

ENVIRONMENTAL MONITOR WEEKLY REPORT
WEEK ENDING **August 18, 2017**

Distribution

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

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

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STATUS OF CONSTRUCTION

Earthwork and drainage installation has 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, work to install and grade the gravel base of the new trail continues.

In narrow areas, the subgrade work has resulted in material being placed in contact with the erosion control. In some cases material was placed greater than half the height of the wattles, in other cases the wattles were damaged. As a corrective measure, the contractor had added additional straw wattles in some areas. At the time of inspection, a crew was observed installing new erosion control along the entire site, where 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.

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 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.

The contractor is in the process of installing additional straw wattles as needed as a result of the subgrading operation. Some of the straw wattles were observed with stakes through the ends of the wattles. The contractor was informed that wattles should not be staked through.

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

PLANNED IMPACTED AREAS

There is no resource areas planned to be impacted in the next two weeks.

SWPPP REPORTS

Copies of the reports are kept in the construction trailer. At the time of inspection, the trailer was not accessible. Copies of the reports will be included when they become available.

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. Erosion control continues to be maintained as work extends through new areas. In the coming weeks, paving of the trail will begin which will stabilize the soil.

WEATHER REPORTS



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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 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 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) 2017-08-02 2017-08-20
- 00045 Precipitation(Sum) 1996-09-30 2017-08-20
- 00060 Discharge(Mean) 1995-10-01 2017-08-20

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](#)
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GO

-- or --

Begin date

2017-08-11

End date

2017-08-18

Daily Sum Precipitation, total, inches	
DATE	Aug 2017
11	0.00 ^P
12	0.11 ^P
13	0.00 ^P
14	0.00 ^P
15	0.00 ^P
16	0.00 ^P
17	0.00 ^P
18	0.02 ^P
COUNT	8
MAX	0.11
MIN	0.00

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](#)

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SCHEDULE

PHOTOGRAPHIC DOCUMENTATION



PHOTOGRAPH LOG AUGUST 18, 2017



WORK CREW MAINTAINING EROSION CONTROL



REFRESHED EROSION CONTROL



PHOTOGRAPH LOG AUGUST 18, 2017



EROSION CONTROL AHEAD OF WORK CREW IN NEED OF MAINTENANCE



PORTION OF TRAIL WITH SUBGRADE INSTALLED



PHOTOGRAPH LOG

AUGUST 18, 2017



CONTRACTOR HAS IDENTIFIED AREAS WHICH REQUIRE MAINTENANCE