AGENCY OF NATURAL RESOURCES
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
ONE NATIONAL LIFE DRIVE, MAIN BUILDING, 2ND FLOOR
MONTPELIER, VT 05620-3522

FACT SHEET
(April 2016)

PRETREATMENT DISCHARGE PERMIT

PERMIT NO: 3-1450
PIN: NS95-0182

NAME AND ADDRESS OF APPLICANT:

Precision Valley Finishing, Inc.
P.O. Box 480
Springfield, VT 05156

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Precision Valley Finishing, Inc.
135 Main Street
Springfield, Vermont

RECEIVING MUNICIPAL WASTEWATER TREATMENT FACILITY:

Springfield Wastewater Treatment Facility, Springfield, Vermont

I. Proposed Action, Type of Facility, and Discharge Location

The Vermont Agency of Natural Resources (Agency) received an application on June 4, 2013 for a pretreatment permit to discharge to the designated municipal wastewater treatment facility from the above named applicant. The facility is engaged in metal finishing. The discharge is from the facility to the municipal sewer system.

II. Description of Discharge

A quantitative description of the discharge in terms of significant effluent parameters is based on state and federal laws and regulations, the discharge permit application, and the recent self-monitoring data.

III. Limitations and Conditions

The effluent limitations of the draft permit, the monitoring requirements, and any implementation schedule (if required), may be found on the following pages of the draft permit:

Effluent Limitations:	Page 2
Monitoring Requirements:	Page 2

IV. Facility History and Background

Precision Valley Finishing, Inc. is a "job shop" that performs various metal finishing operations, including plating (hexavalent, chromium, black oxide, and nickel), anodizing, and electropolishing processes. The facility is permitted for the discharge of treated rinse waters from the black oxide and nickel plating processes, and the anodizing process; process wastewaters from all other metal finishing activities are drummed and shipped off-site for disposal. The facility was previously subject to the Electroplating Point Source Category (40 CFR 413). When the categorical standards for Metal Finishing were proposed (1983) and promulgated, all facilities performing any of the identified metal finishing unit operations (listed in § 433.10(a)) were migrated and regulated under these new standards. Although existing job shop electroplaters were one of the two types of facilities that were allowed to remain covered by § 413, Precision Valley Finishing has changed processes/operations since the proposed § 433 standards (1983) and are therefore no longer considered an 'existing' facility to be allowed coverage under § 413. This facility is thus subject to the Metal Finishing Point Source Category, Subpart A (40 CFR 433.17).

The plating and anodizing rinse wastewaters are discharged into the Raw Waste Holding Tank prior to entering the pretreatment system. The pretreatment system consists of two conical bottom tanks, a plate and frame filter press, and an evaporator. The raw wastewater is pumped into a 1500 gallon tank for treatment by a hydroxide precipitation process and pH neutralization. The sludge from the precipitation process is gravity-drained to the Sludge Holding Tank and dewatered on the plate and frame filter press; the solids are drummed and shipped off-site for disposal. The supernatant is pumped from the 1500 gallon tank to a 1000 gallon tank. From this second tank, the treated wastewater is either discharged to the municipal sewer line or pumped to the evaporator tank.

Evaporator: The water content of the supernatant is significantly reduced in the evaporator. Once sufficiently concentrated, the remaining wastewater is drummed and shipped off-site for disposal.

Discharge: Treated process wastewater is discharged to the Town of Springfield Wastewater Treatment Facility. However, discharges are exceptionally rare since the facility installed the atmospheric evaporator in 1993. If there is a discharge, a sample port located on the discharge line would be used to collect the necessary compliance grab and composite samples. Effluent composite samples consist of a three grab samples taken at the beginning, approximately halfway, and at the end of batch discharges. The volume discharged can be accurately determined by the difference in water elevation measured in inches in the second tank.

V. Permit Basis and Explanation of Effluent Limitation Derivation

Flow – The total daily discharge volume limitation remains 1500 gallons per day, maximum.

Monitoring and Reporting – Monitoring is ***only*** required when there is a discharge to the Springfield Wastewater Treatment Facility. The Permittee shall note on the report forms if there was no discharge during a reporting period. Because of the infrequent nature of the discharge, the draft permit maintains the requirement of reporting on a quarterly basis.

Total Metals – In accordance with the federal regulations under 40 CFR 433.17, the draft permit contains effluent limitations for cadmium, chromium, copper, lead, nickel, silver, zinc, and cyanide. Because of the infrequent nature of the discharge, the draft permit maintains the requirement of monitoring on a quarterly basis.

Total Toxic Organics (TTO) – Federal regulations under 40 CFR 433 define a group of regulated organic compounds as total toxic organics (TTO). The regulations limit the daily maximum concentration of TTO in metal finishing wastestreams to 2.13 mg/L. Monitoring is only necessary for those compounds reasonably expected to be present in the wastewater. The permit sets a once per year monitoring requirement for TTO unless the certification statement in the permit is signed and submitted with each quarterly monitoring report.

pH – The effluent limitation for pH remains between 5.5 and 9.5 Standard Units, consistent with the Town of Springfield's Sewer Ordinance, and shall be monitored with each batch discharge.

VI. Procedures for Formulation of Final Determinations

*The public comment period for receiving comments on this draft permit ran from **April 18 through May 18, 2016**. No comments were received concerning the draft permit.*