

Notice of Intent

4/15/2012

William P Davis Excavation LLC
PO Box 758
Hampton, NH 03843
603.944.5844
Will@WPDavisExcavation.com

To whom it may concern;

This notice of intent is being submitted for coverage under the General Dewatering Permit for construction activities to take place at the North Hampton State Beach. This is a state project at a Dept. of Resource and Economic Development park that will include the reconstruction of existing restroom facilities. The NOI is being submitted as it is anticipated that groundwater will need to be discharged from excavations subsidiary to the project.

Signed: Will Davis, Manager

Manager, William P. Davis Excavation LLC

II. Suggested Notice of Intent (NOI) Form

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

a) Name of facility: North Hampton State Beach	Mailing Address for the Facility: 172 Pembroke Road, PO Box 1856 Concord, NH 03302	
b) Location Address of the Facility (if different from mailing address): Route 1A North Hampton, NH 03862	Facility Location longitude: 42.955 latitude: -70.781	Type of Business: Parks & Recreation Facility SIC codes: 7999
c) Name of facility owner: Dept. Resource & Economic Development Owner's email: NHPARKS@DRFED.STATE.NH.US Owner's Tel #: 603.271.2411 Owner's Fax #: 603.271.2629 Address of owner (if different from facility address)		
Owner is (check one): 1. Federal ☐ 2. State ☒ 3. Tribal ☐ 4. Private ☐ 5. Other ☐ (Describe) Legal name of Operator, if not owner: _____ Operator Contact Name: DL KING & ASSOCIATES (DEAN KING) Operator Tel Number: 603.883.5880 Fax Number: 603.883.5061 Operator's email: AKING@32131@AOL.COM Operator Address (if different from owner): 27 TANGLEWOOD DR NASHUA, NH 03062		
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 discharge" as defined by 40 CFR Section 122.22? 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: Atlantic Ocean Freshwater: Marine Water: X
State Water Quality Classification:
- 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 1
For each outfall:
- d) Estimate the maximum daily and average monthly flow of the discharge (in gallons per day – GPD). Max Daily Flow 200,000 GPD
Average Monthly Flow 100 K GPD
- e) What is the maximum and minimum monthly pH of the discharge (in s.u.)? Max pH 8.2 Min pH 7.9
- 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? 2 Twenty thousand Gallon Frac Tanks.
- 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) P
If (P), number of days or months per year of the discharge 5 D and the specific months of discharge June 2012;
If (I), number of days/year there is a discharge
Is the discharge temporary? Yes ✓ No
If yes, approximate start date of dewatering June approximate end date of dewatering June
- 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 LC₅₀ 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 Appendices III and IV. In addition, respond to the following questions.

- a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes _____ No ✓
- b) Has any consultation with the federal services been completed? Yes _____ No _____
- c) Is consultation underway? Yes _____ No _____
- d) What were the results of the consultation with the U.S. Fish and Wildlife Service and/or NOAA Fisheries Service (check one): a "no jeopardy" opinion _____ or written concurrence _____ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat.
- e) Which of the five eligibility criteria listed in Appendix 2, Section B (A,B,C,D,or E) have you met? A
- f) Please attach a copy of the most current federal listing of endangered and threatened species, found at USF&W website.

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

- a) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? Yes _____ No ✓
- 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 requirements listed in Appendix 3, Section C (1,2 or 3) have you met? 1

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: *North Hampton State Beach Redevelopment*

Operator signature: 

Title: *Vice President*

Date: *5/11/12*

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.

DEWATERING PLAN

FOR

**North Hampton State Beach Redevelopment Project
Route 1a, North Hampton, NH**

Owner:

**Thomas C. Mansfield
Dept. of Resources & Economic Development
172 Pembroke Road
Concord, NH 03301**

General Contractor:

**D.L. King & Associates, Inc.
27 Tanglewood Dr.
Nashua, NH 03062**

Prepared by:

**A Dean King
D.L. King & Associates, Inc.
27 Tanglewood Drive
Nashua, NH 03062
(603) 883-5880**

General Overview:

The intent of the dewatering operations on this site is to lower both the hydrostatic pressure and the groundwater levels to at least two feet below the lowest excavation levels. The subsurface material in this area of excavation consists primarily of sand and some silt above the bedrock. Bedrock is at approximately 15' below grade and groundwater is approximately 7' below grade. This information is based on the Geotechnical report furnished on January 25, 2012 by S.W. Cole Engineering, Inc.

The groundwater level will be lowered utilizing a wick point system. This will be completed utilizing a series of extraction wells. The water will be then be pumped into frac tanks, filtered and then discharged into the rip rap on the other side of the seawall. The dewatering operations will be started approximately 6 hours prior to beginning excavation and should be limited to no more than 3 working days.

