# ITEM 755.76 WETLAND MONITORING REPORTS LUMP SUM

*REV. 2022.01.01 (REV. DATE TO BE REMOVED BY MASSDOT CONTRACTS)*

Designer Instructions:

* **Text should be customized for the project where highlighted. Other revisions should only be made in coordination with Environmental Services or the Landscape Design Section.**
* **Specifications needs to be modified as necessary to include oversight for Wetland Restoration if required by permits. Coordinate with Wetland Restoration item.**
* **Specification must be modified for tidal wetland work.**
* **PURPLE text is only required for Variance Projects. Remove text for non-Variance projects unless applicable to the Mitigation. Amend special provision language as necessary to meet Variance requirements**.

Work under this item shall be for the submittal of Wetland Monitoring Reports following the completion of wetland construction and shall include all inspections, photos, and other work required to complete those reports as specified herein.

“Wetland Mitigation” shall be used herein for applicable wetland work, whether Wetland Replication (creation of a new wetland) and/or Wetland Restoration (restoration after temporary impacts).

The Contractor shall retain the services of a Wetland Scientist, Wetland Ecologist, Restoration Ecologist, or other professional with similar qualifications, hereafter referred to as the “Wetland Specialist,” to complete the Wetland Monitoring reports. Wetland Specialist shall meet requirements specified under Item 755.75 Wetland Specialist.

All on-site Wetland Specialist services required to complete the construction and revegetation of the wetland replication, including preparation and submission of monitoring reports during construction, shall be per Item 755.75 Wetland Specialist.

## SCOPE OF WORK

Post-Construction Wetland Monitoring Reports

Final Acceptance of the wetland construction work as specified under item 755.35 and/or 755.45 shall initiate the beginning of the Monitoring Period.

Inspections and reports shall be performed to ensure compliance with mitigation requirements defined under the relevant Wetland Mitigation items and with all applicable environmental permits. Monitoring reports shall cover the following:

* Identification of all plant species present
* Percent cover for each plant species and overall percent surface area cover by indigenous wetland plant species for replication area and upland
* Description of the viability, health, and vigor of installed plants as well as volunteer plant species within the replication areas
* Description of remedial measures taken to ensure criteria are met
* Depth to apparent water table and/or depth of surface inundation, both as measured from the soil surface and data loggers, as appropriate.
* A conclusion regarding the success of the wetland mitigation area relative to the performance standards at 310 CMR 10.55(4)(b) (unless varied), the design plans, and performance criteria established by MADEP in the variance conditions (when applicable), and the reference wetland.
* Recommendation for a corrective plan of action if needed.

Variance projects shall also cover the following:

* Data shall be collected for at least five (5) distinct observation plots distributed to ensure all plant communities are represented and multiple plots are located in the largest plant communities
* Each sampling event shall include groundwater data obtained at groundwater monitoring wells that have been installed in the wetland mitigation area
* Color photo documentation with photos for each sampling event at each observation well and observation plot

Reports shall be submitted to the Engineer as a digital copy in Portable Document Format (PDF) unless otherwise requested. Hard copies shall be provided as requested by the Engineer. All reports shall be marked with the applicable permit numbers and identifying information as required in the permits. Reports shall include photo documentation of the wetland/s being monitored and shall include a minimum of 3 views from different orientations. Views shall be labeled.

Spring Reports, when required, shall be submitted to the Engineer by July 1 for dispersal to the appropriate permitting agencies.

End of Year Reports (which may serve as the Fall Report) shall be based on inspections that occur prior to October 15th. Reports shall be submitted to the Engineer no later than November 1 of each year.

Monitoring Reports shall be as follows for ***XX*** years: [Select/amend as required for permits. If monitoring is required beyond 2 years after expected close of construction contract, please coordinate with MassDOT Environmental].

* + *MassDEP: # Reports - (note if spring and/or 1 end of year).*
  + *ACOE: # Reports (note if spring and/or 1 end of year).*
  + *Conservation Commission: # Reports (note if spring and/or 1 end of year).*
  + *Other: # Reports (note if spring and/or 1 end of year).*

## BASIS OF PAYMENT AND METHOD OF MEASUREMENT

Item 755.76 Wetland Monitoring Reports and associated inspections shall be at the Contract unit price per Lump Sum and shall include all labor, materials, equipment, and all incidental costs required to complete the work. Lump Sum will be paid in equal installments of the Lump Sum divided by the number of reports submitted. Payment shall be upon submittal and acceptance of each report, based on the following schedule: [Complete/modify as applicable. # reports is for report submitted, not # of inspections.]

* Year 1 = xx Reports
* Year 2 = xx Reports