September 9, 2019

United States Environmental Protection Agency
Dewatering General Permit NOI Processing
5 Post Office Square, Suite 100
Mail Code OEP06-01
Boston, Massachusetts 02109-3912

Re: Notice of Intent for Temporary Discharge
Hatherly Country Club
Scituate, MA
ESS Project No. H180-000

To Whom It May Concern,

ESS Group, Inc. (ESS), on behalf of Hatherly Country Club (the Applicant), respectfully submits this EPA Dewatering General Permit (DGP) Notice of Intent (NOI) for the Hatherly Country Club, located at 663 Hatherly Road, in Scituate, Massachusetts (hereafter referred to as the Site or subject Site). This submittal has been prepared in order to obtain a permit for the discharge of untreated surface water from a man-made pond on the golf course property to Musquashcut Brook while the pond is temporarily dewatered in order to expand its capacity.

The required NOI Form contained in the DGP permit is included as **Attachment A**.

SITE DESCRIPTION

The longitude and latitude for the center of the pond is approximately 42.225496 degrees north and 70.763888 degrees west, respectively. The location of the Site relative to regional geographic features is shown on the Site Locus Map included as **Figure 1**.

Hatherly Country Club is an approximately 115-acre private 18-hole golf course located in North Scituate, MA. It is centrally divided by Gannett Road, which runs in an east-west direction. All dewatering work would occur south of Gannett Road. The surrounding area is predominantly natural or developed open space with some residential properties. The country club is generally located west of Musquashcut Pond and the Minot neighborhood of Scituate and east of the salt marshes associated with Musquashcut Brook and other tidal creeks that discharge to Cohasset Harbor. In addition to the Gannett Road boundary to the north, the Site is bound by Musquashcut Brook to the southwest and residential properties on Hatherly Road to the east.

PROPOSED SCOPE OF WORK

Hatherly Country Club (HCC) seeks to increase irrigation water storage capacity by dredging and enlarging an existing pond on its golf course and constructing a new pump house to connect the pond to the golf course's existing irrigation system as the project's first phase. HCC is also proposing to install a liner in the pond to reduce saltwater intrusion. For the second phase, a small-scale package desalinization system will be installed in the pump house to improve the quality of water being delivered to the irrigation system. Proposed pond dewatering and dredging plans are included as **Figure 2**.

MONITORING RESULTS

On August 21, 2019, ESS collected one surface water sample from the pond that will be dewatered and dredged under this project. The sample was collected in clean plastic bottles (preserved and non-preserved), labeled in the field, stored on ice in a cooler, and submitted under standard chain-of-custody protocol to Phoenix Environmental Laboratories of Manchester, Connecticut for analysis of hardness,

chloride, and the requisite metals listed in Table 2.1.1 of the Remediation General Permit (RGP) to confirm that the project would not require an RGP. At the time of sample collection, ESS also measured the temperature, dissolved oxygen, salinity, and specific conductance of the pond water using a multi-meter sonde and the pH of the pondwater using a handheld electronic instrument (Table 1).

Table 1.0. Pond Field Measurement Parameters, August 21, 2019

Parameter	Unit	Result
Temperature	C	25.3
pH	su	7.1
Salinity	ppth	0.9
Specific conductance	uS/cm	1739
Dissolved oxygen	mg/L	1.6

Laboratory analytical results for the surface water sample showed a hardness of 243 mg/L and 525 mg/L chloride. No metals were detected except for iron, which was present at 0.074 mg/L, which is below the effluent limitation of 5 mg/L. A copy of Phoenix's analytical report is included as **Attachment B**. As requested in Section 3 of the NOI, no pH neutralization and/or dichlorination chemicals are used in the discharge. Total suspended solids will be controlled in the discharge using filter socks (Figure 3).

RECEIVING WATER CLASSIFICATION

Musquashcut Brook is a Class SA marine waterbody. Salinity measurements of Musquashcut Brook collected by ESS in September 2018 indicate that the salinity concentration of this waterbody is approximately 26.4 ppt. Musquashcut Pond, located upstream of the receiving water, was listed as impaired due to excess phosphorus, chlorophyll a, and algae and low dissolved oxygen levels on MassDEP's 2016 Integrated List of Waters. Water from Musquashcut Brook may flow upstream into the pond during incoming tides. Neither the brook nor the pond are Outstanding Resource Waters.

ENVIRONMENTAL RECEPTORS

According to the Massachusetts Office of Geographic Information Systems (MassGIS) online MassDEP Phase 1 Site Assessment Map (http://maps.massgis.state.ma.us/images/dep/mcp/mcp.htm; **Attachment C**) and Natural Heritage Endangered Species Program (NHESP) online maps, no Priority Habitat of Rare Species or Estimated Habitats of Rare Wildlife are located within the work area or at the proposed discharge location. In addition, the MassGIS maps do not depict any Areas of Critical Environmental Concern on or within one-half mile of the Site.

As part of the Endangered Species Act eligibility determination, ESS used the U.S. Fish and Wildlife Service's (FWS's) online Information for Planning and Consultation (IPaC) System found at https://ecos.fws.gov/ipac/ to generate letters describing threatened and/or endangered species and critical habitats that may occur within the boundary of the proposed project or that may be affected by the proposed project. According to the FWS letter generated for the Site, two threatened species, the Red Knot (*Calidris canutus rufa*) and Northern Long-eared Bat (*Myotis septentrionalis*), should be considered in an effects analysis for the project. The letter further indicates that no critical habitats for either species exist within the proposed project area. As no tree clearing is proposed and the project area itself does not provide appropriate habitat for Red Knot, the proposed project will have "no effect" on either species, and as such, the proposed project meets FWS Criterion C. Copies of the FWS letters generated for the proposed project are included as **Attachment D**. No federally-ESA-listed species managed by National

Oceanographic and Atmospheric Administration (NOAA) have been identified as occurring in the vicinity of the Site.

Because the Site is located in a coastal community, ESS also consulted the NOAA online maps of Essential Fish Habitat (EFH). Twenty-nine species are identified as having EFH in Musquashcut Brook, Cohasset Harbor, and/or the Scituate shoreline of Massachusetts Bay (**Attachment E**). No Habitat Areas of Particular Concern were identified at the Site. Because no EFH will be removed, source water in the pond was determined to be compliant with state and federal water quality standards, and discharge will occur outside of established time-of-year restrictions for the South Coastal watershed (March 15th-June 30th and September 1st-November 15th), the Project will not adversely impact EFH species, as EPA concurs in Section IV (B) of the DGP Fact Sheet.