Extraction Wells:

The Extraction wells shall be constructed around the area of excavation and spaced approximately 3' apart. Each wick point well will be installed using jetted trackpunch installation methods and extend approximately 15' below grade. Each well will be 12' in length with a 3' screened head. Every point will discharge into the 6" common header pipe which will be pumped simultaneously with a 6" DV-150 Diesel Pump. The wells will form a U shape around the excavation area leaving a 12' open area on the Ocean Boulevard side for equipment access. See Attached sketch for system layout.

The wells shall be installed to a depth determined onsite (approx 12' - 15') and shall produce a 3' cone of depression. The suction hose consists of a 6" rubber suction hose.

Pumps:

A 6" VP-150 Diesel Pump will be used and is capable of pumping 2250 GPM and up to 160' of head lift. The pump will be installed as close to the extraction wells as possible to ensure a good head pressure. The effluent of the pump will be placed directly into the onsite "Frac" tanks.

Frac Tanks:

At least two 21,000 gallon frac tanks will be placed onsite. The frac tanks will be placed along the seawall and be used in series. These frac tanks will primarily be used to slow the flow of water to allow for the settling of suspended particles. The water will be drained from the middle manifold, halfway up the tank, to act as a weir to help reduce

sediment and pumped into the second frac tank. The water from the second frac tank will be drained from the lower manifold approximately 4' above the bottom of the tank. Once silt/sand levels begin to impede performance of the tanks they will be cleaned and silt/sand shall be disposed of accordingly.

Filtering:

A fifty micron "Bag" filter Model # BF1000 will be utilized for the filtering operations if the effluent from the 2 frac tanks still has suspended particles. The filtering capacity of this filter is 1,000 GPM. Filters are usually changed twice a day but this will depend on the amount of suspended particles. The filter medium will be changed as necessary to ensure optimum performance of the filtering system. Once the water has passed thru the bag filter, it should be free of any suspended materials.

Discharge:

After leaving the system, the water will then be discharged into the rip rap on the ocean side of the seawall. Silt fencing and hay bales will be installed on the beach side of the rip rap in case there is any overflow of the effluent water. The effluent will be continuously monitored to ensure there are no sediments or contaminants.

Water Sampling:

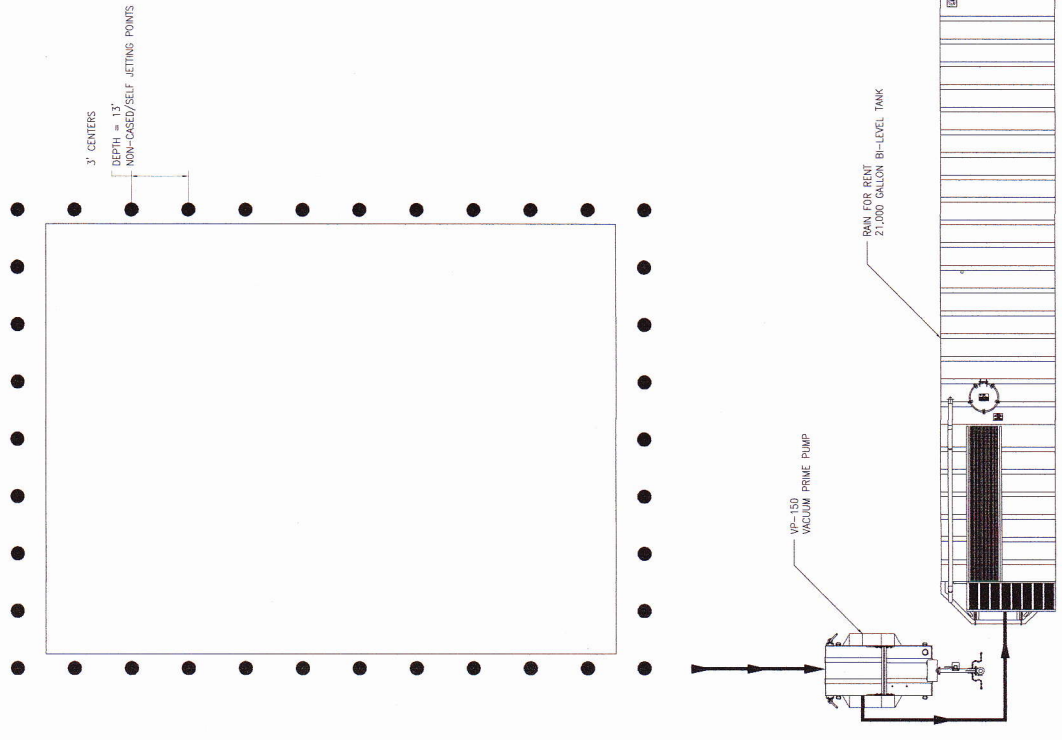
Water sampling shall be conducted at least once a week in accordance with the EPAs Dewatering General Permit (DGP), however because we expect the dewatering to take approximately 5 days, 3 samples will be taken in accordance with the DGP. Sampling shall be for the parameters shown on the attached Table 1. Because we are not able to sample the ground water until the system is in place, we will immediately take a sample once the wells are installed and will not start up the system until the sampling results are received and reviewed. After the system is started up, 2 more samples will be taken in accordance with parameters in Table 1. We will also continuously monitor the effluent for any signs of contaminants. Should any contaminants be present in any of the samples, dewatering operations will be stopped and the engineer, owner and the NHDES will immediately be notified (see Table 1 for DGP sampling criteria).

