



The State of New Hampshire
Department of Environmental Services



Robert R. Scott, Commissioner

July 25, 2018

Jolene Cochrane
Transfer Station Superintendent
Hopkinton/Webster Municipal Solid Waste Facility
491 East Penacook Road
Hopkinton, NH 03229

Re: Septage Facility Permit Number SEF-00-001

Dear Ms. Cochrane:

On July 11, 2018, the New Hampshire Department of Environmental Services (NHDES) Residuals Management Section staff conducted an inspection of the lagoon facility issued Septage Facility Permit Number SEF-00-001, located at the Hopkinton/Webster Municipal Solid Waste Facility, 491 E. Penacook Rd, Contoocook, NH. The purpose of this inspection was to observe the operations and maintenance of the facilities septage lagoons, and to confirm compliance with the New Hampshire Code of Administrative Rules, Chapter Env-Wq 1600, Septage Management, Part Env-Wq 1609, Facility Permit Requirements.

The septage lagoons are reached by following the access road that passes to the right of the Hopkinton/Webster Transfer Station & Recycling Center, past the capped landfill. Sufficient access controls are present to prevent someone from entering the site without permission. It was observed that a fence was present around the perimeter of the lagoons. The freeboard levels in all lagoons were well below the two foot minimum. All lagoons are bermed to divert surface drainage and to retain any storm water preventing any overflows in accordance with Env-Wq 1609.09 Facility Standards, (e).

Signs closest to the gate conform to Env-Wq 1609.09 Facility Standards, (d) All facilities shall:

(1) Be posted with signs which:

- a. Contain the name and telephone number of the operator;
- b. Contain the name and address of the owner or lessee of the property;
- c. Shall be posted at gates, bars, and commonly used entrances; and
- d. State: "Septage Treatment Facility" printed with block letters not less than 2 inches in height.

The ground around the lagoons was clean of any spilled septage or garbage. The front end loader is used to contain and clean-up any the septage material spilled, to minimize the environmental impact. Maintenance and cleanliness of this facility aids in vector attraction reduction. There was some grass vegetation growing on the side slopes of the lagoon; this is allowable and helps to stabilize the sidewalls. Vegetation consisting of woody brush and trees are not allowed the sidewalls. The existing, well established trees surrounding the lagoons act an odor buffer, and should remain in place. It is recommended that the grass be kept mowed around the fence line to help minimize vector attraction to comply with Env-Wq 1609.09 Facility Standards, (d) All facilities shall: (4) Be maintained in a clean and orderly fashion to minimize attraction of vectors...

Monitoring wells were observed around the perimeter of the lagoons, and lockable caps were in place to prevent tampering.

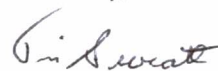
Septage receiving records are maintained at the transfer station office, and were inspected at this time. In accordance with the New Hampshire Code of Administrative Rules, Chapter Env-Wq 1600, Septage Management, Part Env-Wq 1609, Facility Permit Requirements, section Env-Wq 1605.11 Record Keeping and Env-Wq 1605.12 Reporting. Each hauler shall provide to the operator of the site, facility, transfer/storage area, or wastewater treatment facility to which the septage is delivered:

- (1) The date received or picked up;
- (2) The name and address of the client(s) from whom the septage was received;
- (3) The volume of the septage transported, in gallons;
- (4) The site, facility, transfer/storage area, or wastewater treatment facility to which the load was discharged; and
- (5) The date on which the load was discharged.

The Hopkinton/Webster MSW Septage Facility does not have a designated septage receiving slip, using the slips given to them by the septage hauler. A review of the septage receiving records was performed at the time of inspection. A few of the slips examined were not fully completed by the hauler (missing information; usually telephone number) but no one hauler was consistently omitting the required information.

Based on the results of this inspection of the lagoon activities (please see enclosed Facility Inspection Report # 1827), the Town of Hopkinton is meeting the septage lagoon facility management requirements of the New Hampshire Code of Administrative Rules, Chapter Env-Wq 1600, Septage Management, Part Env-Wq 1609, Facility Permit Requirements. Thank you for your cooperation in this matter. If you have questions, please contact me via e-mail at Timothy.Sweatt@des.nh.gov or call (603) 271-2492.

