



SUSQUEHANNA RIVER BASIN COMMISSION

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Consumptive Use Application Summary

Source Name: Timet Morgantown Consumptive Use
Renewal

SRBC Pending No.: 2022-121

This summary is only a portion of the application materials and is meant to provide general information about the proposed project.

1.0 General

This section requests pertinent information related to the consumptive use, and if applicable, out-of-basin diversion application(s) that are being requested.

1.1 Project Sponsor

Company Name: Titanium Metals Corporation (TIMET)

Mailing Address Line 1: 900 Hemlock Road

Mailing Address Line 2:

City: Morgantown

State: PA

ZIP Code: 19543

Contact Person:

First Name: Neil

Last Name: Shelley

Title: Plant Manager

Telephone: (610) 286-1184

Fax:

Mobile:

E-mail: neil.shelley@timet.com

1.4 Requested Consumptive Use Quantity(ies):

The consumptive use should be entered in million gallons per day (mgd) and rounded up to the nearest one thousand gallons (three decimal places). For multiple sources, provide the total quantity for existing and proposed consumptive use, as applicable.

1.4.1 Projected Design Year:

2037

1.4.2 Existing Consumptive Use Quantity

0.177(mgd) Peak-day 30-day average

1.4.3 Requested Consumptive Use Quantity

0.177(mgd) Peak-day 30-day average

2.4 Facility Location

Please enter the address of the parcel where the Project Facility is located.

2.4.1 Facility Address

Street Address: 900 Hemlock Road

State: PA

County: Berks

Municipality: Caernarvon Township

Zip Code: 19543

Purpose: The purpose of the application is to request renewal of Docket 20080616 for the consumptive use of water associated with the titanium refining processes.

Location: The project is located in the Lower Susquehanna Subbasin, HUC 02050306, Conestoga River Watershed, Caernarvon Township, Berks County, Pennsylvania.

Project Features: The project sponsor has requested approval for a maximum daily consumptive use of water of up to 0.133 million gallons per day (mgd) for use in titanium refining. The project sponsor intends to expand its manufacturing capabilities within the next three years, and the requested quantity will meet that future demand.

Titanium Hearth Technologies, Inc., d/b/a TIMET North American Operations (TIMET), began manufacturing at the facility in Caernarvon Township in 1982. TIMET produces raw titanium that is used in the aerospace industry, defense systems, and in various other industries. The facility has the ability to melt and refine titanium from industrial grades through aerospace qualified grades. Specific location information concerning discrete water-related project features has been withheld for security reasons. Water for the facility is provided from an on-site well and from a public water supply connection. Water is consumptively used in the non-contact cooling systems of the furnaces. Currently, there are twelve furnaces of various types at the facility and each furnace is serviced by a closed-loop cooling system, a heat exchanger, and a cooling tower. Each furnace is surrounded by a water-cooled jacket with copper and steel conductors. Water is pumped from a holding tank, through the water jacket, through a heat exchanger, and back to the tank. Another cooling loop pumps water from a second holding tank, through the heat exchanger, then to an evaporative cooling tower. The cooled water returns to the second holding tank. Blowdown water is collected, polished, and then discharged with a National Pollutant Discharge Elimination System (NPDES) permit to an unnamed tributary of the Conestoga Creek (the discharge is metered). Well 1 has historically provided the majority of the process water for the facility.

Water for the facility also is purchased from the Caernarvon Township Authority and is currently metered as it enters the facility. Effluent from the facility is discharged to either the Caernarvon Township Sewer Authority's sanitary sewer system or to an unnamed tributary of the Conestoga Creek in accordance with TIMET's NPDES permit. Both discharges are metered.