

Memorandum

To Brian Dudley, MassDEP SERO

CC George Meservey, Town of Orleans, Director of Planning & Community Development;
Steve Hallem, MassDEP Boston
Kermit Studley, MassDEP SERO
Thomas Cambareri: Cape Cod Commission
Betsy Shreve-Gibb, AICP, AECOM Project Director
Mark Owen, PG, AECOM

Subject **Town of Orleans, MA**
Water Quality and Wastewater Planning
Proposed Wick Loading Test
Route 6 Cloverleaf Proposed Discharge Area

Project Number 60476644

From Thomas Parece, P.E., AECOM Project Manager

Date April 18, 2018

On behalf of the Town of Orleans, AECOM is submitting an updated proposed Hydrogeologic Evaluation Scope of work for the proposed groundwater discharge at the Route 6 (Exit 12) Cloverleaf site (Figure 1). The updated scope proposes to install a test wick and conduct a 30-day wick loading test in addition to the Hydrogeologic Evaluation completed in 2017 and summarized in the final report submitted October, 2017. AECOM proposes to update the final report to include details on the wick installation, wick loading test, groundwater model results, conclusions, and recommendation.

1. Background

The proposed hydrogeologic site evaluation is being conducted as part of the evaluation of proposed treatment and disposal of sanitary sewage generated in the Downtown Area of Orleans, MA. Proposed treatment would take place at a new facility on Overland Way in Orleans, MA.

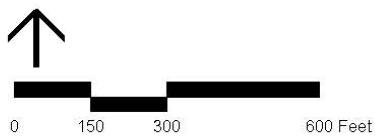
On December 15, 2015, a proposed scope of work to conduct a Hydrogeologic Site Evaluation was submitted to MassDEP for review and comment. The notification of the proposed scope of work was published in Volume 85, Issue 4 on December 23, 2015 of the Environmental Monitor and was open to public comment. The Proposed Hydrogeologic Site Evaluation was approved by MassDEP on May 16, 2017.

The Hydrogeologic Evaluation was completed in the fall of 2017. The final report was submitted to MassDEP in October 2017. On February 2, 2018, the MassDEP approved the Hydrogeologic Evaluation report pursuant to 314 CMR. 5.09 (1) (f) and authorizes the Town of Orleans to apply for an Individual Groundwater Discharge Permit (BRPWP 79). The conditional approval was for a groundwater discharge not to exceed 145,000 gallons per day (gpd).

Since the completion of the hydrogeologic evaluation and submittal of the of the final report, the Town has received a Site Access Permit granting permission to install four additional monitoring wells, a test wick, and perform a 30-day loading test at the site. A copy of the access permit is provided in Appendix A.



Figure 1
Locus Map
Water Quality and Wastewater Planning
Route 6 (Interchange 12) Cloverleaf
Downtown Area - Groundwater Discharge



At present, the Town is also seeking an agreement with MassDOT to allow a groundwater discharge at the site. The form of the agreement and timing are to be determined.

The project history and background, previous proposed scope, and results of the Hydrogeologic Evaluation are contained in the Hydrogeologic Evaluation report submitted October 2017.

In the following section, AECOM has updated the Proposed Hydrogeologic Evaluation to reflect the installation of a test wick, perform a 30-day loading test, evaluate the loading test results, and update the Hydrogeologic Evaluation report. All proposed tasks, as well as those included in December 23, 2015 Proposed Hydrogeologic Evaluation are included below. Tasks that have been completed have been identified. The results of those tasks are included in the report submitted in October 2017.

2. Updated Hydrogeologic Evaluation Scope

- A. Test Pit Investigation – Completed 2017
- B. Soils Testing and Data Analysis - Completed 2017
- C. Baseline Water Quality Analysis - Completed 2017
- D. Estimate of High Water Table - Completed 2017
- E. Test Wick Design and Installation - Proposed

As part of the Hydrogeologic Evaluation, a test wick will be installed and load tested to assist in evaluating the capacity of a full-sized wick. The approximate location of the test wick is shown on Figure 2. Also shown on Figure 2 are the existing and proposed monitoring well locations for observing groundwater levels during the loading test. The monitoring wells are to be located approximately 5, 15, 30, 60, 120, 200 and 220 feet from the proposed test wick.