REVIEW OF NATIONAL REGISTER OF HISTORIC PLACES (CEA)

On August 6, 2019, ESS obtained a list of all Historic Places in the vicinity of the Site from the Massachusetts Cultural Resources Information System (MACRIS) online database at http://mhc-macris.net/. The database indicates that there are two inventoried historic features in the vicinity of the Site: the John Bryant Turner House (MACRIS # SCI.133, located at 40 Wigwam Lane, approximately 1,400 feet northwest of the proposed work area,) and the Farm Neck historic inventory area (MACRIS # SCI.G) located approximately 200 feet east of the proposed work area, centered around the discharge of Musquashcut Pond into Musquashcut Brook at Hatherly Road. Neither of these locations will be physically disturbed by the proposed dewatering.

A search of the National Park Service' (NPS) National Register of Historic Places online geospatial database did not identify any Historic Places in the vicinity of the Site. As the proposed project does not involve the demolition or redevelopment of protected Historic Places identified in the MACRIS or NPS databases, the discharge and related activities will not have the potential to affect historic properties, and therefore, the project meets the National Historic Preservation Act (NHPA) Criterion B.

Should you have any questions regarding this submittal or require additional information, please contact the undersigned via email at apatterson@essgroup.com or by phone at 401-330-1233.

Sincerely,

ESS GROUP, INC.

Alexander Patterson
Project Scientist

Attachments: Attachment A NOI
Attachment B Laboratory Results
Attachment C MassDEP Phase 1 Site Assessment Map
Attachment D USFWS Official Species List for Project Site
Attachment E EFH table

