

Town of Wilton

Stormwater Enforcement Action Summary

Case: 21-01 Falcon Ridge Development Sediment Discharge into Frog Pond

Address: Frog Pond D-093 and Falcon Ridge Road 3-4

Description: Frog Pond (approximately located 42°50'45.6"N 71°43'44.8"W) is a mature Town of Wilton property that possess an artificial pond created in the past by damming the so-called "Frog Pond Brook". It is currently a conservation area adjacent to the Town of Wilton's "Carnival Hill" property, and abuts the Milford town line. In fact, parts of Frog Pond and its larger wetlands area fall wholly within the Town of Milford, and is owned directly by the Town of Milford (MBLU 3 / 4) as conservation areas. Frog Pond is considered relevant to the Town of Wilton's MS4 Program due to the fact that Frog Pond Brook drains into the Souhegan River, albeit after a substantial distance. Please see the attached map as a partial explanation.

Incident Summary:

Around early November 2021, Wilton's former Stormwater Manager, Michele Decoteau, became aware that Frog Pond was displaying evidence of an abnormally large amount of sediment that was visible to the naked eye. After further investigation (detailed in the attached Stormwater Construction Inspection Form dated 11/16/2022), Ms. Decoteau determined that all evidence suggested that the sediment was attributable to construction runoff at the "Falcon Ridge Development", located to the North East of Frog Pond, up a steep slope, that leads deeper into the Town of Milford past its property. The evidence included large, very obvious runoff paths and the clear failure of infrastructure implemented to protect against the runoff.

The Town of Wilton subsequently immediately notified Milford Community Development staff and its Town Administrator, the eventual result of which was that additional protection measures were required by the Town of Milford at the site. Measures included plantings, landscaping, and redoing temporary land protection infrastructure.

Subsequent monitoring by Town of Wilton personnel (Including Stormwater Manager Ms. Decoteau, Dam Monitor David Boissonnault, and other Wilton conservation volunteers) detailed continued failures. Wilton personnel stayed in touch with Milford personnel regarding these failures, which were most evident after large rainstorms.

Evidence of failure and continued runoff occurred until around late February – Early March 2022, whereupon the Dam Monitor, David Boissonnault, no longer began to find evidence of abnormal amounts of sediment.

Conclusions so far are that either Spring plant growth or construction control requirements mandated by the Town of Milford finally had their intended effect. In Fall/Winter 2022 and Spring 2023, Wilton plans to review the area significantly to see if the sediment problem reveals itself again.

MS4 Incident 21-01



MAP FOR REFERENCE ONLY NOT A LEGAL DOCUMENT

Nashua Regional Planning Commission makes no claims and no warranties, expressed or implied, concerning the validity or accuracy of the GIS data presented on this map.

Geometry updated 11/16/2018
Data updated 10/25/2018

Print map scale is approximate.
Critical layout or measurement
activities should not be done using
this resource.

Stormwater Construction Inspection Form

	Silt in Frog Pond and Tannery Brook
Address:	Frog Pond D-093 and Falcon Ridge Road 3-4
Owner:	Town of Wilton and Town of Milford
Point of Contact:	
Observers:	Michele Decoteau, David Boissonnault, Jeff Stone, Randy King, Bart Hunter
Date of Inspection:	11/16/2021
Weather:	Sunny, 41°F
Last rainfall:	Showers 11/15/21

On October 29, 2021, David Boissonnault inspected the dam at Frog Pond and discovered silt. This was documented and referred to Paul Branscombe, Wilton Town Administrator.

After approximately 3 inches of rainfall on Friday, November 12, 2021, David Boissonnault re-inspected the dam and found silt flowing over the dam. He alerted the Wilton Town Administration and Michele Decoteau, MS4 Stormwater Manager was asked to provide an inspection.

November 16, 2021, Michele Decoteau reviewed the water flowing over the dam and found some sediment. These photos are looking down on the pond from before water flows over the dam. This is the dam located on lot D-093 in Wilton. Approximate coordinates N 42° 50.721' W071° 43.764.



The water flowing over the dam was far clearer than what was witnessed by observers in October 2021.



After walking around the pond, it was clear where there was silt entering the pond. This is on lot 3-4 Milford. Approximate coordinates 42°50'44.8"N 71°43'43.8"W



We followed the trail of material uphill to a fire access road. This road is also on Lot 3-4 in Milford.



Once on the road, there was evidence of flow of water on the road.





On the fire road was very fine sediment.