The test wick will be installed using a drilling rig with 14-inch outside diameter, 8.78-inch inside diameter augers. The borehole will be drilled to approximately 2 feet above the water table or 83 feet below land surface (bls). Once drilled, an internal observation well consisting of 2-inch diameter PVC well screen and casing will be installed and centralized in the borehole to the total depth of the borehole. The internal observation well will be installed with approximately 80 feet of continuous slot (20-slot) PVC well screen and 5 feet of PVC casing at the top. As the augers are removed, a washed ¾-inch stone will be installed between the formation and well screen. The test wick will be completed with protective casing and secured with a concrete pad and locking cover.

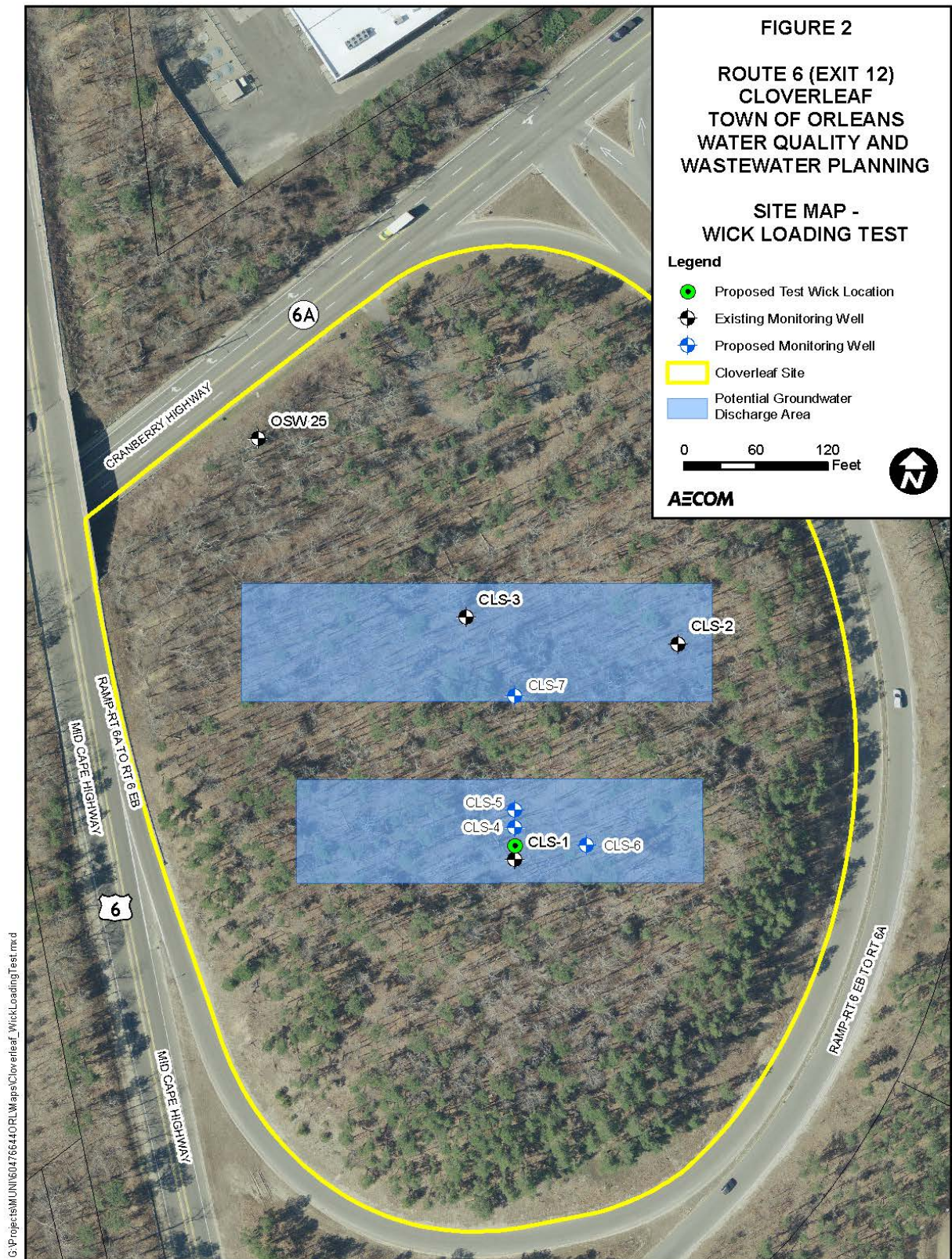
1) 30-Day Loading Test - Proposed

Once installed, the 30-day loading test will be performed by discharging potable over the gravel at the top of the test wick. The source of potable water will be from the Orleans Water Department.