C: Hatherly Country Club

Figures

ess group
environmental consulting & engineering services

Hatherly Country Club
Irrigation Supply System Improvement Project

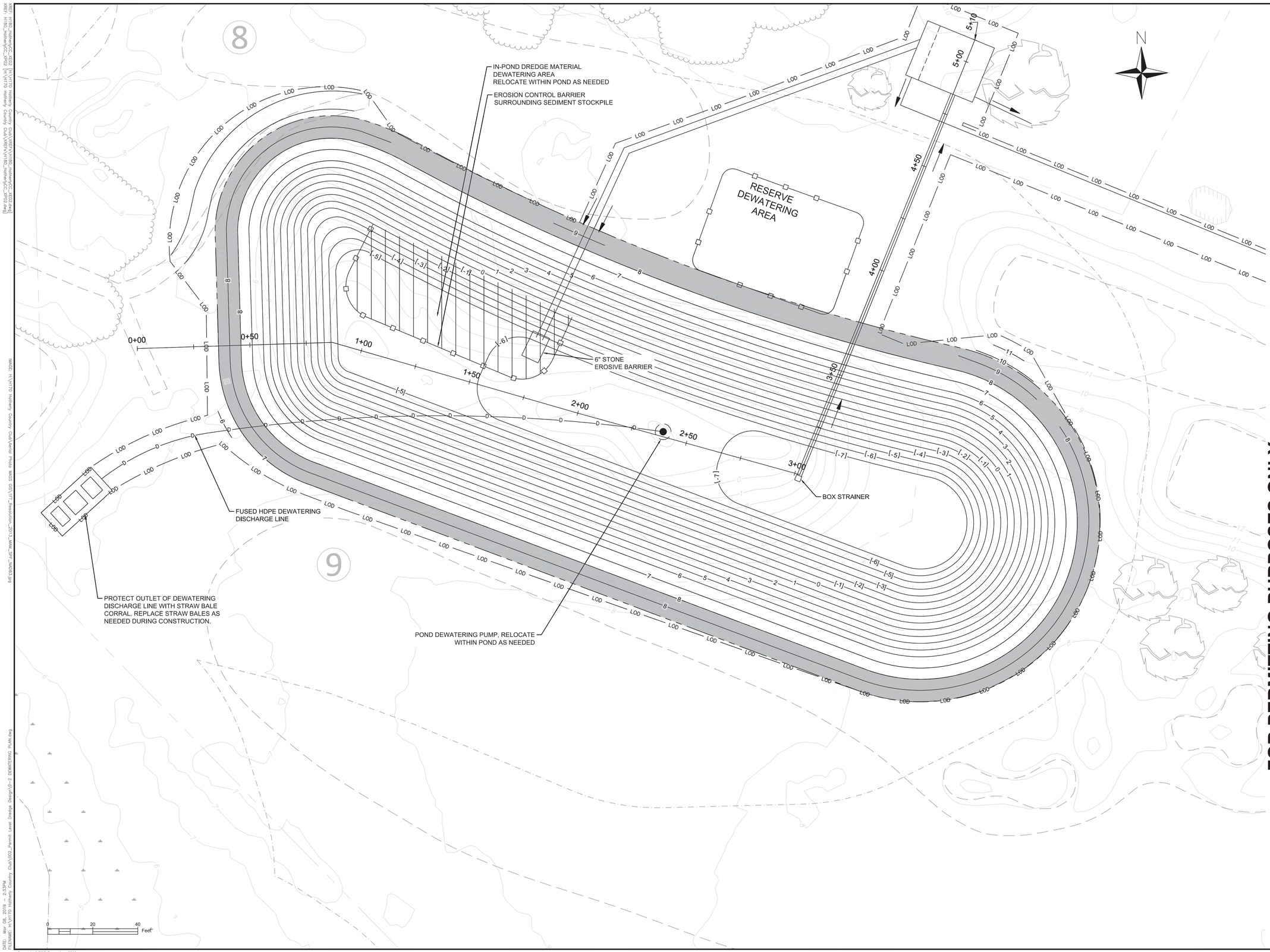
Scituate, Massachusetts

1 inch = 2,000 feet

Source: 1) MassGIS, Half-Meter Resolution, 2001
2) ESS, GPS Locations, 2003

Project Locus

Figure 1



MA PROFESSIONAL ENGINEER
ENDORSEMENT

COMMONWEALTH OF MASSACHUSETTS
PAYSON R. WHITNEY, III
CIVIL
No. 41703
REGISTERED PROFESSIONAL ENGINEER

2019.03.08 14:43:52
-05'00'
Not Valid Without Signature

FOR PERMITTING PURPOSES ONLY

ess group
environmental consulting
& engineering services

100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

No.	REVISION	DATE	APP BY
1	CONCOM COMMENTS	3/6/2019	PRW

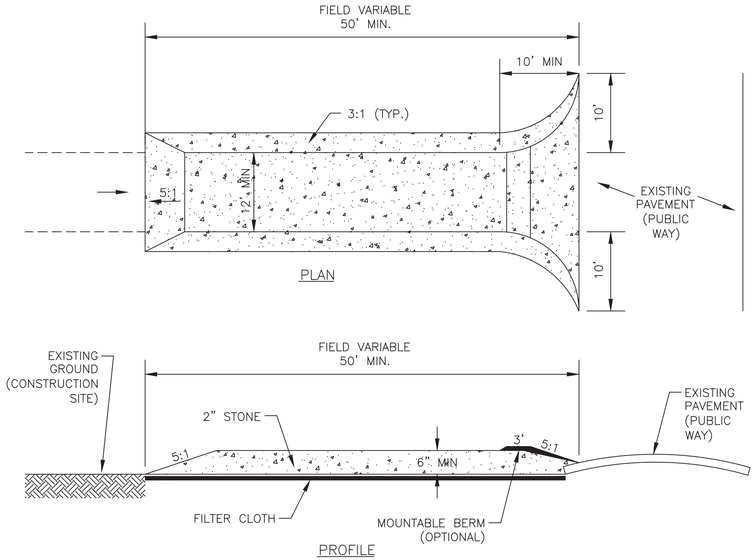
DRAWN BY: GJR	CHECKED BY: PRW
DESIGNED BY: GJR	APPROVED BY: PRW

HATHERLY COUNTRY CLUB
AP 14 LOT 0
HATHERLY ROAD
SCITUATE, MA

DREDGE MATERIAL
DEWATERING PLAN

PROJECT No.:	DRAWING No.
DATE OF ISSUE: NOVEMBER 2018	**D-3**
SHEET No.: 6 OF 11	
SCALE: 1"=20'	

DATE: Mar 08, 2019 – 2:33PM
FILENAME: H:\V170 Hatherly Country Club\002_Permit Level Dredge Design\D-2 DEWATERING PLAN.dwg

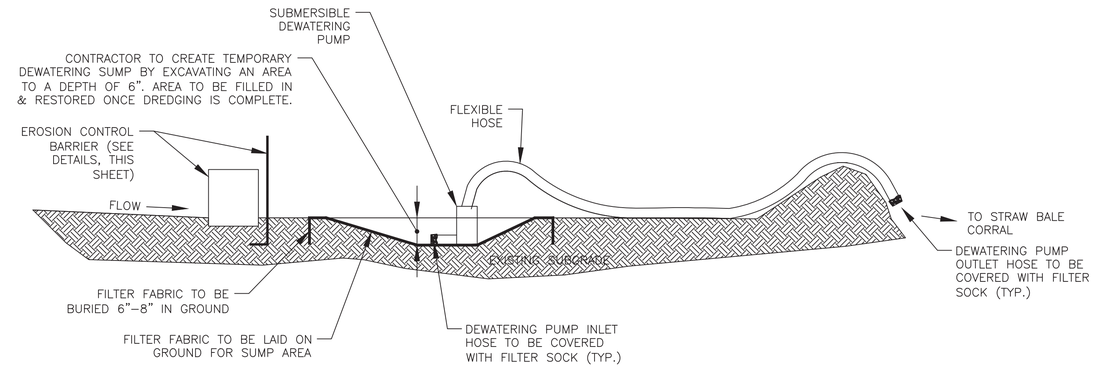


CONSTRUCTION SPECIFICATIONS:

1. USE 2" DIAMETER STONE OR RECLAIMED/RECYCLED CONCRETE EQUIVALENT.
2. RECOMMENDED LENGTH GREATER THAN 50 FEET WHERE PRACTICAL.
3. THICKNESS NOT LESS THAN 6 INCHES.
4. 12-FOOT MINIMUM WIDTH, BUT NOT LESS THAN FULL WIDTH AT POINTS WHERE INGRESS AND EGRESS OCCUR.
5. FILTER CLOTH SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.
6. ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION EGRESS SHALL BE PIPED ACROSS THE EGRESS. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WILL BE PERMITTED.
7. EGRESS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.
9. REMOVE STABILIZED CONSTRUCTION EGRESS PRIOR TO PLACEMENT OF HOT MIX ASPHALT PAVEMENT.
10. EXACT LOCATION OF CONSTRUCTION EGRESS SHALL BE APPROVED BY OWNERS REPRESENTATIVE BEFORE INSTALLATION

1/8 STABILIZED CONSTRUCTION EGRESS

SCALE: NTS



2/8 IN-POND DEWATERING AREA DETAIL

SCALE: NTS

MA PROFESSIONAL ENGINEER ENDORSEMENT

COMMONWEALTH OF MASSACHUSETTS
PAYSON R. WHITNEY, III
CIVIL
No. 41703
REGISTERED PROFESSIONAL ENGINEER

2019.03.11 10:56:08 -04'00'
Not Valid Without Signature

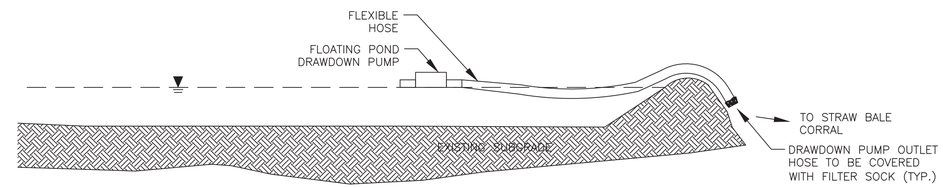
MA DEP FILE NO.

068-2761

NOTES:
1. SIGN SHALL BE NOT LESS THAN 2 SQUARE FEET OR MORE THAN 3 SQUARE FEET IN SIZE.
2. THE LOCATION OF THE SIGN IS TO BE DETERMINED BY THE ENGINEER AND THE OWNER.
3. SIGN BACKGROUND SHALL BE WHITE.
4. SIGN LETTERING SHALL BE BLACK, AND AT LEAST $1\frac{1}{2}$ INCHES TALL.
5. SIGN SHALL NOT BE ATTACHED TO A LIVE TREE.

3/8 WETLANDS PROTECTION ACT SIGN

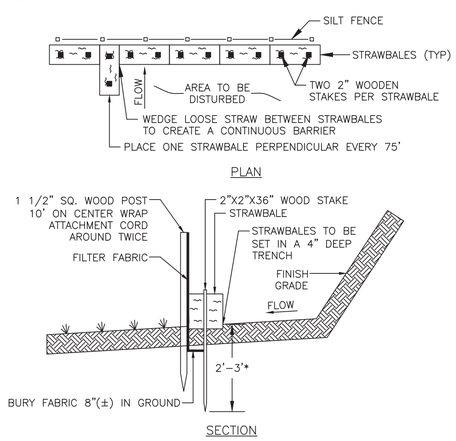
SCALE: NTS



NOTE:
1. A FLOATING SKIMMER-TYPE PUMP SYSTEM SHALL BE USED FOR POND DRAWDOWN OPERATIONS TO REDUCE DISCHARGE TURBIDITY.

