Planning Statement for VPDES Permit Application Processing DEQ-SCRO

VPDES	OwnerName	Facility	County
VA0005827	Town of Blackstone	Blackstone WTP	Nottoway County

Outfall #: 001

River Basin: Chowan and Dismal Swamp **Receiving Stream:** Hurricane Branch, UT

Subbasin: Chowan

Watershed Code: K16R **River Mile:** 0.8

	MGD		MGD
1Q10	0	**HF 1Q10**	0
7Q10	0	**HF7Q10**	0
30Q5	0	**HF30Q10**	0
30Q10	0	**HM**	0

Modeling Notes

WQMP Name No Plan

Statement There is no WQMP for the Chowan Basin.

TMDL ID VAC-K16R-01/0005

Impairment Cause General Standard (Benthics)

TMDL Due Date 2004

Completed TMDL Information

See attached information

TMDL Approval Dates EPA - 9/30/04 & SWCB - 3/15/05

Amanda B. Gray

Amanda B. Gray, Water Planning Engineer

5/7/08

Date

MEMORANDUM
Department of Environmental Quality
South Central Regional Office

7705 Timberlake Road **Lynchburg, Virginia 24502**

Subject: Planning Service Requests for VPDES Permit Application Processing

To: Amanda Gray, Water Planning Engineer

From: Leah Revelle, SCRO LRR

Date: May 5, 2008

Copies: Facility Permit Processing File, Planning File

The request for information from the planning section is to be made at the time of sending the reissuance reminder letter to the facility or, for an issuance or modification, at the time of application/modification request receipt.

FACILITY NAME: Town of Blackstone WTP

VPDES PERMIT NO. VA0005827 EXPIRATION DATE: May 4, 2009

PERMIT ACTION: Issuance ***Reissuance*** Modification

PERMIT TYPE: Major ***Minor*** Municipal ***Industrial*** Storm Water TMP TRE

PERMIT WRITERS: ATTACH THE FOLLOWING MAPS AND INFORMATION

- **Topo map with facility location and outfall locations clearly marked (include any proposed outfalls)**
- **Site diagram for facilities with multiple outfalls**
- **Description or map showing effluent flow path if not apparent on topo map**
- **The outfall numbers, latitude, longitude, receiving stream and topo name in the table below (use an additional sheet if there are more outfalls)**

Outfall No.	Latitude	Longitude	Receiving Stream	Topo Name
001	37° 02' 00"	77° 57' 00"	UT, Hurricane Branch	Blackstone East

_X_ Check if a new FLOW FREQUENCY DETERMINATION is being requested.
If checked, provide the previous flow frequency determination memo

__ Check if a new or revised WATER QUALITY MODEL is being requested.
If checked, provide the facility flow and the previous limitations page

DATE INFORMATION NEEDED May 12, 2008

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY
South Central Regional Office - Water Planning
7705 Timberlake Road Lynchburg, VA 24502 434/582-5120

SUBJECT: Flow Frequency Determination
Blackstone WTP – #VA0005827

TO: Leah Revelle

FROM: Amanda Gray AVG

DATE: May 7, 2008

COPIES: File

The Blackstone WTP discharges to an unnamed tributary of Hurricane Branch in Nottoway County, Virginia. Flow frequencies are required at this site for use by the permit writer in developing the VPDES permit.

The flow frequencies for the receiving stream were determined by inspection of the USGS Blackstone East Quadrangle topographic map. The map depicts the stream at the discharge point as intermittent. The flow frequencies for intermittent streams are 0.0 cfs for the 1Q10, 7Q10, 30Q5, 30Q10, HF1Q10, HF7Q10, HF30Q10 and harmonic mean.

If you have any questions regarding this analysis please feel free to contact me.

MEMORANDUM

DEPARTMENT OF ENVIRONMENTAL QUALITY
South Central Regional Office - Water Planning
7705 Timberlake Road Lynchburg, VA 24502 434/582-5120

SUBJECT: TMDL Wasteload Allocations
Blackstone WTP – #VA0005827

TO: Leah Revelle

FROM: Amanda Gray

DATE: May 7, 2008

COPIES: File

The Blackstone WTP discharges to an unnamed tributary of Hurricane Branch in Nottoway County, Virginia. A sediment TMDL was completed for the unnamed tributary in April 2004. The TMDL was approved by the US EPA on September 30, 2004 and the VA SWCB on March 15, 2005.

The TMDL does not include a WLA for TSS for the Blackstone WTP. The TMDL notes that the WTP sends its discharge to the WWTP for treatment. It was confirmed with WTP personnel that this is the case except for once every three months when they drain the clear wells. In order to account for the TSS load entering the unnamed tributary from the WTP, it is recommended that the TSS limit at the Blackstone WWTP be reduced to 18 mg/L. This will allow for the load from the WTP, which is 30 mg/L at 0.089 MGD.

The TMDL will be amended to correct the associated WLA with the permitted facilities in the watershed. In the mean time, the proposed limits for both facilities should be protective of water quality in meeting the established WLA for the sediment TMDL.

Please let me know if you have any questions regarding this proposal.