VA DEQ Recon Inspection Report

Virginia Department of Environmental Quality

FACILITY NAME: Dominion – Possum Point Power Station		**INSPECTION DATE:**	August 7, 2015
		INSPECTOR:	Susan Mackert
PERMIT No.: VA0002071		**REPORT DATE:**	August 11, 2015
TYPE OF FACILITY: ☐ Municipal ☑ Major ☑ Industrial ☐ Minor ☐ Federal ☐ Small Minor ☐ HP ☐ LP		**TIME OF INSPECTION:**	1:20 pm Arrival / 3:15 pm Departure
		TOTAL TIME SPENT:	3.5 hours
PHOTOGRAPHS: ☑ Yes ☐ No		**UNANNOUNCED INSPECTION?** ☐ Yes ☑ No	
REVIEWED BY / Date: 8/16/15			
PRESENT DURING INSPECTION:	Sean Iseminger, Barbara Monteiro, Whitey Pope, Dana West - Dominion		
	Brian Hall - GAI		
	Lisa Janovsky - DEQ		

INSPECTION OVERVIEW AND CONDITION OF TREATMENT UNITS

On August 6, 2015, Dominion self-reported an overflow which had occurred from a frac tank being utilized for ash pond closure at the Possum Point Power Station. A site visit was conducted on August 7, 2015, in response to this report. The following are noted:

- The frac tank (Photo 1) is being utilized to hold water from the Oily Waste Pond (Internal Outfall 502) and groundwater wells located in Ash Pond E which is then pumped to Ash Pond D as part of the closure process.
- On August 6, 2015, at approximately 5:45 am, the frac tank was observed by Dominion staff to be overflowing. Upon investigation it was discovered that the floats on both the primary and back-up pumps failed causing the overflow. By approximately 6:00 am, the pumps were switched to manual mode and normal flow of water to Ash Pond D resumed. A cause for the failures has not been determined. It is not known how long the overflow had been taking place. An estimate of the volume of the overflow was not available.
- Flow from the frac tank left the active work area (Photos 2 – 3) and followed a ditch adjacent to Possum Point Road (Photo 4) before crossing under Possum Point Road (Photo 5) entering a heavily vegetated area adjacent to Quantico Creek via a Virginia Department of Transportation (VDOT) culvert (Photo 6). It is not known if the overflow from the frac tank entered Quantico Creek. No flow was noted at the time of the site visit.
- As noted above, the overflow was comprised of water from the Oily Waste Pond (Internal Outfall 502) and groundwater from Ash Pond E. Dominion staff noted that groundwater wells are located approximately twenty (20) feet below the bottom of Ash Pond E to prevent the groundwater from coming in to contact with the ash. As such, any groundwater comprised in the overflow had not come in to contact with ash. Internal Outfall 502 was sampled on August 3, 2015, as part of the Station's routine permit requirements. Results were pending at the time of the site visit. For these reasons, samples were not collected from the overflow.
- At the time of the site visit, alarms were being installed on both the primary and back-up pumps which will notify selected staff via telephone if there is a problem with the pumps. Additionally, audible and/or visual alarms will be installed on the pumps to alert staff. Staff will now be at this site at all times.

INSPECTION OVERVIEW AND CONDITION OF TREATMENT UNITS (Continued)

- While on site, DEQ staff also requested to view ash movement at Ash Pond A, Ash Pond B, and Ash Pond C complex. Movement of ash began at this location on August 5, 2015. At the time of the site visit only ash from Ash Pond C was being removed and transported to Ash Pond D (Photos 7 – 8). The decant structure associated with Ash Pond C has been bladdered so that no water can enter the structure. Any flow is diverted to Ash Pond D. Approximately 400 feet associated with Ash Pond C has been rim ditched with an additional 600 – 800 feet being rim ditched to Ash Pond A (Photos 7 – 8).

EFFLUENT FIELD DATA: Not Applicable

Flow	MGD	**Dissolved Oxygen**	mg/L	**TRC (Contact Tank)**	mg/L
pH	S.U.	**Temperature**	°C	**TRC (Final Effluent)**	mg/L

Was a Sampling Inspection conducted? ☐ Yes (see Sampling Inspection Report) ☑ No

CONDITION OF OUTFALL AND EFFLUENT CHARACTERISTICS: Not Applicable

1. Type of outfall: ☐ Shore based ☐ Submerged Diffuser? ☐ Yes ☐ No
2. Are the outfall and supporting structures in good condition? ☐ Yes ☐ No
3. Final Effluent (evidence of following problems): ☐ Sludge bar ☐ Grease
   ☐ Turbid effluent ☐ Visible foam ☐ Unusual color ☐ Oil sheen
4. Is there a visible effluent plume in the receiving stream? ☐ Yes ☐ No
5. Receiving stream: ☐ No observed problems ☐ Indication of problems (explain below)

   Comments: **Facility outfalls and receiving streams were not observed.**

REQUEST for CORRECTIVE ACTION:

None

NOTES and COMMENTS:

None

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Photo 1. Frac tank.

Photo 2. Area of erosion at overflow point of frac tank.

Photo 3. Flow from the frac tank moved in the direction of the arrow towards Possum Point Road.

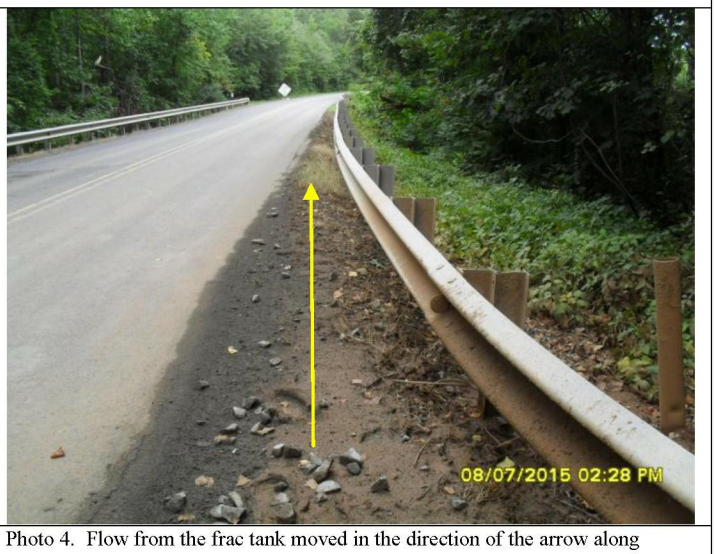

Photo 4. Flow from the frac tank moved in the direction of the arrow along Possum Point Road.

Photo 5. Area where the flow from the frac tank went underneath Possum Point Road. Flow was in the direction of the arrow.

Photo 6. VDOT culvert where flow from the frac tank (Photo 5) discharged to a heavily vegetated area. Flow was in the direction of the arrow towards Quantico Creek.

Photo 7. Combined with Photo 8 shows Ash Pond C. The arrow points towards the rim ditching.

Photo 8. Combined with Photo 7 shows Ash Pond C. The arrow points towards the rim ditching.