

Agenda Item 6 – Mossberg Draft Permit Renewal



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May 15, 2020

North Haven WPCF
122 Universal Drive North
North Haven, CT 06473
SENT VIA ELECTRONIC MAIL

Attn: Mark Barrows, Chief Wastewater Treatment Plant Operator (mark.barrows@veoliawaterna.com)

Re: O.F. Mossberg & Sons, Inc.
Application No. 201507677
Permit No. SP0000372

Dear Mr. Barrows:

On October 8, 2015 an application from O.F. Mossberg & Sons, Inc. ("Applicant") was received by the Connecticut Department of Energy and Environmental Protection ("DEEP") regarding the reissuance of Permit No. SP0000372, attached hereto. The current permit contains conditions and effluent limitations which conform to all applicable pretreatment standards. A Notice of Sufficiency was issued to the Applicant on December 4, 2015, beginning the technical review process.

All discharges must comply, at a minimum, with the prohibitions set forth in Title 40, Section 403.5 of the Code of Federal Regulations and Section 22a-430-4(t) of the Regulations of Connecticut State Agencies ("RCSA"), and must otherwise be controlled in accordance with federal and state law to prevent a pollutant or substance entering a local Publicly Owned Treatment Works ("POTW") from causing or contributing to: (1) pass through to the receiving waters; (2) interference with or adverse effect upon the operation of the POTW or its sludge handling or disposal; (3) POTW worker health and safety concerns; or (4) noncompliance with the POTW's NPDES permit. State issued pretreatment permits control such discharges by including effluent limitations and other terms and conditions based on the most protective of applicable federal and state categorical standards, local ordinance requirements developed in accordance with EPA methodologies, and any case-by-case determination that finds that a more stringent or additional effluent limitation, term or condition is specifically needed.

At this time the Department requests North Haven WPCF to assess pollutants of concern that have been, or can be, proven to have a negative impact on receiving waters, the POTW's operations or its sludge handling and disposal, worker health or safety, or ability to comply with Permit No. CT0100404. A report containing the Applicant's effluent values over the previous five years, along with the previously issued permit, has been attached to facilitate your review and assessment. The Department encourages the development of local effluent limitations using EPA methodologies to further avoid potential noncompliance with the POTW's NPDES permit. If, within 30 days, the POTW authority does not respond, or the POTW authority sends a response indicating that there are presently no issues to address within the attached permit, the Department will continue the technical review process and the development of permit effluent limitations, terms and conditions as described above.

Upon request, permit applications can be made available via a scheduled meeting.

Sincerely,

Robin Jazxhi
DEEP/ Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division
79 Elm Street
Hartford, CT 06106
Email: robin.jazxhi@ct.gov
Phone: 860-424-3280

Attachments: Permit No. SP0000372
5-Year Report

cc: Lynn Sadosky, North Haven Director of Public Works (sadosky.lynn@northhaven-ct.gov)
Fred Augur, O.F. Mossberg & Sons, Inc., Plant Manager (faugur@mossberg.com)
Greg Maynard, O.F. Mossberg & Sons, Inc. Maintenance Manager (gmaynard@mossberg.com)
John Christian, GeoInsight, Inc., Consultant (jjchristian@geoinc.com)

PRETREATMENT PERMIT

issued to

Location Address:

O.F. Mossberg & Sons, Inc.
7 Grasso Avenue
North Haven, CT 06473

O.F. Mossberg & Sons, Inc.
7 Grasso Avenue
North Haven, CT 06473

Facility ID: 101-005

Permit ID: SP0000372

Permit Expires: April 12, 2016

SECTION 1: GENERAL PROVISIONS

- (A) This permit is reissued in accordance with section 22a-430 of Chapter 446k, Connecticut General Statutes ("CGS"), and Regulations of Connecticut State Agencies ("RCSA") adopted thereunder, as amended, and a modified Memorandum of Agreement (MOA) dated June 3, 1981, by the Administrator of the United States Environmental Protection Agency which authorizes the State of Connecticut to administer a Pretreatment Program pursuant to 40 CFR Part 403.
- (B) O.F. Mossberg & Sons, Inc., ("Permittee"), shall comply with all conditions of this permit including the following sections of the RCSA which have been adopted pursuant to section 22a-430 of the CGS and are hereby incorporated into this permit. Your attention is especially drawn to the notification requirements of subsection (i)(2), (i)(3), (j)(1), (j)(6), (j)(8), (j)(9)(C), (j)(11)(C), (D), (E), and (F), (k)(3) and (4) and (l)(2) of section 22a-430-3.

