



## Seneca Coal Company

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February 04, 2017

Colorado Department of Public Health and Environment  
Water Quality Control Division  
Permits and Enforcement Section  
4300 Cherry Creek Drive South  
Denver, CO 80246-1530

**RE: 2016 SWAR: CDPS Permit CO-0000221; Seneca**

Dear CDPHE:

Attached please find the 2016 Stormwater Annual Report for Seneca Coal Company: Seneca II Mine, Seneca II-W Mine and Yoast Mine.

Please contact me with any comments and/or questions.

Sincerely,

Brian Watterson  
Geologist

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Enclosure: Seneca 2016 SWAR

# STORMWATER ANNUAL REPORT – METAL MINING (& COAL)

## COLORADO DEPT. OF PUBLIC HEALTH & ENVIRONMENT

Water Quality Control Division

WQCD-P-B2

4300 Cherry Creek Drive South

Denver, Colorado 80246-1530

Check if this is a new  
name, address, etc.

Permittee (Company Name): Seneca Coal Company

Facility Name: Seneca II, Seneca II-W and Yoast Mines (Seneca Mine Complex)

Mailing Address: Peabody Energy, PO Box 670, Hayden, CO 81639

Facility Phone Number: 970-276-7003

Permit Certification No. CO-0000221

Reporting Permit: January 1 – December 31, 2016 (Form is due by Feb.15 of the following year)

**Each section must be completed. Please print or type.**

A. A report on the facility's overall compliance with the SWMP. (Include here a summary of any measures taken to comply with your Stormwater Management Plan (SWMP), to fully implement it, changes or improvements made in any of your Best Management Practices (BMPs), employee training, spills, other problems encountered, etc. How is your plan working?)

The Seneca Coal Company (SCC) SWMP identifies all potential sources of pollution which may affect the quality of stormwater discharges. It does not address those disturbance areas that contribute runoff to NPDES (CPDS) permitted discharge points which operate under applicable effluent limitations. The potential pollutant sources are limited to: twelve sediment control pond outslopes, topsoil stockpile areas and haul roads. Sediment is the sole potential pollution source. To minimize, control and contain sediment, the following BMPs are utilized individually or in combination, at various locations: containment berms, diversion ditches, culverts, porous rock check dams, straw dikes, silt fences, catchment sumps or stocktanks and the reestablishment of vegetation. SCC personnel inspect these areas throughout the year for any significant erosion and/or sediment accumulation, and correct any problems as they occur. In addition to these inspections, each minesite is inspected on a monthly basis by personnel from the Colorado Division of Reclamation, Mining and Safety (CDRMS). SCC has been working with the CDRMS over the past years to utilize the most effective alternate sediment control measures to minimize the amount of sediment and erosion being generated from the disturbance areas. Also, many of the pollutant sources will not be disturbed again in the future, and several of these locations will become permanent postmining facilities such as the sediment control ponds and a large portion of the existing haul road system. The vegetation has established on the outslopes and side slopes of these disturbed areas and resulting sediment runoff is minimal.

Coal production by SCC was completed in January 2006. A majority of the mining areas were reclaimed in 2006 and 2007. Maintenance of the reclaimed areas continues to this date. The Outfall 002, 003 and 004 areas were transferred from SCC to the Peabody Sage Creek Mine in 2010.

Were changes made to your SWMP? ☒ No ☐ Yes – Describe changes on a separate sheet.

B. A summary of each comprehensive facility inspection made, including date, findings, and action taken. (The permit requires at least **two** comprehensive facility inspections per year – see page 12 of the permit. Include here a **summary** of those inspections, plus any other comprehensive inspections made. It is not necessary to summarize day-to-day inspections, unless significant problems were noted.)