The loading test will consist of successively higher loading rates, beginning at approximately 20 to 25 gallons per minute (gpm). Each step of the loading test will be increased incrementally based on the previous loading rate and water levels observed in the internal monitoring well. We anticipate that each step of the test will last several days, although the goal is to allow water levels within the test wick and monitoring well CLS-1 (located approximately 5 feet from the wick) to level off before beginning the subsequent step.

Background water level readings will be collected daily for a minimum of 5 days prior to the start of the prolonged loading test. Background water level readings will be collected from the test wick and monitoring wells CLS-1, CLS-5, CLS-6, and LH-1,

Data loggers will be installed in the test wick and monitoring wells CLS-1, CLS-4, CLS-5, CLS-6, and CLS-7 to monitor water levels throughout the loading test. Monitoring wells CLS-2, CLS-3, LH-1, LH-5, MW-9, and MW-14, will also be monitored periodically throughout the test.



Manual water level readings will be collected at all of the well locations periodically throughout the loading test. Precipitation data will be collected and recorded daily at the Orleans Water Department located approximately 5,200 feet southeast of the 32 Lots Hollow Road. Water level data from USGS monitoring well BMW-22 will be used to provide ambient water levels.

At the conclusion of the test, water level data will be summarized and analyzed to evaluate groundwater mounding and the loading efficiency of the soils underlying the site. The water level data will also be used to design and estimate the capacity of a full sized wick as well as estimate the capacity of the site for a groundwater discharge.

2) Estimated Groundwater Mounding - Proposed

Data obtained from the site investigations will be analyzed and used to update a numerical groundwater flow model to simulate groundwater flow in the vicinity of the proposed discharge. The groundwater flow model will use MODFLOW, developed in 1988 by McDonald and Harbaugh of the USGS, to compute groundwater flow in an aquifer under different stressors. Once calibrated, groundwater mounding resulting from the discharge of wastewater will be simulated. The model will also be used to design the proposed groundwater discharge method, and assess potential impacts to sensitive receptors.

3) Final Report - Proposed

The Hydrogeological Evaluation Report previously submitted will be updated to include the test wick installation and loading test methods. The updated report will also summarize and updated the results of the field investigations, data analysis, groundwater mounding analysis, numerical model documentation, and potential impacts to sensitive receptors. Included will be pertinent USGS geologic and hydrogeologic data, estimated depth to bedrock, the location of existing and potential water supply wells, water supply protection areas, and pertinent subsurface investigations conducted at nearby sites.

The updated report will also identify watershed recharge areas and boundaries, assess potential impacts of nitrogen to receiving waterbodies, and estimate the additional nutrient load to the receiving watershed(s). The groundwater model results will include the lateral extent of the groundwater discharge, separation between the ground surface and the mounded water table under high water table conditions, groundwater travel times, and potential impacts on watershed(s), infrastructure, and potential sensitive receptors.

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Appendix A

MassDOT Access Permit No. 5-2017-0056 (Amendment)

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Charles D. Baker, Governor
Karyn E. Polito, Lieutenant Governor
Stephanie Pollack, Secretary & CEO
Jonathan L. Gulliver, Highway Administrator



**Permit #: 5-2017-0056
AMENDMENT**

PERMIT - ORLEANS

Subject to all terms, conditions, and restrictions printed, attached or written below, and on the reverse side hereof, permission is hereby granted to **AECOM**, Mark R. Owen, 9 Jonathan Bourne Drive, Pocasset, MA 02559 to enter upon the State Highway in the Town of **ORLEANS** on Auto Route 6, locally known as Mid-Cape Highway and on Auto Route 6A, locally known as Cranberry Highway.

AMENDMENT TO PERMIT 5-2017-0056

This permit is being amended to install three to four additional monitoring wells, one test pit, perform a 30-day wick loading test, and perform periodic water level data collection from the proposed test pit and monitoring wells, within the State Highway Layout (S.H.L.O.). The monitoring wells and the test pit will be installed inside the southeastern cloverleaf of Exit 12 on Route 6, and adjacent to Route 6A (Cranberry Highway). The monitoring wells will have a 2" diameter with an approximate depth of 100 feet and the test pit will have a 14" diameter with an approximate depth of 85 feet.