Section 22a-430-3 General Conditions

- (a) Definitions
- (b) General
- (c) Inspection and Entry
- (d) Effect of a Permit
- (e) Duty
- (f) Proper Operation and Maintenance
- (g) Sludge Disposal
- (h) Duty to Mitigate
- (i) Facility Modifications; Notification
- (j) Monitoring, Records and Reporting Requirements
- (k) Bypass
- (l) Conditions Applicable to POTWs
- (m) Effluent Limitation Violations (Upsets)
- (n) Enforcement
- (o) Resource Conservation
- (p) Spill Prevention and Control
- (q) Instrumentation, Alarms, Flow Recorders
- (r) Equalization

Section 22a-430-4 Procedures and Criteria

- (a) Duty to Apply
- (b) Duty to Reapply
- (c) Application Requirements
- (d) Preliminary Review
- (e) Tentative Determination
- (f) Draft Permits, Fact Sheets
- (g) Public Notice, Notice of Hearing
- (h) Public Comments
- (i) Final Determination
- (j) Public Hearings
- (k) Submission of Plans and Specifications. Approval.

- (l) Establishing Effluent Limitations and Conditions
 - (m) Case by Case Determinations
 - (n) Permit issuance or renewal
 - (o) Permit Transfer
 - (p) Permit revocation, denial or modification
 - (q) Variances
 - (r) Secondary Treatment Requirements
 - (s) Treatment Requirements for Metals and Cyanide
 - (t) Discharges to POTWs - Prohibitions
- (C) Violations of any of the terms, conditions, or limitations contained in this permit may subject the Permittee to enforcement action, including but not limited to, seeking penalties, injunctions and/or forfeitures pursuant to applicable sections of the CGS and RCSA. Specifically, civil penalties of up to twenty-five thousand dollars may be assessed per violation per day.
- (D) Any false statement in any information submitted pursuant to this permit may be punishable as a criminal offense under section 22a-438 or 22a-131a of the CGS or in accordance with section 22a-6, under section 53a-157b of the CGS.
- (E) The authorization to discharge under this permit may not be transferred without prior written approval of the Commissioner of Environmental Protection ("the Commissioner"). To request such approval, the Permittee and proposed transferee shall register such proposed transfer with the Commissioner at least 30 days prior to the transferee becoming legally responsible for creating or maintaining any discharge which is the subject of the permit transfer. Failure by the transferee to obtain the Commissioner's approval prior to commencing such discharge(s) may subject the transferee to enforcement action for discharging without a permit pursuant to applicable sections of the CGS and RCSA.
- (F) Nothing in this permit shall relieve the Permittee of other obligations under applicable federal, state and local law.
- (G) An annual fee shall be paid for each year this permit is in effect as set forth in section 22a-430-7 of the Regulations of Connecticut State Agencies.
- (H) This permitted discharge is consistent with the applicable goals and policies of the Connecticut Coastal Management Act (section 22a-92 of the Connecticut General Statutes).

SECTION 2: DEFINITIONS

- (A) The definitions of the terms used in this permit shall be the same as the definitions contained in section 22a-423 of the CGS and section 22a-430-3(a) and 22a-430-6 of the RCSA.
- (B) In addition to the above the following definitions shall apply to this permit:
- "----" in the limits column on the monitoring table means a limit is not specified but a value must be reported on the DMR.
- "Average Monthly Limit" means the maximum allowable "Average Monthly Concentration" as defined in section 22a-430-3(a) of the RCSA when expressed as a concentration (e.g. mg/l); otherwise, it means "Average Monthly Discharge Limitation" as defined in section 22a-430-3(a) of the RCSA.
- "Daily Concentration" means the concentration of a substance as measured in a daily composite sample, or the arithmetic average of all grab sample results defining a grab sample average.
- "Daily Quantity" means the quantity of waste generated during an operating day.
- "Instantaneous Limit" means the highest allowable concentration of a substance as measured by a grab sample, or the highest allowable measurement of a parameter as obtained through instantaneous monitoring.
- "Maximum Daily Limit" means the maximum allowable "Daily Concentration" (defined above) when expressed as a concentration (e.g. mg/l); otherwise, it means the maximum allowable "Daily Quantity" as defined above unless it is expressed as a flow quantity. If expressed as a flow quantity it means "Maximum Daily Flow" as defined in section 22a-430-3(a) of the RCSA.
- "NA" as a Monitoring Table abbreviation means "not applicable".