4/8 POND DRAWDOWN DETAIL

SCALE: NTS

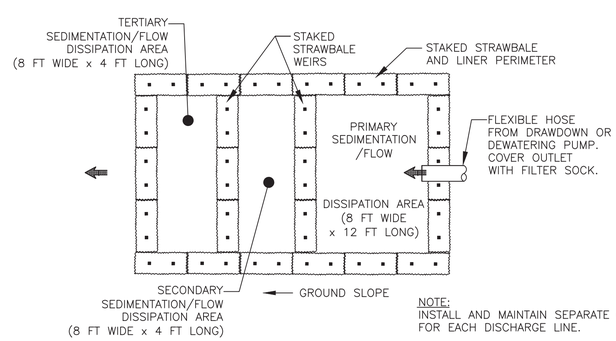


NOTE:

* = DEPTH TO BE 2' UNLESS POST IS TO BE SET IN PEAT; IN PEAT DRIVE BEYOND 2' DEPTH BY HAND TO REFUSAL OR 3' MAX.

5/8 IN-POND DEWATERING AREA EROSION CONTROL BARRIER

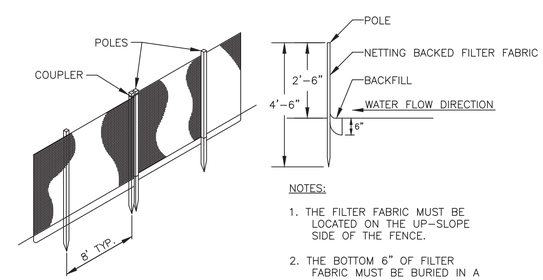
SCALE: NTS



NOTE:
INSTALL AND MAINTAIN SEPARATE CORRALS FOR EACH DISCHARGE LINE.

6/8 STRAW BALE FLOW DISSIPATION CORRAL

SCALE: NTS



NOTES:

1. THE FILTER FABRIC MUST BE LOCATED ON THE UP-SLOPE SIDE OF THE FENCE.
2. THE BOTTOM 6" OF FILTER FABRIC MUST BE BURIED IN A PRE-EXCAVATED TRENCH WHICH WILL BE BACKFILLED AND TAMPED FOR STABILITY.

7/8 SILT FENCE

SCALE: NTS

FOR PERMITTING PURPOSES ONLY

ess group
environmental consulting & engineering services

100 Fifth Avenue, 5th Floor
Waltham, Massachusetts 02451
p 781.419.7696
www.essgroup.com

No.	REVISION	DATE	APP BY
2	PEER REVIEW COMMENTS	3/11/2019	PRW
1	CONCOM COMMENTS	3/6/2019	PRW

DRAWN BY: GJR | CHECKED BY: PRW
DESIGNED BY: GJR | APPROVED BY: PRW

HATHERLY COUNTRY CLUB
AP 14 LOT 0
HATHERLY ROAD
SCITUATE, MA

DREDGING DETAILS

PROJECT No.: H180-000
DATE OF ISSUE: NOVEMBER 2018
SHEET No.: 8 OF 11
SCALE:

DRAWING No.
D-5

Appendix A

NOI

II. Suggested Notice of Intent (NOI) Format

1. General facility information. Please provide the following information about the facility.

a) Name of facility:	**Mailing Address for the Facility:**	
b) Location Address of the Facility (if different from mailing address):	**Facility Location** **longitude:_____** **latitude:_____**	**Type of Business:** **Facility SIC codes:**

c) Name of facility owner: _____ Owner's email: _____

Owner's Tel #: _____ Owner's Fax #: _____

Address of owner (if different from facility address)

Owner is (check one): 1. Federal____2. State _____ 3. Private_____ 4. Other _____(Describe)_____

Legal name of Operator, if not owner: _____

Operator Contact Name: _____

Operator Tel Number: _____ Fax Number: _____

Operator's email: _____

Operator Address (if different from owner)

d) Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water. Map attached? _____

e) Check Yes or No for the following:

1. **Has a prior NPDES permit been granted for the discharge? Yes ____ No____ If Yes, Permit Number: _____**
2. **Is the discharge a "new discharger" as defined by 40 CFR Section 122.2? Yes_____ No_____**
3. **Is the facility covered by an individual NPDES permit? Yes_____ No_____ If Yes, Permit Number ____**
4. **Is there a pending application on file with EPA for this discharge? Yes _____ No _____ If Yes, date of submittal:**

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed)

a) Name of receiving water into which discharge will occur: _____
State Water Quality Classification: _____ Freshwater: _____ Marine Water: _____

b) Describe the discharge activities for which the owner/applicant is seeking coverage:
1. **Construction dewatering of groundwater intrusion and/or storm water accumulation.**
2. **Short-term or long-term dewatering of foundation sumps.**
3. **Other.**

c) Number of outfalls _____

For each outfall:

d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow _____ GPD
Average Monthly Flow _____ GPD

e.) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH _____ Min pH _____

f.) Identify the source of the discharge (i.e. potable water, surface water, or groundwater). If groundwater, the facility shall submit effluent test results, as required in Section 4.4.5 of the General Permit.

g.) What treatment does the wastewater receive prior to discharge? Wastewater will be treated to remove suspended solids and reduce turbidity.

h.) Is the discharge continuous? Yes _____ No _____ If no, is the discharge periodic (P) (occurs regularly, i.e., monthly or seasonally, but is not continuous all year) or intermittent (I) (occurs sometimes but not regularly) or both (B) _____
If (P), number of days or months per year of the discharge _____ and the specific months of discharge _____ _____;
If (I), number of days/year there is a discharge _____
Is the discharge temporary? Yes _____ No _____
If yes, approximate start date of dewatering _____ approximate end date of dewatering _____ _____

i.) Latitude and longitude of each discharge within 100 feet (See http://www.epa.gov/tri/report/siting_tool): Outfall 1: long._____ lat._____; Outfall 2: long._____ lat._____; Outfall 3: long._____ lat._____.

j.) If the source of the discharge is potable water, please provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water and attach any calculation sheets used to support stream flow and dilution calculations_____ cfs
(See Appendix VII for equations and additional information)

MASSACHUSETTS FACILITIES: See Section 3.4 and Appendix 1 of the General Permit for more information on Areas of Critical Environmental Concern (ACEC):

k.) Does the discharge occur in an ACEC? Yes _____ No _____
If yes, provide the name of the ACEC: _____

3. Contaminant Information

a) Are any pH neutralization and/or dechlorination chemicals used in the discharge? If so, include the chemical name and manufacturer; maximum and average daily quantity used as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC_{50} in percent for aquatic organism(s)).

b) Please report any known remediation activities or water-quality issues in the vicinity of the discharge.