REVNO.	DESCRIPTION	PREVIOUS DWG	BY	DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

ITEM	QTY.	REF.	DESCRIPTION
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
32			
33			
34			
35			
36			
37			
38			
39			
40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			
55			
56			
57			
58			
59			
60			
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
87			
88			
89			
90			
91			
92			
93			
94			
95			
96			
97			
98			
99			
100			

NOTE:

- THIS DRAWING IS INTENDED AS A PRELIMINARY SITE LAYOUT ONLY. RAIN FOR RENT ENGINEERING HAS NOT REVIEWED THIS DESIGN OR PERFORMED CALCULATIONS FOR THIS PROJECT. THE CUSTOMER IS SOLELY RESPONSIBLE FOR ALL PERFORMANCE, SAFETY, AND OPERATION OF THIS SYSTEM.



CONFIDENTIAL

PLAN VIEW

054-459951

RAIN FOR RENT
USA, 911

01-5673-02-01

RAIN FOR RENT ENGINEERING, INC. 2004 STATE ROAD, P.O. BOX 2248 BAKERSFIELD, CA 93303

Rain For Rent
Engineering

WILLIAM P. DAVIS EXCAVATION

WELL POINT
LAYOUT

NH BEACH HOUSE

DATE	5/10/2012
SCALE	NOT TO SCALE
DRAWN BY	M. GRUNDVIG
CHECKED BY	M. GRUNDVIG
DESIGNED BY	M. GRUNDVIG
APPROVED BY	C. LUNDEEN



1. THE PREPARED WORK IS INTENDED TO BE PERFORMED IN TWO PHASES. THE FIRST PHASE WILL BE THE CONSTRUCTION OF THE CONDUIT AND PAVING AREA TO THE STATE BEACH, ENSURING BATH HOUSE AND PARKING AREA TO BE FULLY OPERATIONAL AND DESIGNED FOR THE SECOND PHASE. THE SECOND PHASE WILL BE THE WORK SHALL BE COMPLETED TO A CONDITION ACCEPTABLE TO THE NEW HAMPSHIRE BUREAU OF PUBLIC WORKS' (CONTRACT ADMINISTRATION), THAT WILL FACILITATE THE CONSTRUCTION OF THE BATH HOUSE AND PARKING AREA. THE CONTRACTOR SHALL CONSTRUCT THE CONDUIT, CONSTRUCTION SCHEDULE, AND PHASING TIMELINES WITH THE CONTRACT ADMINISTRATOR.
2. THE CONTRACTOR CONSTRUCTING THE SANITARY SEWER IMPROVEMENTS SHALL HAVE A TOWN OF RYE SIEVER INSTALLER LICENSE. SIEVER SHALL HAVE PREVIOUS EXPERIENCE IN MAKING AN EXAMPLE OF A SIMILAR SEWER FOREMAN CONNECTION THAT THEY HAVE PREVIOUSLY PERFORMED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE OWNER AND ENGINEER OF ALL MATERIALS TO BE USED IN THE CONSTRUCTION OF THE SANITARY SEWER MAIN, FOR APPROVAL PRIOR TO ORDERING MATERIALS. THE SHOP DRAWINGS SHALL INCLUDE SCHEMATIC DRAININGS SHOWING THE LOCATION OF ALL FITTINGS (VALVES, BENDS, ETC.) INDICATING THE TYPES AND SIZES.
3. THE CONTRACTOR SHALL PREPARE AND SUBMIT A CONTINGENCY PLAN TO THE TOWN OF RYE. THE PLAN SHALL BE REVIEWED AND APPROVAL THAT DEMONSTRATES PROCEDURES AND MATERIALS TO BE USED FOR REPAIR AND SYSTEM MANAGEMENT IN THE EVENT THAT THERE IS ANY DAMAGE TO THE EXISTING MUNICIPAL SANITARY SEWER MAIN. THE CONTRACTOR SHALL SUBMIT THE PLAN TO THE CONTRACTOR SHALL NOTIFY THE TOWN OF RYE SEWER DEPARTMENT PRIOR TO MAKING THE CONNECTION TO THE EXISTING FOREMAN MAIN AND HAVE APPROPRIATE PERSONNEL, MATERIALS AND EQUIPMENT ON SITE TO IMPLEMENT THE CONTINGENCY PLAN.
4. REMOVE AND PROPERLY DISPOSE OF EXISTING SEPTIC SYSTEM COMPONENTS. THE CONTRACTOR SHALL REMOVE ALL EXISTING SEPTIC SYSTEM COMPONENTS HAVE NOT BEEN FIELD VERIFIED.
5. STOCKPILED SOIL MATERIAL SHALL HAVE COMPOST MESH TUBES OR OTHER ADEQUATE EROSION CONTROL PROTECTION PLACED AROUND THE PERIMETER TO PREVENT EROSION AND SEDIMENTATION.