Sincerely,



Timothy D. Sweatt
Residuals Management Section
Wastewater Engineering Bureau

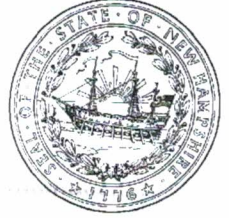
Enclosure

cc: file
Raymond T. Gordon, Administrator, RMS Supervisor
Thomas S. Bobowski, P.E., Nobis Engineering Inc
Neil Cass, Town of Hopkinton Administrator/Health Officer

State of New Hampshire



DEPARTMENT OF ENVIRONMENTAL SERVICES
 WASTEWATER ENGINEERING BUREAU
 RESIDUALS MANAGEMENT SECTION
 29 HAZEN DRIVE, P.O. BOX 95
 CONCORD, NEW HAMPSHIRE 03302-0095



FACILITY/SITE INSPECTION REPORT

Inspection Report #: 1827

Type (Sludge/Septage): Septage **Name/Location:** Hopkinton septage lagoon facility
 Hopkinton-Webster MSW Facility,
 491 E. Penacook Rd, Contoocook, NH
Jolene Cochrane, Transfer Station Superintendent **Phone:** 746-3810 **Email:** greentowns@tds.net

Permit No: SEF-00-001

Date of Inspection: 7/11/18 **Inspector:** Tim Sweatt

Person(s) On-Site: Hopkinton/Webster Municipal Solid Waste Facility Transfer Station Superintendent / certified solid waste senior principal operator Jolene Cochrane (#2741); Christina Balassone, facility operator, Tammy Junkins, Katherine Alcott, Shanda MacMaster, facility attendants (PT)

Evaluation Criteria: (Env-Wq Rule No.)	Satisfactory	Unsatisfactory NA (Not Applicable)	
A) Overall operation – facility (808.08, 1608.08)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A1) Overall operation - site (806.08/09, 1607.08/09/10)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
B) Access controls - facility (808.06(c), 1608.05(b)(3))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B1) Signs (808.08(c)(2), 1608.08(d)(1))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
B2) Gates (808.08(c)(3), 1608.08(d)(2))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
C) Access controls - site (806.06(b)(4), 1607.05(b)(4))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C1) Signs (803.02(c), 1603.02(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D) Perimeter fencing lagoon (808.08(d)(1), 1608.08(e)(1))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D1) Two (2) feet Freeboard (808.08(d)(2), 1608.08(e)(2))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
D2) Bermed to divert surface drainage (808.08(d)(3), 1608.08(e)(3))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluation Criteria: (Env-Wq Rule No.)	Satisfactory	Unsatisfactory	NA (Not Applicable)
E) Holding tank registration - septage (1606)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F) Groundwater monitoring wells (809, 1609)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G) Pathogen / Vector reduction - facility (808.07(f), 1608.07(f))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
G1) Pathogen / Vector reduction - site (806.07(d), 1607.07(g))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
H) Sludge spreading (806.08)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
I) Septage spreading (1607.08)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
J) Sludge stockpiling (806.09)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
K) Record keeping - facility (808.11, 1608.11)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K1) Record keeping - site (806.11, 1607.12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
L) Soil profile characteristics - facility (808.10(c), 1608.10(c))	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
L1) Soil profile characteristics - site (806.10(c), 1607.11(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M) Septage Holding Tank watertight (1606.04(a))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M1) Piping, valves, connections watertight accessible and cleanable (1606.04(b))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
M2) Inlet/outlet connections proper (1606.04(c))	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
N) Facility/Site supervision	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
O) Maintenance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
P) Delivery of material	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Evaluation Criteria:
(Env-Wq Rule No.)**

Satisfactory

Unsatisfactory

NA (Not Applicable)

Buffer Distances

Land Application – Septage (1607.09(a))

D) Surface Waters – 250(125) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D1) Non-tidal Drainage Ditch – 33 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D2) Community Wells – 400 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D3) Other Wells – 300 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D4) Surface Drinking Water Source – 500 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D5) Property Lines – 50 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D6) Public Roads – 25 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D7) Federal Interstate Highway – 10 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D8) On-site Occupied Dwelling – 100 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D9) Bedrock / Restrictive Layer – 2 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D10) Groundwater Depth – 4(2) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Facility – Septage (1608.08(f))

