talus in ditch. Same conditions as in 2002, 2003.

Culvert 6. Standing water at the outlet, water is clear, no odor, no flow. Inlet buried at Seep 2. No action required. Same as 2000 - 2003.



NYSDEC 2004: Culvert 6 just below the vegetation and slightly to the left, out of view: water is flowing past. "I don't think anything goes in here."  
NYSDEC 2006: 9:00am Culvert 6, standing water.

CRA 2004: Culvert 6. Standing water at the outlet, water is clear, no odor, no flow. Inlet buried at Seep 2. No action required. Same as 2000 - 2003.



NYSDEC 2004: GF-S17 Slight drip. "Same as last year," said Tami.

CRA 2004: Seep 17a. North - area approximately 150' north of the north wall of seep 2. Slightly dripping at the Irondequoit/Reynales contact. Portion of Irondequoit is damp. No action required. Basically same conditions as previous years.

Seep 17b. South - dry. No action required.

NYSDEC 2006: 9:00AM, Drips at 17A, (slightly north)/ Rust on screen over rock wall.





NYSDEC 2004: GF-S14, at the Irondequoit / Renaldi contact. Renaldi is the more fractured formation. This seep is about 30 feet wide. "Same as last year."



NYSDEC 2006: 9:00AM, Drips at 17A, (slightly north)/ Rust on screen over rock wall. DEC 2006: 9:00AM, Jim and Tami standing in front of Seep 14. We had difficulty determining Seep 17 from Seep 14.

CRA 2004: Seep 14. Approximately 80' to 100' south of the south fence line of seep 3. Wet face on Reynales approximately 30' wide. Slight dripping originates from the Irondequoit/Reynales contact. No action required. Same conditions as 2000-2003.



CRA 2004: Seep 3 (Top of seep). Very heavy *Phragmites* reeds on north and south sides of the concrete box Bloody Run Culvert. Area is dry Area fenced. Same conditions as in 2002, 2003.



NYSDEC 2004: This location is in the vicinity of the Bloody Run Culvert. Heavy *Phragmites* vegetation, wet location. The culvert shows a slight flow. This damp rock face is the Upper Grimsby.

NYSDEC 2006: 9:23AM, Culvert 5.

CRA 2004, continued: Seep 3 (Bottom of seep) Culvert 5. Heavy vegetation. Seep basin is clear. Rocks are wet but no standing water in basin (deepest portion) at Bloody Run Culvert. Remediated. Same as 2002 and 2003. Culvert 5. Inlet is open. Slightly flowing. Outlet has standing water, slight flow. No odor. No action required.



NYSDEC 2004: No comment. NYSDEC 2006: 9:27AM, *Phragmites* growing near Seep 18.

CRA 2004: Seep 18. Seep is 0 to 75' north of the north wall of seep 3. Vegetation on dripping rock face (Upper Grimsby). Ditch line is dry. Basically the same conditions as 2003.





NYSDEC 2004: GF-S4, flowing. Tall cliff, slime hanging from rock ledge. Active flow, 3-5 gpm flow at the time of this walk.  
NYSDEC 2006: 9:27AM, Seep 4. No observed flow but it may be damp. Heavy vegetation. A little further down, about 1 gpm dripping flow. Heavy "snapdragons" *Impatiens capensis* and vines.

CRA 2004: Seep 4. Flowing water (4 to 5 gpm). Heavy vegetation, no odor. Fence in place. Same as 2002 and 2003.



NYSDEC 2004: Rust on fencing at GF-S4 and Culvert 3 is caused by road salt in plow-thrown snow.  
NYSDEC 2006: 9:27AM, Heavy vegetation.

CRA 2004: Culvert 3. Inlet is open. Dry soil. Outlet is damp. No action required. Same as 2000 -2003.



NYSDEC 2004: Culvert 2 has slight flow. There is growth of Staghorn sumac with a lot of dead branches and wilted vegetation at this location (not shown).  
NYSDEC 2006: 9:27AM, No flow. Dead sumac trees.

CRA 2004: Inlet is buried. No odor. Outlet has significant vegetation, a slight flow (less than 0.5 gpm), moss, no odor. No action required. Same as 2000 -2003. 2006, right.



NYSDEC 2004: GF-S20 and Culvert 2. Water is dripping from the bowl-shaped, concave, cliff face.  
NYSDEC 2006: 10:05AM, Seep 20.

CRA 2004: Seep 20. Area 80' to 100' north of the north fence line of Seep 4 at the base of the Grimsby Sandstone down into the Power Glen Shale. Slightly dripping. No action required. Basically the same conditions as in 2002 and 2003.





NYSDEC 2004: GF-S19. Damp area, no visible flow in ditch.  
NYSDEC 2006: 10:12AM Damp.  
CRA 2004: Seep 19. Approximately 120' south of the south end of the wing wall. Queenston/Whirlpool rock face damp. No visible flow in ditch. Heavy vegetation. No action required. Basically the same conditions as in 2002 and 2003.



