

ENVIRONMENTAL MONITOR WEEKLY REPORT  
WEEK ENDING **NOVEMBER 17, 2017**

**Distribution**

This report was sent to the following individuals via. e-mail:

Greg Kwon, *Resident Engineer* MADOT, [Greg.Kwon@dot.state.ma.us](mailto:Greg.Kwon@dot.state.ma.us)  
John Viens, *Site Superintendent*, D.W. White, [jviens@dwwhite.com](mailto:jviens@dwwhite.com)  
Delia Kaye, *Natural Resources Director*, Town of Concord, [dkaye@concordma.gov](mailto:dkaye@concordma.gov)

The following individuals were also CC'd via e-mail:

Mark Cain, MADOT, [mark.cain@dot.state.ma.us](mailto:mark.cain@dot.state.ma.us)  
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Rich Kirby, *Environmental Monitor Team member*, LEC, [RKirby@lecenvironmental.com](mailto:RKirby@lecenvironmental.com)

**STATUS OF CONSTRUCTION**

Behind Brookside Square, south of the Nashoba Brook the path has been partially paved. Bridge #C-19-038 is finished and a newly paved walkway is abutting the bridge. The pathway leading the trail to Powder Mill Road is paved and currently under stabilization.

Sediment washout previously identified within the basin north of Commonwealth Avenue was removed and erosion control is placed to prevent future washout. Slope stabilization mats "Curlex" were installed on the basin north of Commonwealth Avenue.

The slope surrounding the new culvert at Station 81+10 which was damaged was repaired and erosion control was placed at the toe of the slope to prevent sediment from entering the wetlands. Curlex were installed on the slope surrounding the new culvert at Station 81+10 to prevent future damage.

Any damage to erosion control was identified and scheduled to be replaced if necessary.

**SITE SCHEDULE**

Over the next two weeks, stabilization throughout the site will be monitored and minor grading throughout the site. Erosion control will be refreshed as needed.

**OBSERVATIONS**

The previous sediment washout identified on the November 10, 2017 report is now repaired and necessary erosion controls are installed to prevent future washout in the identified areas.

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**WEATHER**

The weather station at Hanscom Airfield records and publishes real-time precipitation data (USGS 01100568). According to the weather station, a precipitation event which totaled to be 0.31" occurred.

**ORDER OF CONDITIONS**

**The following conditions were met during the reporting period:**

Condition 35: Stockpiling of materials is kept outside of the 100' buffer zone.

For work involving subgrade, materials were brought to the work zone and immediately installed. No stockpiling was observed.

Condition 36: The smallest equipment necessary to perform the work was used.

Condition 39: Siltation barrier has been installed and consists of, at a minimum, a 12" straw wattle. Where it has been determined that additional measures were needed, some silt fence was added in limited areas.

Erosion control continues to be monitored and repaired as necessary.

Condition 47: No machinery was observed being stored in the buffer zone.

**SWPPP REPORTS**

Copies of the reports are kept in the construction trailer. Copies of the SWPPP Reports are included in this report as an attachment.

**GENERAL SUMMARY**

Sediment washout previously identified was removed and erosion control was placed to prevent future washout. Work to finish paving, grading, and stabilization of the entire site is underway.

## **SWPPP REPORTS**

---

General Information  
(see reverse for instructions)

|                        |                          |                         |           |                        |          |
|------------------------|--------------------------|-------------------------|-----------|------------------------|----------|
| <b>Name of Project</b> | Bruce Freeman Rail Trail | <b>CGP Tracking No.</b> | MAR10008B | <b>Inspection Date</b> | 11/14/17 |
|------------------------|--------------------------|-------------------------|-----------|------------------------|----------|

|  |  |
|--|--|
| <b>Inspector Name, Title &amp; Contact Information</b> | John Viens- Supt. D. W. White Construction, Inc., 867 Middle Rd. Acushnet, MA 02743, jviens@dwwwhite.com, (774) 320-5830 |
|--|--|

|                                      |                           |
|--------------------------------------|---------------------------|
| <b>Present Phase of Construction</b> | SUBGRADE - LOAM PLACEMENT |
|--------------------------------------|---------------------------|

|  |             |
|--|-------------|
| <b>Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)</b> | ENTIRE SITE |
|--|-------------|

**Inspection Frequency** (Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply.)

**Standard Frequency:**  Weekly     Every 14 days and within 24 hours of a 0.25" rain

**Increased Frequency:**  Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)

**Reduced Frequency:**

- Once per month (for stabilized areas)
- Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought)
- Once per month (for frozen conditions where earth-disturbing activities are being conducted)