**First Biannual 2016 Inspection(s) – 03/03/16, 05/04/16.**

**Pond #006 exhibits a sluff on south side of hill above pond, not affecting pond. The intake at Pond #010 is showing rust but still functional. At Pond #012 signs of erosion behind and underneath flume. The flume at Pond #015 is tilted from runoff. Pond #016 exhibited seepage under discharge flume, site maintained with application of bentonite. Pond #017 exhibited seepage under discharge flume, site maintained with application of bentonite. II-W SW001 (Culvert G2) inlet and outlet exhibits 0.2' of sediment. II-W SW009 (Culvert A3) inlet exhibits 0.1' of sediment. II-W SW014 (Culvert J-4) outlet exhibits 0.2' of sediment. Yoast SW001 (Culvert YA-1) inlet and outlet exhibit 0.2' of sediment. Yoast SW004 (Culvert YA-3A) inlet exhibits slight undercutting. Yoast SW006 exhibits visible mat. Yoast SW007 (Culvert YA-4A) outlet exhibits 0.1' of sediment. Yoast SW008 (Culvert YA-5A) inlet is bent and exhibits 0.2' of sediment and the outlet is almost buried. Yoast SW009 (Culvert YA-5) inlet exhibits slight undercutting and outlet exhibits 0.1' of sediment. Yoast SW011 (Culvert YA-7) outlet exhibits 0.3' of sediment. Yoast SW012 (Culvert YA-unnamed) outlet exhibits slight damage and 0.1' of sediment. Yoast SW013 (Culvert YM-1) outlet exhibits 0.2' of sediment. Yoast SW014 (Culvert YA-8) outlet exhibits 0.1' of sediment. Prior to inspection maintenance had been performed at Culvert YA-4A, Pond 016, Culvert YA-5A and YA-unnamed.**

**Second Biannual 2016 Inspection(s) – 08/02/16, 10/03/16.**

**Pond #006 exhibits a sluff on south side of hill above pond, not affecting pond. The intake at Pond #010 is showing rust but still functional. At Pond #012 signs of erosion behind and underneath flume. The flume at Pond #015 is tilted from runoff. Pond #016 exhibited seepage under discharge flume, site maintained with application of bentonite. Pond #017 exhibited seepage under discharge flume, site maintained with application of bentonite, and exhibits a sluff on north side with armour working as designed. II-W SW001 (Culvert G2) inlet and outlet exhibits 0.2' of sediment. II-W SW008 exhibits a large sluff above 006. II-W SW014 (Culvert J-4) outlet exhibits 0.3' of sediment. Yoast SW001 (Culvert YA-1) inlet and outlet exhibit 0.2' of sediment. Yoast SW004 (Culvert YA-3A) inlet exhibits slight undercutting. Yoast SW006 exhibits visible mat. Yoast SW007 (Culvert YA-4A) outlet exhibits 0.1' of sediment. Yoast SW008 (Culvert YA-5A) inlet is bent and exhibits 0.2' of sediment and the outlet is almost buried. Yoast SW009 (Culvert YA-5) inlet exhibits slight undercutting and outlet exhibits 0.1' of sediment. Yoast SW011 (Culvert YA-7) outlet exhibits 0.3' of sediment. Yoast SW012 (Culvert YA-unnamed) outlet exhibits slight damage and is 90% full of sediment. Yoast SW013 (Culvert YM-1) outlet exhibits 0.2' of sediment. Yoast SW014 (Culvert YA-8) outlet exhibits 0.2' of sediment. Yoast SW017 exhibits undercutting and erosion around flume. Prior to inspection maintenance had been performed at II-W SW009.**

Other Inspections – Date \_\_\_\_\_. Findings, and action taken: \_\_\_\_\_

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*C. Results and interpretation of any stormwater monitoring performed. Attach a separate sheet with the lab results.*  
(Monitoring is **not** a requirement under the permit, unless you were specifically directed to do so by the Division.  
However, the results of any stormwater monitoring that you performed on your own should be reported here.)

Monitoring Results Attached?

X No    \_ Yes

D. Certification

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

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Signature of Permittee (legally responsible person)

Date Signed

**Brian Watterson**

Name (printed)

**Geologist**

Title