"NR" as a Monitoring Table abbreviation means "not required".

"Range During Sampling" or "RDS", as a sample type, means the maximum and minimum of all values recorded as a result of analyzing each grab sample of; 1) a Composite Sample, or 2) a Grab Sample Average. For those permittees with continuous monitoring and recording pH meters, Range During Sampling shall mean the maximum and minimum readings recorded with the continuous monitoring device during the Composite or Grab Sample Average sample collection.

"Range During Month" or "RDM", as a sample type, means the lowest and the highest values of all of the monitoring data for the reporting month.

"Semi-Annual" in the context of a sampling frequency, means the sample must be collected in the months of June and December.

"ug/l" means micrograms per liter.

SECTION 3: COMMISSIONER'S DECISION

- (A) The Commissioner has made a final determination and found that the continuance of the existing system to treat the discharge will protect the waters of the state from pollution. The Commissioner's decision is based on Application No. 200402714 for permit reissuance received on October 18, 2004 and the administrative record established in the processing of that application.
- (B) The Commissioner hereby authorizes the Permittee to discharge in accordance with the provisions of this permit, the above referenced application, and all approvals issued by the Commissioner or the Commissioner's authorized agent for the discharges and/or activities authorized by, or associated with, this permit.
- (C) The Commissioner reserves the right to make appropriate revisions to the permit in order to establish any appropriate effluent limitations, schedules of compliance, or other provisions that may be authorized under the Federal Clean Water Act or the Connecticut General Statutes or regulations adopted thereunder, as amended. The permit as modified or renewed under this paragraph may also contain any other requirements of the Federal Clean Water Act or Connecticut General Statutes or regulations adopted thereunder which are then applicable.

SECTION 4: EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

- (A) The discharges shall not exceed and shall otherwise conform to specific terms and conditions listed below. The discharge is restricted by, and shall be monitored in accordance with, the table below.

Table A

Monitoring Location: 1

Discharge Serial Number: 001-1

Wastewater Description: treated metal Finishing wastewaters and air compressor blowdown including tumbling and cleaning wastewaters

Monitoring Location Description: Final Effluent sump prior to discharge to sanitary sewer

Discharge is to: The Town of North Haven Water Pollution Control Facility

PARAMETER	UNITS	FLOW/TIME BASED MONITORING				INSTANTANEOUS MONITORING			
		Average Monthly Limit	Maximum Daily Limit	Sample/Reporting Frequency ²	Sample Type or Measurement to be reported	Instantaneous limit or required range	Sample/Reporting Frequency ²	Sample Type or measurement to be reported	
Flow, (Day of Sampling)	gpd	NA	55,000	weekly	total daily flow	NA	NR	NA	
Flow Rate, Average Daily ¹	gpd	36,000	NA	continuous/monthly	total daily flow	NA	NR	NA	
Flow, Maximum during 24 hr period ¹	gpd	NA	55,000	continuous/monthly	total daily flow	NA	NR	NA	
pH, Day of Sampling	S.U.	NA	NA	NR	NA	6.0-10.0	weekly	range during sampling	
pH, Minimum	S.U.	NA	NA	NR	NA	6.0	continuous/monthly	continuous	
pH, Maximum	S.U.	NA	NA	NR	NA	10.0	continuous/monthly	continuous	
Cadmium, Total	mg/l	0.1	0.5	semi-annual	daily composite	0.75	NR	NA	
Chromium, Total	mg/l	1.0	2.0	weekly	daily composite	3.0	NR	NA	
Copper, Total	mg/l	1.0	2.0	weekly	daily composite	3.0	NR	NA	
Cyanide, Total	mg/l	NA	NA	NR	NA	---	semi-annual	grab	
Lead, Total	mg/l	0.1	0.5	weekly	daily composite	0.75	NR	NA	
Nickel, Total	mg/l	1.0	2.0	weekly	daily composite	3.0	NR	NA	
Oil Petroleum, total recoverable	mg/l	50.0	100.0	weekly	grab sample average	150.0	NR	NA	
Silver, Total	mg/l	0.1	0.43	semi-annual	daily composite	0.65	NR	NA	
Total Suspended Solids	mg/l	NA	---	semi-annual	daily composite	---	NR	NA	
Total Toxic Organics	mg/l	NA	NA	NR	NA	2.13	weekly	grab	
Zinc, Total	mg/l	1.0	2.0	semi-annual	daily composite	3.0	NR	NA	