4. Determination of Endangered Species Act Eligibility: Provide documentation of ESA eligibility as required at Part 3.4 and Appendix IV. In addition, respond to the following questions.

a) Which of the three eligibility criteria listed in Appendix IV, Criterion (A, B, or C) have you met? _____

b) Please attach documentation with your NOI supporting your response. Please see Appendix IV for acceptable documentation

5. Documentation of National Historic Preservation Act requirements: Please respond to the following questions:

a) See Screening Process in Appendix III and respond to questions regarding your site and any historic properties listed or eligible for listing on the National Register of Historic Places. Question 1: Yes _____ No ____ ; Question 2: No _____ Yes _____

b) Have any State or Tribal historic preservation officers been consulted in this determination? Yes _____ or No _____ If yes, attach the results of the consultation(s).

c) Which of the three National Historic Preservation Act eligibility criterion listed in Appendix III, Criterion (A, B, or C) have you met? _____

d) Is the project located on property of religious or cultural significance to an Indian Tribe? Yes _____ or No ____ If yes, provide that name of the Indian Tribe associated with the property. _____

6. Supplemental Information: Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit

7. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the dewatering system; (2) the discharge consists solely of dewatering and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product or finished product; (4) if the discharge of dewatering subsequently mixes with other permitted wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for dewatering discharge; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate 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, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility Name: Hatherly Country Club

Operator signature:

Print Full Name and Title: Secretary and Attorney - William H. Ohrenberger, III

Date: September 11, 2019

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.

Appendix B

Lab Results

PHOENIX
Environmental Laboratories, Inc.

Monday, August 26, 2019

Attn: Mr Elizabeth Cianciola
ESS Group Inc.
10 Hemingway Drive 2nd Floor
Riverside, RI 02915-2224

Project ID: H180-000 HATHERLY
SDG ID: GCD90648
Sample ID#s: CD90648

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

August 26, 2019

SDG I.D.: GCD90648

Sample CD90648 was received past hold time for Chromium, Hexavalent (SM3500CRB).

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Sample Id Cross Reference

August 26, 2019

SDG I.D.: GCD90648

Project ID: H180-000 HATHERLY

Client Id	Lab Id	Matrix
HCC-POND	CD90648	SURFACE WATER

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 26, 2019

FOR: Attn: Mr Elizabeth Cianciola
ESS Group Inc.
10 Hemingway Drive 2nd Floor
Riverside, RI 02915-2224

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/21/19	8:30
Location Code:	ESSGRPRI	Received by:	CP	08/22/19	16:06
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCD90648
Phoenix ID: CD90648

Project ID: H180-000 HATHERLY
Client ID: HCC-POND

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	08/24/19	EK	SW6010D
Arsenic	< 0.004	0.004	mg/L	1	08/24/19	EK	SW6010D
Cadmium	< 0.001	0.001	mg/L	1	08/24/19	EK	SW6010D
Chromium	< 0.001	0.001	mg/L	1	08/24/19	EK	SW6010D
Copper	< 0.005	0.005	mg/L	1	08/24/19	EK	SW6010D
Iron	0.074	0.010	mg/L	1	08/24/19	EK	E200.7
Hardness (CaCO3)	243	0.1	mg/L	1	08/26/19		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/23/19	MGH	SW7470A
Nickel	< 0.001	0.001	mg/L	1	08/24/19	EK	SW6010D
Lead	< 0.002	0.002	mg/L	1	08/24/19	EK	SW6010D
Antimony	< 0.005	0.005	mg/L	1	08/24/19	EK	SW-7.3
Selenium	< 0.010	0.010	mg/L	1	08/24/19	EK	SW6010D
Trivalent Chromium	< 0.001	0.001	mg/L	1	08/26/19		Calculation
Zinc	< 0.004	0.004	mg/L	1	08/24/19	EK	SW6010D
Chloride	525	15.0	mg/L	5	08/23/19	TB	SM4500CLE-11
Chromium, Hexavalent	< 0.01	0.01	mg/L	1	08/22/19 18:14	O	SM3500CRB-11
Mercury Digestion	Completed				08/23/19	LS/I	SW7470A
Total Metals Digestion	Completed				08/23/19	AG	

Project ID: H180-000 HATHERLY
Client ID: HCC-POND

Phoenix I.D.: CD90648

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
August 26, 2019
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

August 26, 2019

QA/QC Data

SDG I.D.: GCD90648

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 493676 (mg/L), QC Sample No: CD90188 (CD90648)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	116			98.5			75 - 125	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 75-125%													
QA/QC Batch 493811 (mg/L), QC Sample No: CD90584 (CD90648)													
ICP Metals - Aqueous													
Antimony	BRL	0.005	<0.005	<0.005	NC	114	111	2.7	107			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	106	104	1.9	101			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	105	105	0.0	98.5			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	106	105	0.9	100			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	105	107	1.9	102			75 - 125	20
Iron	BRL	0.010	0.075	0.073	2.70	109	106	2.8	102			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	101	99.7	1.3	94.6			75 - 125	20
Nickel	BRL	0.001	0.005	0.005	0	105	104	1.0	98.6			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	103	101	2.0	97.1			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	103	105	1.9	100			75 - 125	20
Zinc	BRL	0.004	0.041	0.045	9.30	106	104	1.9	101			75 - 125	20

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QA/QC Report

August 26, 2019

QA/QC Data

SDG I.D.: GCD90648

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 493628 (mg/L), QC Sample No: CD90648 (CD90648)													
Chromium, Hexavalent	BRL	0.01	<0.01	<0.01	NC	102			112			90 - 110	30
Comment:													
Additional Hexavalent Chromium criteria: LCS acceptance range for waters is 90-110% and MS acceptance range is 85-115%.													
QA/QC Batch 493815 (mg/L), QC Sample No: CD90648 (CD90648)													
Chloride	BRL	3.0	525	535	1.90	94.2			107			90 - 110	20

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
August 26, 2019

Monday, August 26, 2019

Criteria: None

State: MA

Sample Criteria Exceedances Report

GCD90648 - ESSGRPRI

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

August 26, 2019 SDG I.D.: GCD90648

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report: None.