**Was this inspection triggered by a 0.25" storm event?**  Yes  No

**If yes, how did you determined whether a 0.25" storm event has occurred?**

Rain gauge on site     Weather station representative of site. Specify weather station source:

**Total rainfall amount that triggered the inspection (in inches):**

**Unsafe Conditions for Inspection**

**Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5?**  Yes  No

**If "yes", complete the following:**

- Describe the conditions that prevented you from conducting the inspection in this location:
  
- Location(s) where conditions were found:

**Condition and Effectiveness of Erosion and Sediment (E&S) Controls (GGP Part 2.1)**  
(see reverse for instructions)

| Type/Location of E&S Control<br>(Add an additional sheet if necessary) | Repairs or Other Maintenance Needed?*                               | Corrective Action Required?*  | Date on Which Maintenance or Corrective Action First Identified? | Notes   |
|--|---|---|--|---|
| 1. INFILTRATION BASIN  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | 11/14/17   | MINOR WASH OUT @ SLOPE FROM PARKING LOT TO F.E.S. - CLEANED FOREBAY PAVED AREA. INSTALLED CURLEX ON SLOPES IN CURLEX = EROSION CONTROL MAT RE-SEED AREA CHECKED BASIN AREA FOR ANY SEDIMENT - CLEANED |
| 2.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 3.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 4.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 5.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 6.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 7.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 8.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 9.   | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |
| 10.  | <input type="checkbox"/> Yes <input type="checkbox"/> No            | <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |   |

\* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at [www.epa.gov/npdes/stormwater/swppp](http://www.epa.gov/npdes/stormwater/swppp). See Part 5 of the permit for more information.

**Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)**  
(see reverse for instructions)

| Type/Location of P2 Practices<br>[Add an additional sheet if necessary] | Repairs or Other Maintenance Needed?*                    | Corrective Action Required?*                             | Date on Which Maintenance or Corrective Action First Identified? | Notes |
|---|--|--|--|-------|
| 1. <i>N/A</i>   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 2.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 3.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 4.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 5.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 6.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 7.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 8.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 9.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 10.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |

\* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at [www.epa.gov/npdes/stormwater/swppp](http://www.epa.gov/npdes/stormwater/swppp). See Part 5 of the permit for more information.

| Stabilization of Exposed Soil (CGP Part 2.2)<br><small>(see reverse for instructions)</small> |                      |   |       |
|---|----------------------|---|-------|
| Stabilization Area<br>[Add an additional sheet if necessary]                                  | Stabilization Method | Have You Initiated Stabilization?   | Notes |
| 1. N/A  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 2.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 3.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 4.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 5.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |

| Description of Discharges (CGP Part 4.1-4.6)<br><small>(see reverse for instructions)</small>  |  |
|--|--|
| Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No |  |
| If "yes", provide the following information for each point of discharge:   |  |
| Discharge Location<br>[Add an additional sheet if necessary]   | Observations   |
| 1. INFILTRATION BASIN  | Describe the discharge: <b>SOME SANDY SEDIMENT IN FOREBAY</b><br><br>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: |
| 2.   | Describe the discharge:<br><br>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:                                       |

**Contractor or Subcontractor Certification and Signature**  
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: \_\_\_\_\_

Date: \_\_\_\_\_

11/14/17

Printed Name and Affiliation: \_\_\_\_\_

*John Vitens DW WHITE*

**Certification and Signature by Permittee**  
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee or

"Duly Authorized Representative": \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name and Affiliation: \_\_\_\_\_

**General Information**  
(see reverse for instructions)

|                        |                          |                         |           |                        |          |
|------------------------|--------------------------|-------------------------|-----------|------------------------|----------|
| <b>Name of Project</b> | Bruce Freeman Rail Trail | <b>CGP Tracking No.</b> | MAR10008B | <b>Inspection Date</b> | 11/17/17 |
|------------------------|--------------------------|-------------------------|-----------|------------------------|----------|

|  |  |
|--|--|
| <b>Inspector Name, Title &amp; Contact Information</b> | John Viens- Supt. D. W. White Construction, Inc., 867 Middle Rd. Acushnet, MA 02743, jviens@dwwwhite.com, (774) 320-5830 |
|--|--|

