

ENVIRONMENTAL MONITOR WEEKLY REPORT
WEEK ENDING **August 25, 2017**

Distribution

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

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

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

Mark Cain, MADOT, mark.cain@dot.state.ma.us
Ann Roche, MADOT, ann.roche@dot.state.ma.us
Tim Kelley, *Project Manager*, D.W. White, tkelley@dwwhite.com
Rich Kirby, *Environmental Monitor Team member*, LEC, RKirby@lecenvironmental.com

STATUS OF CONSTRUCTION

Earthwork and drainage installation continues behind Brookside Square, south of the Nashoba Brook. Powder Mill road is still closed and work to install the new culvert continues. This week, pavement has been installed in the areas which were previously graded.

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

SITE SCHEDULE

Over the next two weeks, work at Powder Mill road will involve setting the culvert and the restoration of Powder Mill Road will begin. Erosion control will be refreshed as needed. There will be paving at Powder Mill road and the first course of asphalt will be placed on the newly subgraded portions of the trail. Invasive species management will be conducted in select areas throughout the site in accordance with the invasive species management plan. Rich Kirby has been asked to meet with the invasive species subcontractor to discuss methodologies, especially in regulated areas. In the coming weeks, a culvert replacement at station 81+10 will occur.

WEATHER

The weather station at Hanscom Airfield records and publishes real-time precipitation data (USGS 01100568). According to the weather station, no precipitation events which totaled to be greater than 0.25" occurred.

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ORDER OF CONDITIONS

The following conditions were met during the reporting period:

Condition 35: In order to ensure stockpiling of materials is kept outside of the 100' buffer zone during the work at Powder Mill Road, the staging area has been staked out and additional erosion control has been installed.

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

Condition 36: For the paving operation, the smallest equipment necessary to perform the work was used.

Condition 37: The culvert at station 81+10 will be installed prior to September 30th when there is no water in the adjacent wetland and no flow through the pipe.

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.

PLANNED IMPACTED AREAS

In the coming weeks, a 48" culvert replacement at station 81+10 (about 500' north of Williams Road) will occur. In accordance with Condition 37, this work will be conducted during the low-flow period between July 1 and September 30. As shown on the plans, this will require 142 s.f. of temporary wetland impact and 149 s.f. of temporary land under water impact. Throughout the summer, no water was observed in the adjacent wetlands. Dewatering will not be necessary.

SWPPP REPORTS

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

GENERAL SUMMARY

Throughout the remainder of the site, disturbed soils do not appear to be eroding and the in place erosion control is working effectively. Portions of the trail have been paved. The installation of the culvert at station 81+10 is being performed at the appropriate time of year.

SWPPP REPORTS

General Information (see reverse for instructions)			
Name of Project	Bruce Freeman Rail Trail	CGP Tracking No.	MAR10008B
Inspector Name, Title & Contact Information	John Viens- Supt. D. W. White Construction, Inc., 867 Middle Rd. Acushnet, MA 02743, jviens@dwwhite.com, (774) 320-5830		
Present Phase of Construction	ENTIRE SITE		
Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)			
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 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):			
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)				
Type/Location of E&S Control (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. RAIL TRAIL WILLIAMS TO CULVERT	☒ Yes ☐ No	☒ Yes ☐ No	8/15/17	ADDITION STORM WATER REQUIRED @ MISE LOCATIONS FROM WILLIAMS TO PMR CULVERT GRAVEL EROSION EXCEEDS EXISTING WATER
2.	☐ Yes ☐ No	☐ Yes ☐ No		
3.	☐ Yes ☐ No	☐ Yes ☐ No		
4.	☐ Yes ☐ No	☐ Yes ☐ No		
5.	☐ Yes ☐ No	☐ Yes ☐ No		
6.	☐ Yes ☐ No	☐ Yes ☐ No		
7.	☐ Yes ☐ No	☐ Yes ☐ No		
8.	☐ Yes ☐ No	☐ Yes ☐ No		
9.	☐ Yes ☐ No	☐ Yes ☐ No		
10.	☐ Yes ☐ No	☐ Yes ☐ 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. See Part 5 of the permit for more information.

Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)				
Type/Location of P2 Practices [Add an additional sheet if necessary]	Repairs or Other Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
N/A	☐ Yes ☐ No	☐ Yes ☐ No		N/A
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ No		
	☐ Yes ☐ No	☐ Yes ☐ 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. See Part 5 of the permit for more information.

Stabilization of Exposed Soil (CGP Part 2.2) (see reverse for instructions)			Notes
Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	
1. <i>N/A</i>	<i>N/A</i>	☐ YES If yes, provide date:	☐ NO If yes, provide date:
2.		☐ YES If yes, provide date:	☐ NO If yes, provide date:
3.		☐ YES If yes, provide date:	☐ NO If yes, provide date:
4.		☐ YES If yes, provide date:	☐ NO If yes, provide date:
5.		☐ YES If yes, provide date:	☐ NO 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	
Discharge Location [Add an additional sheet if necessary]	Observations
1. <i>N/A</i>	Describe the discharge: 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? ☐ Yes ☐ No 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. <i>N/A</i>	Describe the discharge: 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? ☐ Yes ☐ No 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 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: [Signature]

Date: 8/14/17

Printed Name and Affiliation: DAVID K. OLIVAS DW WHITE CONTR.

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 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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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Surface Water ▼

Geographic Area:

United States ▼

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USGS 01100568 SHAWSHEEN RIVER AT HANSCOM FIELD NEAR BEDFORD, MA

PROVISIONAL DATA SUBJECT TO REVISION

Time-series: Daily data ▼

GO

Click to hide station-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 mi².

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)
- ☒ 00045 Precipitation(Sum)
- ☐ 00060 Discharge(Mean)

2017-08-02 2017-08-29

1996-09-30 2017-08-29

1995-10-01 2017-08-29

Output format

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

Days (7)

[Summary of all available data for this site](#)

GO

[Instantaneous-data availability statement](#)

-- or --

Begin date

2017-08-18

End date

2017-08-25

Daily Sum Precipitation, total, inches

DATE	Aug 2017
18	0.02 ^P
19	0.00 ^P
20	0.00 ^P
21	0.00 ^P
22	0.00 ^P
23	0.21 ^P
24	0.00 ^P
25	0.00 ^P
COUNT	8
MAX	0.21
MIN	0.00

Explanation

P Provisional data subject to revision.

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PHOTOGRAPHIC DOCUMENTATION



BRUCE FREEMAN RAIL TRAIL
CONCORD, MA

PHOTOGRAPH LOG

AUGUST 28, 2017



PORTIONS OF THE TRAIL HAVE BEEN PAVED



NORTHERN END OF THE PROJECT



PHOTOGRAPH LOG

AUGUST 28, 2017



PAVEMENT LAYOUT ON SUBGRADE



PAVING EQUIPMENT