At the top of the fire road is a rock wall. Adjacent to the rocks, there is hydroseed slurry.



We looked at the swale at the base of the slope next to the rock wall. We observed sand at the end of the swale. The berm around the swale showed evidence of breakthrough. The road observed next to the guardrail is Peregrine Way.



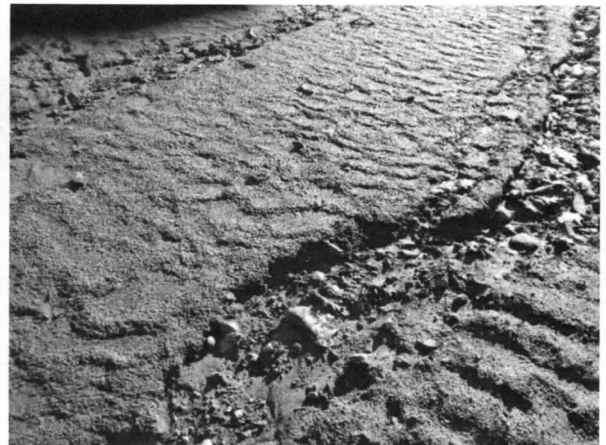


Looking up slope, channels are evident.



Silt fence at the top of the slope.







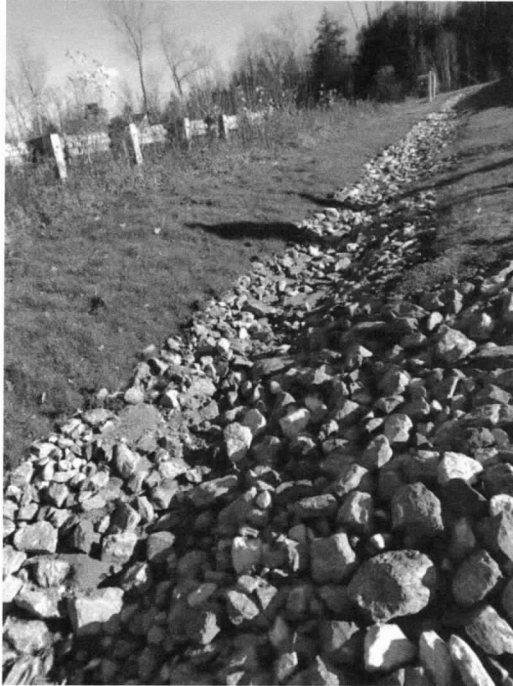
Silt fence and waddle down slope toward the road, Peregrine Way.



The detention basin had a lot of silt. This is adjacent to Peregrine Way.



There was silt in the swale



Channels under the silt fence.



Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 2/21/2022 @ 2:00 Pm
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Ice covered
- Concrete on Dam: Dam cracks remain sealed
- Spillway Bridge: In good condition, no rot and no obstructions.
- Concrete Spillway (depth; throat; outflow): 35.5 inches from the top of the Dam to the water. Or 1.5 inches flowing over the base of the outflow.
- Emergency Spillway: Dry
- Dam Bank: Shows signs of seepage.
- Sloughing or Sinkholes: None
- North Toe: Dry.
- South Seepage & Tire tracks: Damp
- Seepage Weir (meas oz; meas sec; GPM): Not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a

- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Trail is icy, but manageable with caution. All other conditions seem okay.

David Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

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Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 3/15/2022 @ 12:00 Pm
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Ice covered
- Concrete on Dam: Dam cracks remain sealed
- Spillway Bridge: In good condition, no rot and no obstructions.
- Concrete Spillway (depth; throat; outflow): 36 inches from the top of the Dam to the water. Or 1 inch flowing over the base of the outflow.
- Emergency Spillway: Dry
- Dam Bank: Shows signs of seepage.
- Sloughing or Sinkholes: None
- North Toe: Dry.
- South Seepage & Tire tracks: Damp
- Seepage Weir (meas oz; meas sec; GPM): Not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a

- Vortex: No Location: n/a
- Other Discrepancies: None
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Walking bridge railing heading into the Frog Pond, has been damage from a piece of falling tree. Also South West of the dam in Wilton's portion of field a portion of pine tree has blown over into the field.