The Grantee(s) must adhere to all the terms and conditions stated herein and as outlined in the original Permit #5-2017-0056.

All work is to be done as described herein and as shown on the attached aerial pictures.

Upon completion of the work within the shoulder area, all disturbed areas must be filled and brought up to grade, compacted and loamed and seeded. Unless allowed herein, monitoring wells are not permitted within the hardened surface of the roadway. However, if permission is granted to allow the wells to be placed within the roadway or sidewalk areas must be backfilled, compacted and patched with hot mix asphalt/cement concrete as per existing conditions and in accordance with MassDOT, Highway Division, standard specifications.

The Grantee(s) will be responsible for the work performed under this Permit against cracks, settling or heaves until work is performed on said areas by MassDOT, Highway Division.

The Grantee(s) will be responsible to replace/reset any covers that may be damaged.

THE BACKFILLING METHOD FOR WORK WITHIN THE HARDENED SURFACE FOR SOIL BORINGS, TEST PITS, OR SMALL TRENCH OPENINGS WILL BE AS FOLLOWS:

"FOLLOWING CONDITIONS APPLY TO PERMITS"

Conditions Relating Particularly to Permits for the Laying of Pipes, Conduits, etc.

After any pipes, conduits, drains or other underground structures are laid, or any excavation is made in the roadway, the trenches or openings shall be properly backfilled with suitable material, the back-filling shall be thoroughly tamped, and the surface of the road over said structures shall be left even with the adjoining ground. If the work is done in cold weather no frozen material shall be used for back-filling.

Wherever the hardened surface of the roadway, gutters, or any part of the surface of the highway is disturbed it shall be replaced in as good condition as before it was disturbed, and if new materials are required they shall correspond with those already in place on the road.

Where service pipes are to cross the highway the connections shall be made without disturbing the hardened surface of the roadway, by driving the pipes under the roadway, or the service pipes shall be carried under and across the road in a larger pipe, unless otherwise ordered by the Director.

The Grantee shall maintain the surface of the roadway over said structures as long as MassDOT may deem necessary, until all signs of the trenches shall have been eliminated.

Conditions Relating Particularly to Permits for the Erection of Poles, Wires, and Overhead Structures, and the Cutting and Trimming of Trees

In the erection of pole lines, unless otherwise herein provided, no trees located within the limits of the State Highway shall be cut or trimmed. No guy wires shall be attached to trees without a special permit from MassDOT, and in no event shall they be so attached as to girdle the trees or in any way interfere with their growth. The wires shall be so protected at all time and places that they shall not interfere with or injure the trees either inside or outside the location of the highway.

Where the cutting or trimming of trees is authorized by this permit, only such cutting and trimming shall be done as may be designated by the Director.

In the construction or reconstruction of pole lines no guy wires shall be erected nearer to the surface of the ground than six feet; provided, however, that the owners of such lines may maintain such guy wires at a lower elevation than six feet from the ground until such time as MassDOT shall notify them to remove said wires or to the elevation first stated.

In order to protect the trees through which any wires may pass, said wires shall be insulated and such other tree guards used as may be directed by the Director.

Where high tension wires are erected under this permit, they shall be so located that, under conditions of maximum severity as regards a coating of ice or snow, there shall be a space of at least eight feet between such high tension wires and other wires.

The Grantee shall, within sixty days from the date of completion of the work, file in the office of MassDOT a plan showing the location of each pole erected in accordance with the permit, said plan to be of such size and in such form as MassDOT may direct.

General and Additional Conditions

Whenever the word "MassDOT" is used herein it shall mean the Massachusetts Department of Transportation of the Commonwealth of Massachusetts.

Whenever the word "Director" is used herein it shall mean the District Highway Director or other authorized representative of MassDOT.

Whenever the word "Grantee" is used herein it shall mean the person or persons, corporation or municipality to whom this permit is granted, or their legal representatives.

During the progress of the work all structures under ground and above ground shall be properly protected from damage or injury; such barriers shall be erected and maintained as may be necessary for the protection of the traveling public; the same shall be properly lighted at night; and the Grantee shall be responsible for the damages to persons or property due to or resulting from any work done under this permit.

Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the State highways in such a manner as to interfere unnecessarily with the travel over said road.

If any grading of sidewalk work done under this permit interferes with the drainage of the State highway in any way, such catch basins and outlets shall be constructed as may be necessary, in the opinion of the Director, to take proper care of such drainage.

Wherever the hardened surface of the roadway is disturbed and the Director may consider it necessary or advisable to do so, said surface will be restored by the employees of MassDOT, at such time as MassDOT may direct, and the expense thereof shall be borne by the Grantee, who shall purchase and deliver on the road the materials necessary for said work if and when directed by the Director. All payments to the supplier and to laborers, inspectors, etc., employed by MassDOT for or on account of the work herein contemplated shall be made by said Grantee forthwith on receipt of written orders, pay rolls, or vouchers approved by MassDOT.

IF THE GRANTEE DOES ANY WORK CONTRARY TO THE ORDERS OF THE DIRECTOR, AND, AFTER DUE NOTICE, FAILS TO CORRECT SUCH WORK OR TO REMOVE STRUCTURES OR MATERIALS ORDERED TO BE REMOVED, OR FAILS TO COMPLETE WITHIN THE SPECIFIED TIME THE WORK AUTHORIZED BY THIS PERMIT, MASSDOT MAY, WITH OR WITHOUT NOTICE, CORRECT OR COMPLETE SUCH WORK IN WHOLE OR IN PART, OR REMOVE SUCH STRUCTURES OR MATERIALS, AND THE GRANTEE SHALL REIMBURSE MASSDOT FOR ANY EXPENSE INCURRED IN CORRECTING AND/OR COMPLETING THE WORK OR REMOVING THE STRUCTURES OR MATERIALS.

ALL OF THE WORK HEREIN CONTEMPLATED SHALL BE DONE UNDER THE SUPERVISION AND TO THE SATISFACTION OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION, AND THE ENTIRE EXPENSE THEREOF SHALL BE BORNE BY THE GRANTEE.

On the completion of the work herein contemplated all rubbish and debris shall be removed and the roadway and roadsides shall be left neat and presentable and satisfactory to the Director.

MassDOT hereby reserves the right to order the change of location or the removal of any structure or structures authorized by this permit at any time, said change or removal to be made by and at the expense of the Grantee or its / their successors or assigns.

This permit may be modified or revoked at any time by MassDOT without rendering said MassDOT or the Commonwealth of Massachusetts liable in any way.

The Grantee shall pay the salary, subsistence and travel expenses of any inspector appointed by MassDOT to supervise the work herein contemplated.

All of the above conditions shall be applicable to the work herein authorized, unless the same are inconsistent with the conditions on the face of the permit, in which case the conditions written or printed on the face of the permit shall apply.

The acceptance of this permit or the doing of any work thereunder shall constitute an agreement by the Grantee to comply with all of the conditions and restrictions printed or written herein.

Soil borings, test pits or small trench openings (less than 4 feet deep) must be backfilled with Gravel or Dense Graded Crushed Stone properly compacted in accordance with AASHTO Standard Specifications of Density of Soil and Soil-Aggregate In-Place by Nuclear Methods (Shallow Depth) (Designation T238-86 Method B - Direct Transmission shall be used to determine in-place density) and Moisture Content of Soil and Soil-Aggregate In-Place by Nuclear Methods (Shallow Depth) (Designation T239-91). If the depth is larger than 4 feet, then Controlled Density Fill (CDF - M4.08.0, Type 2E Flowable, and Excavatable) should be used. Additionally, the repair must match the existing pavement thickness or a minimum of seven (7) inches of Hot Mix Asphalt consisting of 3" of Hot Mix Asphalt Base Course, 2" of Hot Mix Asphalt Binder Course and 2" of Hot Mix Asphalt Modified Top Course.

The infra-red method must be performed in conjunction with the permanent patch to create a smooth driving surface consistent with the existing roadway. The District Office must be notified two business days prior to starting this work, so that an inspector may be assigned. This mix must be machine laid.

All traffic safety lines if disturbed shall be replaced in kind.

The Grantee(s) shall be responsible for the maintenance and repair of this portion of the roadway and shall perform routine inspections for deficiencies such as settling, heaving, cracks etc. This responsibility shall remain in effect until the resurfacing of this particular portion of highway is performed by MassDOT, Highway Division.