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]
Temp 2.2 °C Pg of

PHOENIX Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery/Contact Options:
[ ] Fax:
[ ] Phone:
[X] Email: eciancicla@essgroup.com

Customer: ESS Group Inc.
Address: 404 Wyman St
Suite 375
Waltham, MA 02451

Project: H180-000 Hatherly
Report to: Elisabeth Ciancicla
Invoice to: BARBARA CABRAL
QUOTE #

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification
Sampler's Signature: Elisabeth Ciancicla Date:

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe **OIL**=Oil
B=Bulk **L**=Liquid **X** = _____(Other)

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Chloride	Chromium (VI)	Hardness	Total metals: Sb, As, Cd, Cr (III), Cu, Fe, Pb, Hg, Ni, Se, Ag, Zn	GL Amber 8 oz. w/H3PO4	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [X] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle w/tio	Bacteria Bottle as is
90648	HCC-pond	SW	8/21/19	8:30	✓	✓	✓	✓							2		1			

Relinquished by:	Accepted by:	Date:	Time:
Elisabeth Ciancicla	[signature]	8-22-19	13:25
[signature]	Krystal Hill	8/22/19	16:00

Comments, Special Requirements or Regulations:
Ok to run Cr (VI) past hold

Turnaround Time:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] Standard
[ ] Other
* SURCHARGE APPLIES

RI
[ ] (Residential) Direct Exposure
[ ] (Comm/Industrial) Direct Exposure
[ ] GA Leachability
[ ] GB Leachability
[ ] GA-GW Objectives
[ ] GB-GW Objectives

CT
[ ] RCP Cert
[ ] GW Protection
[ ] SW Protection
[ ] GA Mobility
[ ] GB Mobility
[ ] Residential DEC
[ ] I/C DEC
[ ] Other

MA
[ ] MCP Certification
[ ] GW-1 [ ] MWRA eSMART
[ ] GW-2
[ ] GW-3
[ ] S-1 GW-1 [ ] S-1 GW-2 [ ] S-1 GW-3
[ ] S-2 GW-1 [ ] S-2 GW-2 [ ] S-2 GW-3
[ ] S-3 GW-1 [ ] S-3 GW-2 [ ] S-3 GW-3
[ ] SW Protection

State where samples were collected: MA

Data Format
[X] Excel
[ ] PDF
[ ] GIS/Key
[ ] EQuIS
[ ] Other

Data Package
[ ] Tier II Checklist
[ ] Full Data Package*
[X] Phoenix Std Report
[ ] Other

* SURCHARGE APPLIES

Appendix C

Phase 1 Site Assessment Map

MassDEP - Bureau of Waste Site Cleanup

Phase 1 Site Assessment Map: 500 feet & 0.5 Mile Radii

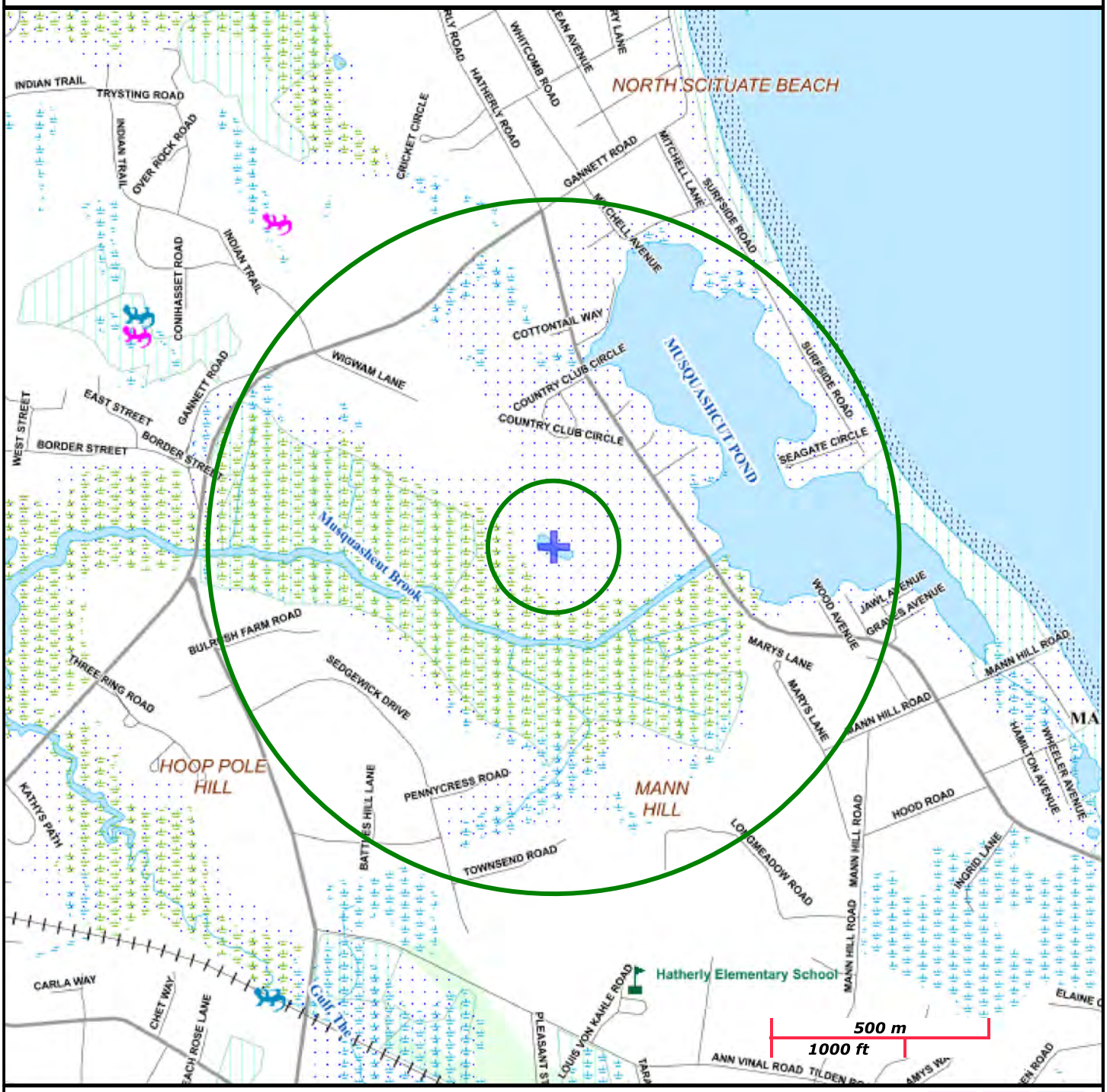
Site Information:

SCITUATE, MA

NAD83 UTM Meters:
4676327mN , 354432mE (Zone: 19)
February 12, 2019

The information shown is the best available at the date of printing. However, it may be incomplete. The responsible party and LSP are ultimately responsible for ascertaining the true conditions surrounding the site. Metadata for data layers shown on this map can be found at: http://www.mass.gov/mgis/.