E) Surface Waters – 250(125) feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E1) Non-tidal Drainage Ditch – 100 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E2) Wells – 500 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

PWS ID: 1193030, Deer Meadows Mobile Home Park, David Price Jr., owner/operator, >500 ft

E3) Surface Drinking Water Source – 500 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E4) Property Lines – 500 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E5) Occupied Dwelling – 500 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E6) Bedrock / Restrictive Layer – 4 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
E7) Groundwater Depth – 4 feet	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Storage – Septage (1608.08(h))

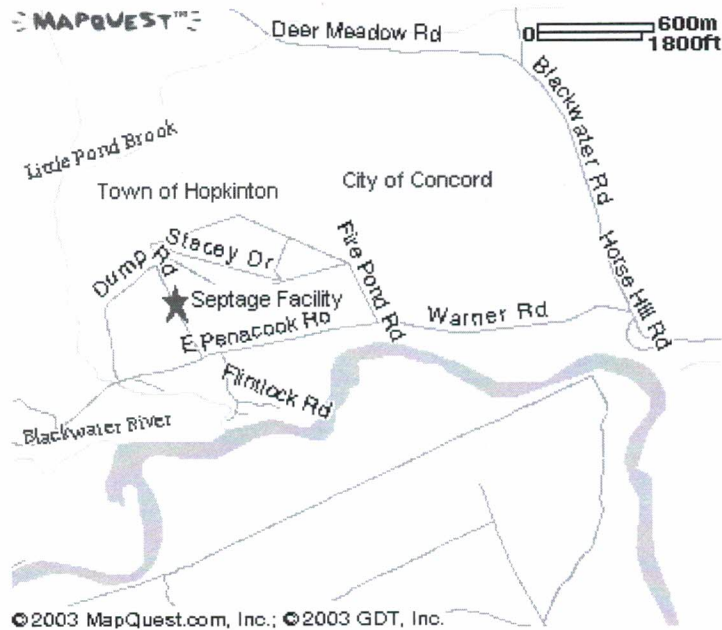
F) Surface Waters – 125 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F1) Non-tidal Drainage Ditch – 100 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F2) Wells – 500(300) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F3) Property Lines – 500(200) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F4) Occupied Dwelling – 500(200) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F5) Bedrock / Restrictive Layer – 4 feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
F6) Groundwater Depth – 4(2) feet	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Driving directions from Concord: Start at 29 Hazen Dr, Concord going toward East Side Dr - go 0.3 mi, turn Left on East Side Dr (RT-132) - go 0.2 mi. Turn Right to take ramp onto I-393 W toward US-4 W/US-202 W - go 1.7 mi, continue on US-4 W - go 0.4 mi, turn Right on Bouton St (US-3) - go 0.2 mi, continue to follow US-3 - go 3.5 mi. Turn Left on Bog Rd - go 2.2 mi, bear Right on Horse Hill Rd - go 1.6 mi, bear Left on Warner Rd - go 0.8 mi. Continue on E Penacook Rd - go 0.9 mi, arrive at 491 E Penacook Rd, Contoocook, on the Right. *Hopkinton/Webster MSW Transfer Station*

Narrative:

On July 11, 2018 at approximately 9:00 A.M., Tim Sweatt of the Residuals Management Section (RMS) arrived at the Hopkinton / Webster Septage Facility to perform an announced routine inspection. Transfer station superintendent / certified solid waste facility principal operator Jolene Cochrane was on site at the time of the inspection, and supplied NHDES with the septage hauler records.

Map #1: Location of Hopkinton Septage Facility.



Records are maintained in the office at the Hopkinton-Webster Transfer Station /Recycling Center. Septage trucks using this facility are weighed on the scale, and the amount and origin of their load is recorded. Slips were inspected at this time. Hopkinton-Webster MSW does not have a designated septage receiving slip, using the slips given to them by the septage hauler. This ranges from pre-printed copies of haulers call slips to hand written slips of paper. A few of the slips examined were not fully completed by the hauler (missing information; usually telephone number) but no one hauler was consistently deficient in omitting the required information. The use of the facility is limited to domestic septage only generated by residents of Hopkinton & Webster. Current users of the lagoons are American Guardian Septic Service,

Henniker, NH; Best Septic Service, Loudon, NH; Bradford Septic Service, Bradford, NH; Henniker Septic Service, Henniker, NH (majority of septage waste delivered); Robert T. Lake Inc, Webster, NH; and St Onge Septic Tank Service, Goffstown, NH. All Clear Septic (now Wind River), Dave's Septic Service, New London Septic, Peterborough Septic, and Rowell's Sewer & Drain are registered with the Hopkinton/Webster lagoon facility, but have not brought any septage waste this year.