All disturbed areas within the hardened surface of the roadway must be backfilled, compacted and patched with hot mix asphalt/cement concrete as per existing conditions and in accordance with MassDOT, Highway Division, standard specifications. Soil borings in the soft shoulder must be filled and brought up to grade compacted and loamed and seeded.

CLOSING CONDITIONS

ALL OF SAID WORK SHALL COMPLY WITH THE TERMS AND CONDITIONS HEREIN, AND MUST BE DONE AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.

All work done under this contract shall be in conformance with the Massachusetts Highway Department "Standard Specifications for Highways and Bridges" dated 1988, as amended and the "Supplemental Specifications to the Standard Specifications for Highways and Bridges" dated July 1, 2015. All construction shall conform to the October 2017 edition of the Massachusetts Department of Transportation, Highway Division "Construction Standard Details (English Edition)"; the latest Manual on Uniform Traffic Control Devices with Massachusetts Amendments; the latest edition to the following: the 1996 Construction and Traffic Standard Details (as related to Traffic Standard details only); the 1990 Standard Drawings for Traffic Signs and Supports; the 1968 Standard Drawings for Traffic Signals and Highway Lighting; the latest edition of American Standard for Nursery Stock; the Plans and these Special Provisions.

The Grantee(s) shall indemnify and save harmless the Commonwealth and MassDOT, Highway Division, against all suits, claims or liability of every name and nature arising at the time out of or in consequence of the acts of the Grantee(s) in the performance of the work covered by this Permit and/or failure to comply with the terms and conditions of this Permit whether by themselves or their employees or subcontractors.

It is noted that the Grantee(s) will be responsible for future corrective actions resulting from defective work under the subject permit. Any damage to roadway and/or shoulder as a result of the permitted work is the Grantee's responsibility and shall be repaired at his/her expense.

THE GRANTEE(S) SHALL CONTACT THE PERMITS SECTION AT (508) 884-4306 WHEN THE WORK REQUIRED UNDER THIS PERMIT HAS BEEN COMPLETED IN ORDER FOR A FINAL INSPECTION TO BE PERFORMED BY MASSDOT, HIGHWAY DIVISION. IF THE COMPLETION OF WORK FORM IS NOT RETURNED, THE LIABILITY ASSUMED UNDER THIS PERMIT WILL CONTINUE.

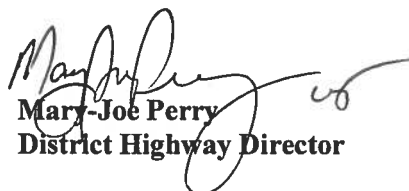
A COPY OF THIS PERMIT MUST BE ON THE JOB SITE AT ALL TIMES FOR INSPECTION. FAILURE TO HAVE THIS PERMIT AVAILABLE AT THE SITE WILL RESULT IN SUSPENSION OF THE RIGHTS GRANTED BY THE PERMIT.

No work shall be done under this Permit until the Grantee has communicated with and received instructions from MassDOT, Highway Division's District Highway Director at 1000 County Street, Taunton, MA 02780.

The Permit shall be void unless the work herein contemplated shall have been completed before FEBRUARY 22, 2019.

Dated at TAUNTON this 6TH day of MARCH, 2018.

MassDOT-Highway Division,
By



Mary-Joe Perry
District Highway Director

FSJ: fsj ^{dmw}
cc: Foreman

From: Parece, Tom [<mailto:Tom.Parece@aecom.com>]
Sent: Wednesday, February 14, 2018 11:35 AM
To: Berthiaume, Nicole M. (DOT)
Cc: jkelly@town.orleans.ma.us; George Meservey (gmeservey@town.orleans.ma.us); Shreve, Betsy; Owen, Mark
Subject: Orleans, MA - Route 6 Exit 12 - Site Access Permit # 5-2017-0056 Extension

Nicole.

Thank you for your assistance on Site Access Permit # 5-2017-0056.

As discussed, the Town of Orleans wishes to continue with the proposed Hydrogeologic Evaluation within the southeast cloverleaf of Exit 12 on Route 6 in Orleans, Massachusetts (Figure 1). The proposed scope included in Permit # 5-2017-0056 has been substantially completed however additional investigations are required to meet MassDEP criteria for completing a Hydrogeologic Evaluation.

