

MODULE 6

Module 6: Environmental Resources Maps

6.1 U.S.G.S. Map. [§77.104]

Provide a 7 1/2 minute U.S.G.S. topographic map (latest edition) delineating the proposed surface mine permit area and NPDES discharge points. Identify the map as Exhibit 6.1. (Note: Reproductions or maps obscured by identification keys will not be accepted.) **Refer to the attached Exhibit 6.1**

6.2 Environmental Resource Map. [§77.410]

Provide a map or plan that includes the permit area and the area within 1000 feet of the permit area. The map or plan shall be clear, accurate, easily read and on a scale of no smaller than 1 inch = 400 feet. Maps on the scale of 1 inch = 200 feet for permit areas of 100 acres or less and 1 inch = 400 feet for permit areas larger than 100 acres are preferred. Use the same scale as used for Modules 9 and 18. Identify the map plan as Exhibit 6.2 Environmental Resources Map. Each map or plan must bear the seal or facsimile imprint of a registered professional engineer; or the seal or facsimile imprint of a registered professional land surveyor. A registered professional geologist must certify the geology-related information of items m), n), o), and p). Show all the following information within the permit area and for a distance of 1000 feet from the permit area, unless specified otherwise. Include an appropriate legend on the map. Indicate which items are present by placing a check mark in the box before this item. Please provide the permit number (if it has been assigned) or a space for it in the title block.