Table A Footnotes and Remarks:

Footnotes:

¹ For this parameter the Permittee shall maintain at the facility a record of the total daily flow for each day of discharge and shall report the Average Daily Flow and the Maximum Daily Flow for each sampling month.

² The first entry in this column is the 'Sample Frequency'. If this entry is not followed by a 'Reporting Frequency' and the 'Sample Frequency' is more frequent than monthly then the 'Reporting Frequency' is monthly. If the 'Sample Frequency' is specified as monthly, or less frequent, then the 'Reporting Frequency' is the same as the 'Sample Frequency'.

Remarks:

Concentrated solutions from the heat treat line and bluing line shall not be discharged to the sanitary sewer. These concentrated solutions shall be hauled off-site by a licensed waste hauler and disposed of in a manner acceptable to the Commissioner.

- (B) All samples shall be comprised of only those wastewaters described in this schedule; therefore, samples shall be taken prior to combination with wastewaters of any other type and after all approved treatment units, if applicable. All samples taken shall be representative of the discharge during standard operating conditions.
- (C) In cases where limits and sample type are specified but sampling is not required, the limits specified shall apply to all samples which may be collected and analyzed by, the Department of Environmental Protection personnel, the Permittee, or other parties.
- (D) The limits imposed on the discharges listed in this permit take effect on the issuance date of this permit, hence any sample taken after this date which, upon analysis, shows an exceedance of permit limits will be considered non-compliance.

The monitoring requirements of this permit begin on the date of issuance of this permit if the issuance date is on or before the 12th day of a month. For permits issued on or after the 13th day of a month, monitoring requirements begin the 1st day of the following month.

SECTION 5: SAMPLE COLLECTION, HANDLING AND ANALYTICAL TECHNIQUES AND REPORTING REQUIREMENTS

- (A) Chemical analyses to determine compliance with effluent limits and conditions established in this permit shall employ methods approved by the Environmental Protection Agency pursuant to 40 CFR 136 unless an alternative method has been approved in writing in accordance with 40 CFR 136.4.
- (B) All metals analyses identified in this permit shall refer to analyses for Total Recoverable Metal as defined in 40 CFR 136 unless otherwise specified.
- (C) The results of chemical analysis required above shall be entered on the Discharge Monitoring Report (DMR), provided by this office, and reported to the Bureau of Materials Management and Compliance Assurance at the following address. The report shall also include a detailed explanation of any violations of the limitations specified. The DMR shall be received at this address by the last day of the month following the month in which samples are taken.

Bureau of Materials Management and Compliance Assurance
Water Permitting and Enforcement Division (Attn: DMR Processing)
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

- (D) If this permit requires monitoring of a discharge on a calendar basis (e.g. Monthly, quarterly, etc.) but a discharge has not occurred within the frequency of sampling specified in the permit, the Permittee must submit the DMR as scheduled, indicating "NO DISCHARGE". For those permittees whose required monitoring is discharge dependent (e.g. per batch), the minimum reporting frequency is monthly. Therefore, if there is no discharge during a calendar month for a batch discharge, a DMR must be submitted indicating such by the end of the following month.
- (E) Copies of all DMRs shall be submitted concurrently to the local Water Pollution Control Authority ("WPCA") involved in the treatment and collection of the permitted discharge.
- (F) For any table above that requires Total Toxic Organics (TTO) monitoring, the Permittee may, in lieu of analyzing for Total Toxic Organics, include a statement on the DMR, at the frequency required, certifying compliance with your Solvent Management Plan if such plan has been approved by the Commissioner in accordance with 22a-430-4(l) of the RCSA and by 40 CFR 433 (Metal Finishing). If such approval has been granted and the reports include the compliance statement, sampling for Total Toxic Organics is no longer a requirement of this permit. Approval has been granted on May 6, 2010.