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Present Phase of Construction</b> | SUBGRADE - LOWM INSTALLATION |
|--------------------------------------|------------------------------|

|  |             |
|--|-------------|
| <b>Inspection Location</b> (if multiple inspections are required, specify location where this inspection is being conducted) | ENTIRE SITE |
|--|-------------|

**Inspection Frequency** (Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply.)

**Standard Frequency:**  Weekly  Every 14 days and within 24 hours of a 0.25" rain

**Increased Frequency:**  Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)

**Reduced Frequency:**

- Once per month (for stabilized areas)
- Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought)
- Once per month (for frozen conditions where earth-disturbing activities are being conducted)

**Was this inspection triggered by a 0.25" storm event?**  Yes  No *WANSCOM AIR BASE*

**If yes, how did you determine whether a 0.25" storm event has occurred?**

Rain gauge on site  Weather station representative of site. Specify weather station source:

**Total rainfall amount that triggered the inspection** (in inches): *.31"*

**Unsafe Conditions for Inspection**

**Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.1.5?**  Yes  No

**If "yes", complete the following:**

- Describe the conditions that prevented you from conducting the inspection in this location:
  
- Location(s) where conditions were found:

| Condition and Effectiveness of Erosion and Sediment (E&S) Controls (CGP Part 2.1)<br><small>(See reverse for instructions)</small> |  |  |  |                 |
|--|--|--|--|-----------------|
| Type/Location of E&S Control<br>[Add an additional sheet if necessary]   | Repairs or Other Maintenance Needed?*                    | Corrective Action Required?*                             | Date on Which Maintenance or Corrective Action First Identified? | Notes           |
| 1. All areas appear good   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | N/A  | Site looks good |
| 2.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 3.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 4.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 5.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 6.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 7.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 8.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 9.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |
| 10.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |                 |

\* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at [www.epa.gov/npcdes/stormwater/swppp](http://www.epa.gov/npcdes/stormwater/swppp). See Part 5 of the permit for more information.

| Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)<br>(see reverse for instructions) |  |  |  |       |
|---|--|--|--|-------|
| Type/Location of P2 Practices<br>[Add an additional sheet if necessary]   | Repairs or Other Maintenance Needed?*                    | Corrective Action Required?*                             | Date on Which Maintenance or Corrective Action First Identified? | Notes |
| 1. N/A  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | N/A  | N/A   |
| 2.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 3.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 4.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 5.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 6.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 7.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 8.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 9.  | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |
| 10.   | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No |  |       |

\* **Note:** The permit differentiates between conditions requiring repairs and maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition and requires repairs if controls are not operating as intended. Corrective actions are triggered only for specific, more serious conditions, which include: 1) A required stormwater control was never installed, was installed incorrectly, or not in accordance with the requirements in Part 2 and/or 3; 2) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 3) One of the prohibited discharges in Part 2.3.1 is occurring or has occurred; or 4) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.2. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at [www.epa.gov/npdes/stormwater/swppp](http://www.epa.gov/npdes/stormwater/swppp). See Part 5 of the permit for more information.

| Stabilization of Exposed Soil (CGP Part 2.2)<br><small>(see reverse for instructions)</small> |                      |   |       |
|---|----------------------|---|-------|
| Stabilization Area<br>[Add an additional sheet if necessary]                                  | Stabilization Method | Have You Initiated Stabilization?   | Notes |
| 1. N/A  | N/A                  | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 2.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 3.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 4.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |
| 5.  |                      | <input type="checkbox"/> YES <input type="checkbox"/> NO<br>If yes, provide date: |       |

**Description of Discharges (CGP Part 4.1.6.6)**  
(see reverse for instructions)

Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection?  Yes  No  
If "yes", provide the following information for each point of discharge:

| Discharge Location<br>[Add an additional sheet if necessary] | Observations   |
|--|--|
| 1. N/A   | Describe the discharge:<br><br>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: |
| 2. N/A   | Describe the discharge:<br><br>At points of discharge and the channels and banks of surface waters in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue: |

**Contractor or Subcontractor Certification and Signature**  
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: \_\_\_\_\_

Date: \_\_\_\_\_

11/17/17

Printed Name and Affiliation: \_\_\_\_\_

JOHN STENS DW WHITE

**Certification and Signature by Permittee**  
(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Permittee or

"Duly Authorized Representative": \_\_\_\_\_

Date: \_\_\_\_\_

Printed Name and Affiliation: \_\_\_\_\_

## **WEATHER REPORTS**

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[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:    
 Geographic Area:

Click to hide News Bulletins

- [Please see news on new formats](#)
- [Full News](#) 

# USGS 01100568 SHAWSHEEN RIVER AT HANSCOM FIELD NEAR BEDFORD, MA

## PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Click to hidestation-specific text

**LOCATION**--Lat 42°28'01", long 71°16'22", Middlesex County, Hydrologic Unit 01070002, on left bank, 300 ft downstream from FAA hangar at Hanscom Field and 1.6 mi south of Bedford.