MassDEP
Commonwealth of Massachusetts
Department of Environmental Protection



Roads: Limited Access, Divided, Other Hwy, Major Road, Minor Road, Track, Trail
Boundaries: Town, County, DEP Region; Train; Powerline; Pipeline; Aqueduct
Basins: Major, PWS; Streams: Perennial, Intermittent, Man Made Shore, Dam
Aquifers: Medium Yield, High Yield, EPA Sole Source
Non Potential Drinking Water Source Area: Medium, High (Yield)
PWS Protection Areas: Zone II, IWPA, Zone A
Hydrography: Open Water, PWS Reservoir, Tidal Flat
Wetlands: Freshwater, Saltwater, Cranberry Bog
FEMA 100yr Floodplain; Protected Open Space; ACEC
Est. Rare Wetland Wildlife Hab; Vernal Pool: Cert., Potential
Solid Waste Landfill; PWS: Com.GW,SW, Emerg., Non-Com.

Appendix D

USFWS Official Species List

United States Department of the Interior

FISH AND WILDLIFE SERVICE
New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
Phone: (603) 223-2541 Fax: (603) 223-0104
http://www.fws.gov/newengland

In Reply Refer To: August 08, 2019
Consultation Code: 05E1NE00-2019-SLI-2524
Event Code: 05E1NE00-2019-E-06527
Project Name: Hatherly Country Club Irrigation Supply System Improvement

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

New England Ecological Services Field Office
70 Commercial Street, Suite 300
Concord, NH 03301-5094
(603) 223-2541

Project Summary

Consultation Code: 05E1NE00-2019-SLI-2524

Event Code: 05E1NE00-2019-E-06527

Project Name: Hatherly Country Club Irrigation Supply System Improvement

Project Type: WATER SUPPLY / DELIVERY

Project Description: The Hatherly Country Club (HCC) property consists of an approximately 115-acre private 18-hole golf course located in northern Scituate, Massachusetts. HCC seeks to increase irrigation water storage capacity by dredging and enlarging an existing golf course pond and constructing a new pump house to connect the pond to the golf course's existing irrigation system as the project's first phase. Approximately 13,250 cubic yards of material would be removed in and around the pond in order to expand its footprint from 35,840 square feet to approximately 50,000 square feet. HCC is also proposing to install a liner in the pond to reduce saltwater intrusion. For the second phase, a small-scale package desalination system will be installed in the pump house to improve the quality of water being delivered to the irrigation system. The desalination system will discharge approximately 14,440 gallons of brine per day into estuarine waters in Musquashcut Brook. It is anticipated that the first phase will be completed between November of 2019 and March of 2020.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/42.22594328097951N70.76705441574285W

Counties: Plymouth, MA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

---

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Birds

NAME	STATUS
Red Knot *Calidris canutus rufa* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

Appendix E

EFH Table

EFH Data Notice: Essential Fish Habitat (EFH) is defined by textual descriptions contained in the fishery management plans developed by the regional Fishery Management Councils. In most cases mapping data can not fully represent the complexity of the habitats that make up EFH. This report should be used for general interest queries only and should not be interpreted as a definitive evaluation of EFH at this location. A location-specific evaluation of EFH for any official purposes must be performed by a regional expert. Please refer to the following links for the appropriate regional resources.

Greater Atlantic Regional Office
Atlantic Highly Migratory Species Management Division

Query Results

Degrees, Minutes, Seconds: Latitude = 42º13'31" N, Longitude = 71º13'48" W
Decimal Degrees: Latitude = 42.23, Longitude = -70.77

The query location intersects with spatial data representing EFH and/or HAPCs for the following species/management units.

*** W A R N I N G ***

Please note under "Life Stage(s) Found at Location" the category "ALL" indicates that all life stages of that species share the same map and are designated at the queried location.

EFH

Show	Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Atlantic Sea Scallop	ALL	New England	Amendment 14 to the Atlantic Sea Scallop FMP
			Atlantic Wolffish	ALL	New England	Amendment 14 to the Northeast Multispecies FMP
			Haddock	Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Winter Flounder	Eggs Juvenile Larvae/Adult	New England	Amendment 14 to the Northeast Multispecies FMP
			Little Skate	Juvenile Adult	New England	Amendment 2 to the Northeast Skate Complex FMP

Show	Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Ocean Pout	Adult Eggs Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Atlantic Herring	Juvenile Adult Larvae	New England	Amendment 3 to the Atlantic Herring FMP
			Atlantic Cod	Larvae Adult Juvenile Eggs	New England	Amendment 14 to the Northeast Multispecies FMP
			Pollock	Adult Juvenile Eggs Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
			Red Hake	Adult Eggs/Larvae/Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Silver Hake	Eggs/Larvae Adult	New England	Amendment 14 to the Northeast Multispecies FMP
			Yellowtail Flounder	Adult Juvenile Larvae Eggs	New England	Amendment 14 to the Northeast Multispecies FMP
			Monkfish	Eggs/Larvae	New England	Amendment 4 to the Monkfish FMP
			White Hake	Larvae Adult Eggs Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP
			Windowpane Flounder	Adult Larvae Eggs Juvenile	New England	Amendment 14 to the Northeast Multispecies FMP

Show	Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Winter Skate	Adult Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
			American Plaice	Adult Juvenile Larvae Eggs	New England	Amendment 14 to the Northeast Multispecies FMP
			Acadian Redfish	Larvae	New England	Amendment 14 to the Northeast Multispecies FMP
			Thorny Skate	Juvenile	New England	Amendment 2 to the Northeast Skate Complex FMP
			Northern Shortfin Squid	Adult	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
			Longfin Inshore Squid	Juvenile Adult	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
			Atlantic Mackerel	Eggs Larvae Juvenile Adult	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11
			Bluefish	Adult Juvenile	Mid-Atlantic	Bluefish
			Atlantic Butterfish	Eggs Larvae Adult	Mid-Atlantic	Atlantic Mackerel, Squid,& Butterfish Amendment 11

Show	Link	Data Caveats	Species/Management Unit	Lifestage(s) Found at Location	Management Council	FMP
			Spiny Dogfish	Sub-Adult Female Adult Male Adult Female	Mid-Atlantic	Amendment 3 to the Spiny Dogfish FMP
			Atlantic Surfclam	Juvenile Adult	Mid-Atlantic	Surfclam and Ocean Quahog
			Scup	Juvenile Adult	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass
			Summer Flounder	Larvae	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass
			Black Sea Bass	Juvenile Adult	Mid-Atlantic	Summer Flounder, Scup, Black Sea Bass

HAPCs

No Habitat Areas of Particular Concern (HAPC) were identified at the report location.