SECTION 6: RECORDING AND REPORTING OF VIOLATIONS, ADDITIONAL TESTING REQUIREMENTS

- (A) If any sample analysis indicates that an effluent limitation specified in Section 4 of this permit has been exceeded, a second sample of the effluent shall be collected and analyzed for the parameter(s) in question and the results reported to the Bureau of Materials Management and Compliance Assurance (Attn: DMR Processing) within 30 days of the exceedance.
- (B) The Permittee shall immediately notify the Bureau of Materials Management and Compliance Assurance and the local WPCA of all discharges that could cause problems to the Publicly Owned Treatment Works ("POTW"), including but not limited to slug loadings of pollutants which may cause a violation of the POTW's NPDES permit, or which may inhibit or disrupt the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- (C) In addition to the notification requirements specified in Section 1B of this permit, if any sampling and analysis of the discharge performed by the Permittee indicates a violation of limits specified in Section 4 of this permit, the Permittee shall notify the Bureau of Materials Management and Compliance Assurance within 24 hours of becoming aware of the violation.

SECTION 7: COMPLIANCE CONDITIONS

The Commissioner may provide public notification, in a newspaper of general circulation in the area of the respective POTW, of permittees that at any time in the previous twelve months were in significant noncompliance with the provisions of this permit. For the purposes of this provision, a permittee is in significant noncompliance if its violation(s) meet(s) one or more of the following criteria:

- **Chronic violations:** Those in which sixty-six percent or more of all measurements taken during a six-month period exceed the Average Monthly or Maximum Daily Limit(s) for the same pollutant parameter.
- **Technical Review Criteria violations:** Those in which 33% or more of all of the measurements for each pollutant parameter taken during a six-month period equal or exceed the average or maximum daily limits multiplied by (1.4 for BOD, TSS, oil and grease) or (1.2 for all other pollutants except pH).
- **Compliance Schedule:** Failure to meet within 90 days after the schedule date, a compliance schedule milestone contained in or linked to a respective permit.
- **Noncompliance Reporting:** Failure to accurately report noncompliance in accordance with provisions identified in Section 6 of this permit.
- **Discretionary:** Any other violation of an effluent limit that the Department determines has caused, alone or in combination with other discharges, a violation of the POTW's NPDES permit, inhibition or disruption of the POTW, its treatment processes or operations, or its sludge processes, use or disposal.
- **Imminent Endangerment:** Any discharge of pollutant(s) that has caused imminent endangerment to human health, welfare or to the environment.

This permit is hereby issued on April 13, 2011.

/s/ AMEY W. MARRELLA
Amey W. Marrella
Deputy Commissioner

AWM/OB

cc: The Town of North Haven Water Pollution Control Facility

Violations Report

O F MOSSBERG & SONS INC CTP000372

DSN 0011

Monitoring Period End Date	Parameter	Reporting Type	Permit Limit	DMR Value	Units
06/30/2015	pH, maximum	INST MAX	10.0000	10.1000	SU
12/31/2015	pH, maximum	INST MAX	10.0000	10.3000	SU
03/31/2016	pH	INST MIN	6.0000	5.8000	SU
03/31/2016	pH, minimum	INST MIN	6.0000	5.8000	SU
10/31/2016	pH	INST MIN	6.0000	5.8000	SU
10/31/2016	pH, maximum	INST MAX	10.0000	11.3000	SU
10/31/2016	pH, minimum	INST MIN	6.0000	2.3000	SU
03/31/2017	pH, minimum	INST MIN	6.0000	5.8000	SU
08/31/2017	pH, minimum	INST MIN	6.0000	5.8100	SU
08/31/2018	Nickel, total [as Ni]	DAILY MX	2.0000	3.1500	mg/L
10/31/2018	pH	INST MAX	10.0000	12.5000	SU
10/31/2018	pH	INST MIN	6.0000	1.7000	SU
10/31/2018	pH, maximum	INST MAX	10.0000	12.5000	SU
10/31/2018	pH, minimum	INST MIN	6.0000	1.7000	SU