**DRAINAGE AREA**--2.13 mi<sup>2</sup>.

**PERIOD OF RECORD**--Discharge: October 1995 to current year.

Precipitation: October 1996 through September 1999, October 2002 to September 2004.

Water quality: water years 1995-2001.

**GAGE**--Data Collection Platform with satellite telemeter. Datum of gage is 115 ft above National Geodetic Vertical Datum of 1929 (from topographic map).

**REMARKS**-- Discharge values are highly provisional and will change significantly after thorough check and review of data. Gage-height values are accurate. Precipitation gage re-established on site February 2013.

**COOPERATION BY**--U. S. Air Force

**The precipitation data for this station are temporary and will only be displayed for 120 days. Time series of 15-minute or cumulative daily values WILL NOT be available for retrieval following the 120-display period. Although the instrumentation is calibrated at least once/year, the temporary classification means that documented routine inspections and other quality assurance measures are not performed that would make the data acceptable for archival, retrieval, or future use in general scientific or interpretive studies.**

[Boating safety tips](#)

This station managed by the Northborough MA Field Office.

**Available Parameters**

**Period of Record**

- All 3 Available Parameters for this site
- 00010 Temperature, water(Min.,Max.,Mean) 2017-08-02 2017-11-21
- 00045 Precipitation(Sum) 1996-09-30 2017-11-21
- 00060 Discharge(Mean) 1995-10-01 2017-11-21

**Output format**

- Graph
- Graph w/ stats
- Graph w/ meas
- Graph w/ (up to 3) parms
- Table
- Tab-separated

Days (6) [Summary of all available data for this site](#)  
[Instantaneous-data availability statement](#)

GO

-- or --

**Begin date**

2017-11-11

**End date**

2017-11-17

| <b>Daily Sum<br/>Precipitation,<br/>total, inches</b> |                     |
|---|---------------------|
| <b>DATE</b>   | <b>Nov<br/>2017</b> |
| <b>11</b>   | 0.00 <sup>P</sup>   |
| <b>12</b>   | 0.00 <sup>P</sup>   |
| <b>13</b>   | 0.15 <sup>P</sup>   |
| <b>14</b>   | 0.00 <sup>P</sup>   |
| <b>15</b>   | 0.00 <sup>P</sup>   |
| <b>16</b>   | 0.41 <sup>P</sup>   |
| <b>17</b>   | 0.00 <sup>P</sup>   |
| <b>COUNT</b>  | <b>7</b>            |
| <b>MAX</b>  | <b>0.41</b>         |
| <b>MIN</b>  | <b>0.00</b>         |

**Explanation**

|   |                                       |
|---|---------------------------------------|
| P | Provisional data subject to revision. |
|---|---------------------------------------|

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**Title: USGS Surface-Water Daily Data for the Nation**

**URL: <https://waterdata.usgs.gov/nwis/dv?>**



Page Contact Information: [Massachusetts Water Data Support Team](#)

Page Last Modified: 2017-11-22 09:29:50 EST

1.23 1.17 caww01

# PHOTOGRAPHIC DOCUMENTATION

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# PHOTOGRAPH LOG NOVEMBER 17, 2017



NORTH OF COMMONWEALTH AVE. SEDIMENT WASHOUT IS REMOVED AND EROSION CONTROL INSTALLED.



NORTH OF COMMONWEALTH AVE. WITH NEWLY INSTALLED CURLEX.



# PHOTOGRAPH LOG

## NOVEMBER 17, 2017



STATION 81+10 REPAIRED SLOPE WITH CURLEX TO PREVENT FUTURE DAMAGE.



STATION 81+10 WITH ADDITIONAL EROSION CONTROLS ADDED TO PREVENT PORTENTIAL SLOPE DAMAGE AND WASHOUT.



# PHOTOGRAPH LOG

## NOVEMBER 17, 2017



BRIDGE #C-19-038 COMPLETED



POWDER MILL ROAD PATHWAY AND STABILIZATION STATUS