On behalf of the Town, **AECOM requests an extension** to Site Access Permit # 5-2017-0056 to allow for the completion of the following tasks.

1. The installation of three to four 2-inch diameter monitoring wells to a depth of approximately 100 feet (Figure 2).
2. The installation of one test wick (approximately 14-inches in diameter) to a depth of approximately 85 feet.
3. The performance of a 30-day wick loading test.
4. The collection of periodic water level data from the test wick and monitoring wells.

At this time, we do not anticipate the removal of any trees to perform the described work. AECOM will make every attempt to install the test wick and monitoring wells in areas where the removal of trees will not be necessary. If any trees in excess of 6-inches need to be removed, AECOM will tag the tree(s) and contact MassDOT prior to proceeding with the work. We also do not anticipate any work to occur within 30-feet of any road right-of-ways adjacent to the cloverleaf shown on Figure 2.

Approximately two weeks prior to mobilizing to the site, AECOM will review the US Fish and Wildlife Service's (USFWS) mapping for the northern long-eared bat (NLEB). If the proposed work is located within 0.25 miles of a known NLEB hibernacula or with 150 feet from a known NLEB maternity roost tree, MassDOT will be notified.

Dig Safe will be notified one to two weeks prior to any subsurface excavation (test wick and monitoring well installation). A copy of the Dig Safe Ticket will be forwarded to MassDOT prior to beginning work.

I have also attached a figure showing what the monitoring wells and test wicks will look like at the surface once installed.

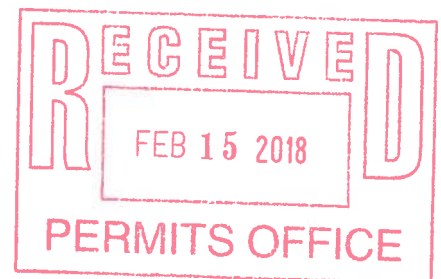
AECOM anticipates that the proposed work will be completed prior to June 1, 2018.

If you have any questions, please contact this office.

Thanks,
Tom

Thomas E. Parece, P.E.
Associate Vice President - Water
D 1.978.905.2354 C 1.978.764.9027
tom.parece@aecom.com

AECOM
9 Jonathan Bourne Drive, Pocasset, MA 02559
T 1.508.833.6950 F 1.508.833.6951



**Notice to MassDOT, Highway Division
of
Completion of Work**

Grantee Name: _____

City/Town Project Location: _____

Permit No.: _____ **Date Issued:** _____

Subject to all of the terms, conditions and restrictions as described on the attached Permit, permission is hereby granted to proceed with the work described within the Permit which has been issued to perform work within the State Highway Layout by the MassDOT, Highway Division, District Five, 1000 County Street, Taunton, MA 02780, (508) 824-6633.

Please notify the Permits Section at (508) 884-4306, at least two (2) business days prior to starting the proposed work.

Your attention is called to the time frame allowed for completion of said work which is found on the last page of the Permit. If the proposed work can not be completed prior to the expiration date or alterations to any of the Permit conditions become necessary, you must contact the Permits Engineer in writing to extend/amend the Permit as soon as possible for review and approval of such request.

Upon completion of the work described within the Permit, you must complete the bottom portion (do not detach) of this letter and forwarded it to MassDOT, Highway Division. A final inspection will then be scheduled to be performed. If the work performed was found in compliance with the terms and conditions as outlined in the Permit, the Permit will then be signed off as complete and to the satisfaction of the Engineer.

IF THIS NOTICE IS NOT RETURNED, THE GRANTEE'S LIABILITY ASSUMED UNDER THIS PERMIT WILL CONTINUE UNTIL THE PERMIT IS SIGNED OFF AS COMPLETE

By Authority of the Massachusetts District Five Highway Director, Ms. Mary-Joe Perry

To MassDOT, Highway Division
Attention Permits Office:

I, the Grantee of the above mentioned Permit, hereby notify you that the work outlined and authorized under the terms and conditions of said Permit, has been completed in accordance with all requirements of the MassDOT, Highway Division and request a final inspection to be performed.

Work Completed on: _____ Date: _____

Permit Grantee's name: _____ Print: _____

Signed: _____ Date: _____
Grantee(s) signature

A notice of "sign-off" will only be sent at the request of the Grantee