NYSDEC 2004: Seep 12 is flowing 30-40 gpm. Culvert 1 is dry (no Photo). We then left the power authority roadway and hiked along the river edge trail. It began to rain.  
NYSDEC 2006: 10:12AM Running flow 10 - 20 gpm.  
CRA 2004: Seep 12. Steady flow out of culvert from NYPA south tunnel. Flow approximately 30 to 40 gpm. No odor, noticeable algae in pipe. Sampling discontinued after 2001 due to history of non-detects.



NYSDEC 2004: No comment.  
NYSDEC 2006: 10:19AM, can't see the outlet, heavy vegetation.  
Culvert 1 (background) and Culvert 12 (foreground).  
CRA 2004: Culvert 1. Picks up ditch flow to Drop Inlet at bottom of NYPA access road. Dry. No action required. Same as 2000 -2003.





NYSDEC 2004: **Bloody Run**. When the weather is hot, one can smell volatiles at this location. There was no odor this year, Brian commented.  
NYSDEC 2006: 10:33AM, Fenced-in vine-covered fence. Algae on talus. No visible flow.

CRA 2004: **Bloody Run**. Fenced-in area by the river shoreline. No visible flow, no odor, heavy talus. Fence is in place and in good condition. Same as in 2000 through 2003.



NYSDEC 2004: **GF-S11** was dry. Remains of railroad stonework can be present at this location and others along the trail along the river edge.  
NYSDEC 2006: 10:33, Dry.

CRA 2004: **Seep 11a**. Inlet area at water's edge covered with local rock. Sediment infilling. Remediated. Same as 2000, 2001, 2002, and 2003  
**Seep 11b**. Dry (south of Bloody Run Fence) Same as 2000, 2001, 2002, and 2003.



NYSDEC 2004: **Seep 8**. Approximately 5 gpm flow. Some vegetation, no odor. No action required.  
NYSDEC 2006: 10:33AM, very wet, tiny flow. Vegetation.

CRA 2004: No comment.



NYSDEC 2004: **GF-S21**.  
NYSDEC 2006: 10:45AM, **Seep 21** photographed near the river edge up from two potholes. We weren't sure this was the seep location. It was dry.

CRA 2004: **Seep 21**. Area 375' south of **Seep 7** (Devil's Hole Stairs) by the river - dry. Same as 2001, 2002, and 2003.





NYSDEC 2004: Garfield Avenue Sewer storm water overflow. Smell of sewage. Since it was raining, we didn't linger long at this location!  
NYSDEC 2006: 10:33AM, This locale really stinks of sewer! Tomatoes were growing as usual. Walkway is totally destroyed.

CRA 2004: Garfield Avenue Sewer. No flow at exposed original outlet, typical sewer odor, continual caving into former archway (Whirlpool Sandstone) Standing water in pipe. Additional washouts since 1998. Parks Dept built a pedestrian walkway (with two 36" diameter culverts) across the path in the summer of 1999. One culvert inlet completely buried.



NYSDEC 2004: GF-S7. 7c flow beneath rocks.  
CRA 2004: Comments below

7e and 7h are located along the stone steps. At 7h we could hear water running beneath the stones.  
NYSDEC 2006: 11:00AM, GF-S7.

#### 2004 CRA COMMENTS BELOW AND RIGHT:

Seep 7 a,b Covered with local rock. Heavy vegetation. Remediated. Same as 2001-2003.

Seep 7 c. Some exposed channel flow between rocks. Remediated. Same as 2001-2003.

Seep 7 d. Wet and flowing (15 to 20 gpm) over top of Irondequoit (waterfall). No odor. Sampled September 24, 2003. Non-Detect for all parameters - same as 1999, 2000, 2001, and 2002.

Seep 7 e,f,g,h,i. Flowing water beneath rocks. Heavy vegetation. Some exposed channel flow. No action required.



NYSDEC 2004: Seep 7d, wet and flowing (15 to 20 gpm) over top of Irondequoit (waterfall).  
NYSDEC 2006: 11:00AM, Seep 7d, flowing waterfall

CRA 2004: Seep 7d, wet and flowing (15 to 20 gpm) over top of Irondequoit (waterfall). No odor. Sampled September 24, 2003. Non-Detect for all parameters - same as 1999, 2000, 2001, and 2002.





NYSDEC 2004: Not certain of Seep 5's location.  
NYSDEC 2006: 11:45AM, Seep 5. Occasional drip.

CRA 2004: Seep 5. Damp rock face, slight dripping. Remediated. Same as 2001-2003.



NYSDEC 2004: No comment.  
NYSDEC 2006: 11:33AM, Moist.

2004: Seep 6. Moist rock face with slight dripping. Remediated. Same as 2001-2003.



NYSDEC 2004: GF-S3. Top of the box culvert connected to Garfield Street Sewer. There's water flowing in the culvert.  
NYSDEC 2006: 11:45AM, GF-S3. *Phragmites* are growing below at the location of the seep.

CRA 2004: Top of the box culvert connected to Garfield Avenue sewer. there's water flowing in the culvert. End of 2004 walk at 11:30AM.