Species Reports

Environmental Conservation Online System

(<http://www.fws.gov>)

Listings and occurrences for New Hampshire

Notes:

- This report shows the listed species associated in some way with this state.
- This list does not include experimental populations and similarity of appearance listings.
- This list includes non-nesting sea turtles and whales in State/Territory coastal waters.
- This list includes species or populations under the sole jurisdiction of the National Marine Fisheries Service.
- Click on the highlighted scientific names below to view a Species Profile for each listing.

Summary of Animals listings

Animal species listed in this state and that occur in this state (6 species)

Status (javascript:launch('/tess_public/html/db-status.html');)	Species
E	Butterfly, Karner blue (Lycaeides melissa samuelis (/speciesProfile/profile/speciesProfile.action?scode=I00F))
T	Lynx, Canada (Contiguous U.S. DPS) (Lynx canadensis (/speciesProfile/profile/speciesProfile.action?scode=A073))
T	Plover, piping except Great Lakes watershed (Charadrius melodus (/speciesProfile/profile/speciesProfile.action?scode=B079))
E	Sea turtle, leatherback (Dermochelys coriacea (/speciesProfile/profile/speciesProfile.action?scode=C00F))
E	Wedgemussel, dwarf (Alasmidonta heterodon (/speciesProfile/profile/speciesProfile.action?scode=F029))
E	Whale, finback (Balaenoptera physalus (/speciesProfile/profile/speciesProfile.action?scode=A02O))

Animal species listed in this state that do not occur in this state (4 species)

Status (javascript:launch('/tess_public/html/db-status.html');)	Species
E	Beetle, American burying (Nicrophorus americanus (/speciesProfile/profile/speciesProfile.action?scode=I028))
E	Puma (=cougar), eastern (Puma (=Felis) concolor couguar (/speciesProfile/profile/speciesProfile.action?scode=A046))
T	Tiger beetle, Puritan (Cicindela puritana (/speciesProfile/profile/speciesProfile.action?scode=I02D))
F	Wolf, gray U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, KS, KY, LA, MA, MD, ME, MO, MS, NC, NE, NH, NJ, NV, NY, OK, PA, RI, SC, TN, VA, VT and

Status (javascript:launch('/tess_public/html/db-status.html');)	Species
	(Canis lupus (/speciesProfile/profile/speciesProfile.action?scode=A00D))

Animal listed species occurring in this state that are not listed in this state (4 species)

Status (javascript:launch('/tess_public/html/db-status.html');)	Species
T	Sea turtle, green except where endangered (Chelonia mydas (/speciesProfile/profile/speciesProfile.action?scode=C00S))
E	Sea turtle, hawksbill (Eretmochelys imbricata (/speciesProfile/profile/speciesProfile.action?scode=C00E))
T	Sea turtle, loggerhead (Caretta caretta (/speciesProfile/profile/speciesProfile.action?scode=C00U))
E	Tern, roseate northeast U.S. nesting pop. (Sterna dougallii dougallii (/speciesProfile/profile/speciesProfile.action?scode=B07O))

Summary of Plant listings

Plant species listed in this state and that occur in this state (3 species)

Status (javascript:launch('/tess_public/html/db-status.html');)	Species
E	Bulrush, Northeastern (Scirpus ancistrochaetus (/speciesProfile/profile/speciesProfile.action?scode=Q21H))
E	Milk-vetch, Jesup's (Astragalus robbinsii var. jesupi (/speciesProfile/profile/speciesProfile.action?scode=Q1TC))
T	Pogonia, small whorled (Isotria medeoloides (/speciesProfile/profile/speciesProfile.action?scode=Q1XL))

Last updated: May 9, 2012

[ECOS Home \(/ecos/indexPublic.do\)](#) | [Contact Us \(/ecos/helpdesk.do?version=TESS_PUBLIC-1_1_11\)](#)