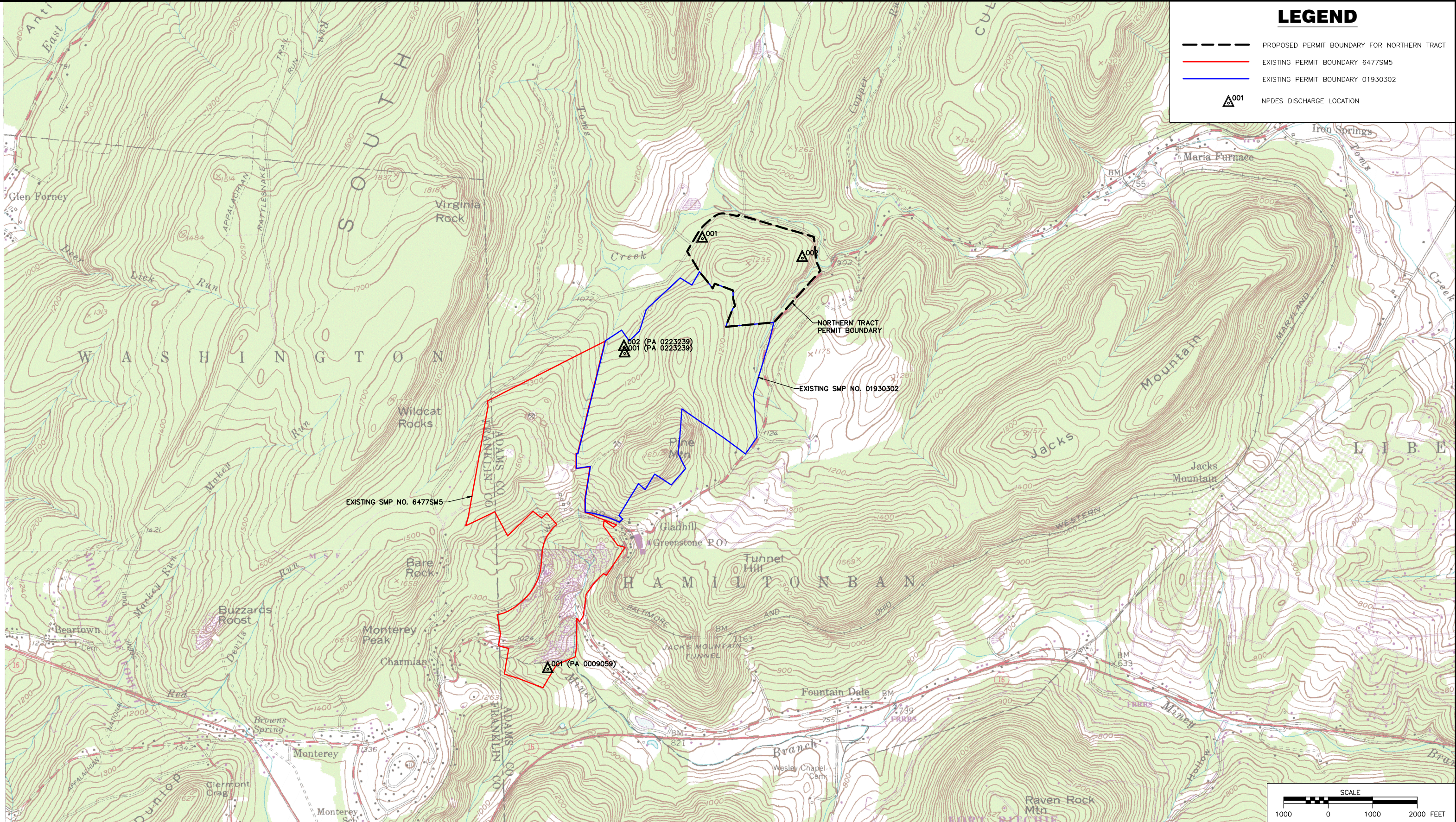
Refer to the attached Exhibit 6.2

- ☒ a) topographic contours (contour intervals of 20 feet or less)
- ☒ b) proposed permit area
- ☒ c) surface water bodies such as streams, lakes, ponds, springs, wetlands, mine discharges and constructed or natural drains (include restricted and variance areas, and names of streams and lakes/use a unique label for each unnamed tributary)
- ☒ d) property lines (key ownership to Module 5)
- ☒ e) buildings (include names of the owners and present occupants, and the current use. Show restricted or variance areas)
- ☒ f) man-made features such as public highways, railroads, utility lines including right-of-ways or easements and other surface and subsurface manmade features (include the name of the highway, railroad and utility and the restricted or variance areas)
- ☐ g) oil and gas wells in and within 125 feet of the proposed permit area (include the name of the well owner/operator and well permit number. Show restricted or variance areas.)
- ☐ h) public or private cemeteries or Indian burial grounds (include restricted areas)
- ☒ i) existing or previously surface-mined areas, and existing areas of spoil, waste, and processing waste disposal (key to Module 7.4 and show permit name on map)
- ☒ j) areal extent of active and abandoned underground mines and entries (Key to Module 7.4)
- ☐ k) solid waste disposal areas
- ☒ l) test hole locations (key to 7.1 b data)
- ☒ m) strata strike and dip or structure contours
- ☒ n) geologic faults
- ☒ o) formation contacts and coal croplines (when applicable)
- ☒ p) direction(s) of groundwater flow (local and regional)
- ☒ q) public and private water supplies (include type, elevation of all springs, and key to Module 8.2(a)(8))
- ☒ r) public water supplies within ½ mile of the permit area and those with Wellhead Protection Zone extending to the permit area. Show on Exhibit 6.1 if outside limits of Exhibit 6.2.
- ☒ s) background and proposed monitoring points (key to Module 8. 1A)
- ☒ t) NPDES discharge points
- ☐ u) landslide prone areas
- ☐ v) sinkhole development and known cave systems

EXHIBIT 6.1

Wednesday, January 3, 2018 9:15:41 AM

R: 2015152596 - SGI Disposal Embankment Drawings Northern Tract Exhibit 6.1-R0.dwg



NOTES / REVISIONS

REFERENCE:
 USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES
 BLUE RIDGE SUMMIT PENNSYLVANIA QUADRANGLE, DATED 1953, PHOTOREVISED 1985
 IRON SPRINGS PENNSYLVANIA QUADRANGLE, DATED 1953, PHOTOREVISED 1968 AND 1973
 SCALE: 1" = 1000'

ISSUED FOR	DATE	REV.	REVISION DESCRIPTION	MADE BY	CHKD BY	DATE
		4				
		3				
		2				
		1				

SEAL:

12-22-17

DAPPOLONIA

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SPECIALTY GRANULES LLC
CHARMIAN - NORTHERN TRACT QUARRY

EXHIBIT 6.1
 U.S.G.S MAP

DRAWN BY: AJM	DATE: 4/13/2016
CHECKED BY: CHKD BY	DATE: DATE

SCALE: AS SHOWN	DRAWING NO. 4	REV 0
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