The septage lagoons can be reached by following the access road that passes to the right of the Hopkinton / Webster Transfer Station & Recycling Center, past the capped landfill. Sufficient access controls are present to prevent someone from entering the site without permission. These access controls consisted of an entrance to the facility with signs at the entrance to the site that alerted potential trespassers to the presence of septage lagoons, as well as a gate and lock at the beginning of the access road to the transfer station/recycling center and capped landfill site. Transfer station operators closely monitor any vehicles that enter this area. Surrounding the perimeter of the lagoon facility is a wire fence, which adequately fulfilled the requirements for fencing and helped to fulfill vector attraction requirements. Signs (red & white background) are posted around the perimeter. Signs closest to the gate conform to Env-Wq 1609.09 Facility Standards (d), All facilities shall:

- (1) Be posted with signs which:
 - a. Contain the name and telephone number of the operator;
 - b. Contain the name and address of the owner or lessee of the property;
 - c. Shall be posted at gates, bars, and commonly used entrances; and
 - d. State: "Septage Treatment Facility" printed with block letters not less than 2 inches in height.

All setbacks to the lagoons appeared satisfactory, meeting the requirements in Table 1609-1 Setback Distances for Septage Facilities. There is a community well (PWS ID: 1193030, Deer Meadows Mobile Home Park, David Price Jr., owner/operator) located to the north on the abutting property, drinking water supply within 1000', but greater than the required 500 feet minimum distance.

All lagoons are bermed to divert surface drainage and to retain any storm water runoff preventing any overflows. Septage discharge is alternated between lagoons. The lagoon currently used for septage receiving (South #5) has adequate freeboard level, meeting the 2 foot minimum requirement as do all off-line lagoons to allow for storm/rain water events. North West lagoon has been taken off - line. There are two lagoons on the East side, #1, & #2. Lagoon cells have been taken out of service and are being allowed to dry out. Other former lagoons have been excavated and backfilled.

There is a biomat or crust with vegetative material growing on top that has built up on the off-line lagoons. This is effectively acting as a natural floating cover for the lagoon, and helps to keep odors at a minimum. No trees or deep-rooted vegetation should be allowed in the lagoons or along the banks. The existing, well established trees surrounding the lagoons act as a natural woodland buffer helping to deter odor, and should remain in place. There is a fair amount of brush, shrubs and small trees growing along the fence line. Ms. Cochrane said they have been in contact with a local company, Chuck Rose, Inc logging and forestry, to clear cut around the lagoons and fence line. It was observed that a section of the fence (north east corner) was down; it appears that someone rode thru on a four wheeler all-terrain vehicle. This section of the fence should be repaired.

Solids are removed from the lagoons periodically, and beneficently reused on the property within the groundwater management zone.

There are groundwater monitoring wells located around both the septage lagoons and the capped landfill. The groundwater monitoring wells closest to the lagoons observed had a lock in place during the inspection.

The ground around the lagoons was clean of any spilled septage or garbage. Maintenance and cleanliness of this facility aids in vector attraction reduction. Facility personnel periodically checks when a hauler is discharging into the lagoons in order to make sure that they keep the area clean. If any material is spilled, the front end loader is used to contain and clean-up the septage, and to minimize the environmental impact. A trash receptacle has been placed for the haulers use to help keep the area free from litter.

In conclusion, it is determined that the Hopkinton/Webster Septage Facility is operating in a satisfactory manner and meeting the requirements defined by Env-Wq 1609 Facility Standards.

Pictures are located in file:

S:\WD-Wastewater\Residuals\Sludge\2018 site_facility inspections\pictures\Hopkinton lagoons 071118

Fig #1 GIS view of Hopkinton/Webster Septage lagoon facility



Map Scale = 1 : 9383 (1" = 782 feet or 0.1 miles)

Fig #2 Satellite view of Hopkinton/Webster septage lagoon facility