See attached photos:





David Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

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Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 4/16/2022 @ 14:20 Pm
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Low
- Concrete on Dam: Nothing new to report, Cracks that have been repaired look good.
- Spillway Bridge: Ok, no evidence of rot and clear of debris.
- Concrete Spillway (depth; throat; outflow): 36 inches
- Level Below Top of Dam (37" - depth): 1 inche
- Emergency Spillway: Ok
- Dam Bank: Normal
- Sloughing or Sinkholes: No
- North Toe: Slightly damp
- South Seepage & Tire tracks: Minimal seepage
- Seepage Weir (meas oz; meas sec; GPM): Weir is not in operation.

- Other Seepage: No Est GPM: n/a Location: n/a
- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Railings on walking bridge have been repaired.

David B. Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 6/15/2021 @ 9:51 Am
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Lower then normal
- Concrete on Dam: Dam cracks remain sealed
- Spillway Bridge: In good condition, no rot and no obstructions.
- Concrete Spillway (depth; throat; outflow): 36. 3/4 inches from the top of the Dam to the water. Or 1/4 of an inch flowing over the base of the outflow.
- Emergency Spillway: Dry
- Dam Bank: Slightly damp, hardly noticeable..
- Sloughing or Sinkholes: None
- North Toe: Dry.
- South Seepage & Tire tracks: Damp
- Seepage Weir (meas oz; meas sec; GPM): Not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a

- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Bullfrogs were croaking away and the pink water lilies were in bloom. Vegetation is starting to get high should be cut back with a Weed Wacker, before it gets to far out of hand.

Respectfully Submitted

David Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

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Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 7/12/2022 @ 09:30 am
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Low and water is clear
- Concrete on Dam: Nothing new to report, Cracks remain sealed, some poison Ivy growing on the dam.
- Spillway Bridge: Ok, no evidence of rot and clear of debris.
- Concrete Spillway (depth; throat; outflow): Water level is (4) inches below the output to the spillway.
- Level Below Top of Dam (37" - depth): 41 inches
- Emergency Spillway: Ok
- Dam Bank: Normal
- Sloughing or Sinkholes: No
- North Toe: Dry
- South Seepage & Tire tracks: Seepage and wet at base of the dam.

- Seepage Weir (meas oz; meas sec; GPM): Weir is not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a
- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Town crew had done some weed wacking and mowing by Alan Preston.

David B. Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 8/3/2022 @ 11:10 am
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Low and water is clear, no visible sediment
- Concrete on Dam: Nothing new to report, Cracks remain sealed, some poison Ivy growing on the dam.
- Spillway Bridge: Ok, no evidence of rot and some poison ivy growing on the bridge.
- Concrete Spillway (depth; throat; outflow): Water level is (7) inches below the output to the spillway.
- Level Below Top of Dam (37" - depth): 44 inches
- Emergency Spillway: Ok
- Dam Bank: Normal
- Sloughing or Sinkholes: No
- North Toe: Dry
- South Seepage & Tire tracks: Seepage and wet at base of the dam.

- Seepage Weir (meas oz; meas sec; GPM): Weir is not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a
- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Beautiful Blue Heron standing in the pond.

David B. Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406

Frog Pond Dam and Adjacent Lands

Monitoring Report

Frog Pond/Tannery Brook Dam, #254.021

Stanton Knock K-41 & D-93

- Date & Time: 9/8/2022 @ 10:58 am
- Observer: Dave Boissonnault
- Reason for Visit or Report: Routine Monthly Visit

Dam Area

- Pond condition: Water is very low and water is clear, no visible sediment
- Concrete on Dam: Nothing new to report, Cracks remain sealed, some poison Ivy growing on the dam.
- Spillway Bridge: Ok, no evidence of rot and some poison ivy growing on the bridge.
- Concrete Spillway (depth; throat; outflow): Water level is well below the output to the spillway.
- Level Below Top of Dam (37" - depth): 47 inches
- Emergency Spillway: Ok
- Dam Bank: Normal
- Sloughing or Sinkholes: No
- North Toe: Dry
- South Seepage & Tire tracks: Seepage and wet at base of the dam.

- Seepage Weir (meas oz; meas sec; GPM): Weir is not in operation.
- Other Seepage: No Est GPM: n/a Location: n/a
- Vortex: No Location: n/a
- Other Discrepancies: No
- Estimated Rate of Rise (in/hr): Not discernable or no concern

General Comments

- Comments (users, anything unusual): Beautiful Blue Heron standing on a rock in the pond.

David B. Boissonnault, Frog Pond Dam Monitor

MACC Base, 603-673-1414

Emergency ~ Safety 911

Wilton Police, 603-654-9452

Wilton Fire, 603-654-6758

NH Dam Bureau, 603-271-3406