EFH Areas Protected from Fishing

No EFH Areas Protected from Fishing (EFHA) were identified at the report location.

Spatial data does not currently exist for all the managed species in this area. The following is a list of species or management units for which there is no spatial data. **For links to all EFH text descriptions see the complete data inventory: open data inventory -->
Mid-Atlantic Council HAPCs, No spatial data for summer flounder SAV HAPC.

From: Alex Patterson
To: GeneralPermit, DeWatering
Subject: RE: Hatherly Country Club DGP Application
Date: Tuesday, October 01, 2019 12:22:14 PM

Hi Michelle,

Based on the sampling that we've conducted, the water in the pond is essentially neutral (7.1 s.u.), so based on that we would anticipate that the discharge would be within the range of 6.5 to 8.5 s.u. I believe the range stated on page 10 of the NOI simply represents approximately one s.u. higher and lower than the sampling results.

Alex

Alexander H. Patterson | Project Scientist
ESS Group, Inc.
10 Hemingway Drive, 2nd Floor, East Providence, RI 02915 | p 401.330.1233

E-news | LinkedIn | Twitter | Instagram | www.essgroup.com

From: Vuto, Michelle [mailto:Vuto.Michelle@epa.gov] **On Behalf Of** GeneralPermit, DeWatering
Sent: Tuesday, October 01, 2019 12:05 PM
To: Alex Patterson
Subject: RE: Hatherly Country Club DGP Application

Hi Alex,

EPA is reviewing the NOI for the Hatherly Country Club project. Can you please respond confirming that the project will stay in the pH range of 6.5-8.5 s.u.? I see the sample result fits in this range, but page 10 of the NOI mentions a range of 6.0-8.0.

Thanks,
Michelle

Michelle Vuto
Stormwater & Construction Permits
U.S. EPA Region 1
5 Post Office Square (06-4)
Boston, MA 02109-3912
617-918-1222

From: Alex Patterson <apatterson@essgroup.com>
Sent: Monday, September 16, 2019 4:51 PM
To: GeneralPermit, DeWatering <GeneralPermit.Dewatering@epa.gov>

Subject: RE: Hatherly Country Club DGP Application

Thank you Michelle,

We submitted a copy of the DGP application to DEP today. I'll follow up with Jennifer.

Best,

Alex

Alexander H. Patterson | Project Scientist
ESS Group, Inc.
10 Hemingway Drive, 2nd Floor, East Providence, RI 02915 | p 401.330.1233

E-news | LinkedIn | Twitter | Instagram | www.essgroup.com

From: Vuto, Michelle [mailto:Vuto.Michelle@epa.gov] **On Behalf Of** GeneralPermit, DeWatering
Sent: Monday, September 16, 2019 4:45 PM
To: Alex Patterson
Subject: RE: Hatherly Country Club DGP Application

Hi Alex,

Because this project discharges to a SA water, it requires MassDEP's approval before EPA can begin processing the NOI. If you have not already submitted the NOI to MassDEP, Jennifer Wood at MassDEP (Jennifer.wood@state.ma.us or 617-654-6536) should be able to help you with the process.

Best,
Michelle

Michelle Vuto
Stormwater & Construction Permits
U.S. EPA Region 1
5 Post Office Square (06-4)
Boston, MA 02109-3912
617-918-1222

From: Alex Patterson <apatterson@essgroup.com>
Sent: Monday, September 16, 2019 11:42 AM
To: GeneralPermit, DeWatering <GeneralPermit.Dewatering@epa.gov>
Subject: Hatherly Country Club DGP Application

Hello,

Please see the attached application for a NPDES DGP for the Hatherly Country Club in Scituate, MA. Do not hesitate to contact me if you have questions or need additional information.

Best,

Alex

Alexander H. Patterson | Project Scientist
ESS Group, Inc.
10 Hemingway Drive, 2nd Floor, East Providence, RI 02915 | p 401.330.1233

E-news | LinkedIn | Twitter | Instagram | www.essgroup.com

MassDEP
Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

William Ohrenberger
Hatherly Country Club
663 Hatherly Road
P.O. Box 449
Scituate, MA 02066

September 30, 2019

RE: Dewatering General Permit- MassDEP Approval for Discharge to Class SA Waters
663 Hatherly Road, Scituate
MassDEP Transmittal No. X284369

Dear Mr. Ohrenberger,

The Massachusetts Department of Environmental Protection ("MassDEP") received a Dewatering General Permit ("DGP") Notice of Intent ("NOI") prepared by ESS Group on behalf of Hatherly Country Club requesting discharge of untreated surface water from a man-made pond on the Hatherly Country Club property while the pond is temporarily dewatered in order to expand its capacity. The DGP for the Commonwealth of Massachusetts, jointly signed by EPA and MassDEP on 3/26/15, requires review and approval by MassDEP for proposed dewatering discharges to Class A and SA Waters. The proposed activity involves approximately 3-months of dewatering with discharge to Musquashcut Brook. This location, according to 314 CMR 4.06, is categorized as a Class SA waters.

The application was administratively complete on 9/25/19. In review of the information included in the NOI, the proposed discharge appears to meet the requirements of the DGP and Massachusetts Surface Water Quality Standards, 314 CMR 4.00. Therefore, MassDEP approves this application.

According to the NOI, source water from the pond will be pumped using a submersible dewatering pump and discharged at an estimated average monthly flow rate of 215,000 gpd (maximum daily flow rate of 430,000 gpd). Both the dewatering pump inlet and the dewatering pump outlet will be covered with a filter sock to control the flow of total suspended solids (TSS) to the brook.

In accordance with the DGP, grab samples are to be collected and results reported according to EPA and as detailed in the permit.

Please include this approval in the NOI that you submit to EPA in order to proceed with review of the authorization to discharge under the 2015 DGP.

If you have any questions or require any additional information, please contact Jennifer Wood at 617-654-6536 or jennifer.wood@mass.gov .

Sincerely,

Susannah King
NPDES Section Chief
Bureau of Water Resources

Cc: Michelle Vuto, EPA (via e-mail)
Alexander Patterson, ESS Group, Inc. (via e-mail)
Amy Walkey, Scituate Conservation Commission (via e-mail)