



## SUSQUEHANNA RIVER BASIN COMMISSION

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Web <http://www.srbc.net>

### Consumptive Use Application Summary

**Source Name:** Pleasant Gap Plant - Consumptive Use  
Modification

**SRBC Pending No.:** 2019-090

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

#### 1.0 Application Background

This section requests pertinent information related to the application that is being submitted.

#### 1.1 Project Sponsor

Company Name: Graymont (PA) Inc.  
Mailing Address Line 1: 375 Graymont Road  
Mailing Address Line 2:  
City: Bellefonte  
State: PA  
ZIP Code: 16823

#### Contact Person:

First Name: John  
Last Name: Maitland  
Title: U.S. Manager, Health, Safety, and Environment  
Telephone: 814-353-2106  
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**E-mail:** [jmaitland@graymont.com](mailto:jmaitland@graymont.com)

#### 1.4 Requested Consumptive Use Quantity:

The consumptive use should be entered in million gallons per day (mgd) and rounded up to the nearest one thousand gallons (three decimal places).

##### 1.4.1 Projected Design Year:

0.72

##### 1.4.2 Existing Consumptive Use

0.593(mgd)

##### 1.4.3 Requested Increase in Consumptive Use

0.098(mgd)

##### 1.4.4 Modification Applications

Enter the previously approved quantity: 0.622(mgd)

Total requested consumptive use for the facility: 0.720(mgd)

### 2.3 Facility Location

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

Street Address: 375 Graymont Road

State: PA

County: Centre

Municipality: Spring Township

Zip Code: 16823

**Project Facility Description  
Modification of Consumptive Use  
Graymont (PA) Inc. – Pleasant Gap Facility  
Spring Township, Centre County, Pennsylvania**

Graymont (PA) Inc. (Graymont) operates an underground limestone mine and lime plant in Pleasant Gap, Centre County, PA. The Underground Mine provides high calcium limestone to support the lime plant that consists of a 1,200 ton per day rotary preheater lime kiln, a 1,050 ton per day rotary lime kiln, a lime hydrating facility, and a vertical lime kiln. Graymont also operates an emissions scrubbing system with power generation from a waste heat recovery system. In addition, Graymont owns and is the permit holder for the Gentzel/Tressler Quarry which is operated by Glenn O. Hawbaker Inc. (GOH) for the extraction of limestone used for the production of aggregate. These facilities, in addition to the Brooks Quarry and the GOH White Rock Quarry and plant, are commonly referred to as the Pleasant Gap Mine Complex.

Water pumped from the Underground Mine and Gentzel/Tressler Quarry is either utilized by the lime plant for the manufacture of industrial lime, discharged to Logan Branch via a 26-inch diameter, steel pipeline, or discharged to the Whiterock Sinkhole located on Graymont property, adjacent to the 1 million-gallon capacity Mine Tank and the 250,000-gallon capacity Plant Tank. Docket approvals issued by the SRBC to both Graymont and GOH have prescribed pass-by flow requirements in Logan Branch, along with defined conservation releases requiring water storage and release to the stream during low flow periods.

Graymont has approved dockets with the Susquehanna River Basin Commission (SRBC) that pertain to the withdrawal of groundwater and the consumptive use of water at the Pleasant Gap facilities. These dockets include:

- Docket No. 20050306 – Approved March 29, 2005 for a Consumptive Water Use of Up to 0.622 million gallons per day (MGD). This docket includes a detailed description of the mine complex as well as the on-site water uses. Also defined in the docket are specific conditions pertaining to water metering, monitoring and evaluation requirements, passby flows in Logan Branch, as well as water storage and conservation release requirements.
- Docket No. 20050306-1 – Modification Approved December 5, 2007 for a Groundwater Withdrawal of 0.099 MGD from the Wash Plant 11 Well for the Mining and Processing of Limestone and Production of Industrial Lime. This docket addresses the transfer of ownership of an on-site well from GOH to Graymont.
- Docket No. 20050307 – Approved March 18, 2010 for a Groundwater Withdrawal of 0.050 MGD from the Plant Make-Up Well for the Processing of Limestone and Production of Industrial Lime. This docket addresses the regulatory requirement for groundwater withdrawal approval for a previously grandfathered source due to the addition of the Wash Plant 11 Well as a new source of water for Graymont.



Graymont presently needs the ability to utilize the existing rotary lime kiln water spray tower at an increased frequency and duration in order to meet customer demands. Recent modifications to the kiln fuels adding the use of natural gas have increased the amount of water consumption required by this spray tower. This spray tower has been a part of the existing process for the rotary kiln since initial installation but has only been used sparingly under different fuel conditions. The spray tower operation is required when the waste heat boiler is offline for maintenance or other reasons and requires a material amount of water. Graymont will continue to utilize water from the existing 250,000-gallon plant tank to supply water for this process. It is estimated that the planned rotary kiln spray tower process will use an increased average of approximately 157 gpm / 226,080 gpd, with a maximum daily usage of approximately 192 gpm / 276,480 gpd when in use. The average flow rate will be approximately 110 to 160 gpm, with a peak flow rate around 192 gpm. It is assumed that this water will be consumed through evaporation as part of the process cooling provided by the water spray tower. Graymont seeks to increase its approved consumptive use by 98,000 gpd (to 0.720 MGD) and requests that compliance be based on a 30-day average rather than the existing maximum daily consumptive use basis. This request is made based on the variable nature of the planned operation.

