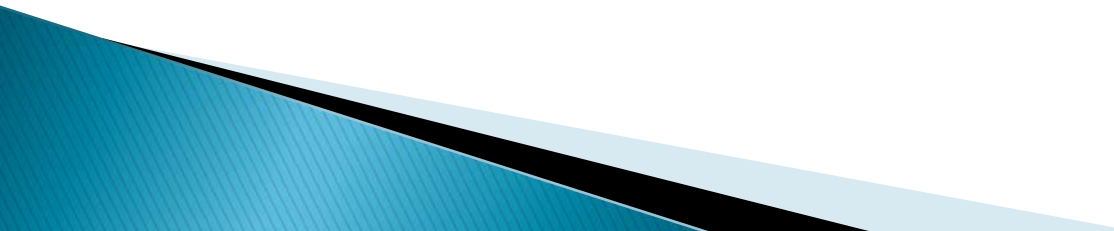


March 30, 2017

P. E. Seminar, Abingdon, Virginia

*“The Results and Status of DMLR’s Benthic  
Macroinvertebrate Monitoring Requirements”*

George Joey O’Quinn  
Reclamation Program Manager  
Virginia DMME DMLR



FRED W. WALKER  
JERALD F. MCCOBE  
Deputy Director



COMMONWEALTH of VIRGINIA

Department of Conservation and Economic Development

DIVISION OF MINED LAND RECLAMATION  
DRAWER U, 800 STONE GAP, VIRGINIA 24319  
TELEPHONE: (703) 523-2923

DANNY B. BROWN, Commissioner

DIVISIONS  
FORESTRY  
LITTER CONTROL  
MINED LAND RECLAMATION  
MINERAL RESOURCES  
SALT WATER SPORT FISHING  
STATE PARKS  
VIRGINIA STATE TRAVEL SERVICE

Please be advised that the following items are a part of permit package: Red River Coal Co.

CSMO Permit No. 1100024

NPDES Permit No. 0080024

Included if checked

- SMCRA Permit
- NPDES Permit
- NPDES Requirements/Effluent Limitations
- NPDES Discharge Monitoring Report Forms
- Rainfall Reporting Form
- Groundwater Monitoring Report Form(s)

The report forms, as checked above, should be copied and reported at the appropriate time(s).

If you should have any questions, contact Robert D. Allman or Samuel D. Easterling



COMMONWEALTH OF VIRGINIA  
Department of Mines, Minerals and Energy  
Division of Mined Land Reclamation

NPDES Permit Number: 0081903  
Associated CSMO Permit Number: 1101903  
Permit Application Number: 10089558

Permit Original Issue Date: 03/23/2004  
Application Approval Date: 05/24/2016  
Expiration Date: 03/23/2019

AUTHORIZATION TO DISCHARGE UNDER THE  
VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM  
AND  
THE VIRGINIA STATE WATER CONTROL LAW

Pursuant to Authority under Section 45.1-254 of the Code of Virginia, as amended, and the Virginia Pollutant Discharge Elimination System (VPDES) Regulation, Part X - Delegation of Authority to the Department of Mines, Minerals and Energy for Coal Surface Mining Operations (9VAC25-31-940), the owner is authorized to discharge from the facility listed below in compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto and in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Sections A, B, C, and D of this permit and the plans and requirements found in joint CSMO/VPDES permit number 1101903/0081903 and any and all subsequent approved permitting actions. For the purpose of this permit, NPDES and VPDES permits are synonymous.

Owner: PARAMOUNT COAL COMPANY VIRGINIA, LLC  
Facility Name: HAWKS NEST SURFACE MINE  
County: BUCHANAN  
Facility Location: 2 MILES NE OF PRATER ON DEEL BRANCH

The owner is authorized to discharge to the following receiving streams:

Stream Name	Stream Basin	Stream Subbasin	Stream Tier
DEEL BRANCH	BIG SANDY	RUSSELL FORK - LOWER RUSSEL FK	Tier I

*Randy R. Casey*  
Director, Division of Mined Land Reclamation  
Date: 6/1/16

RECLAMATION MAKES IT

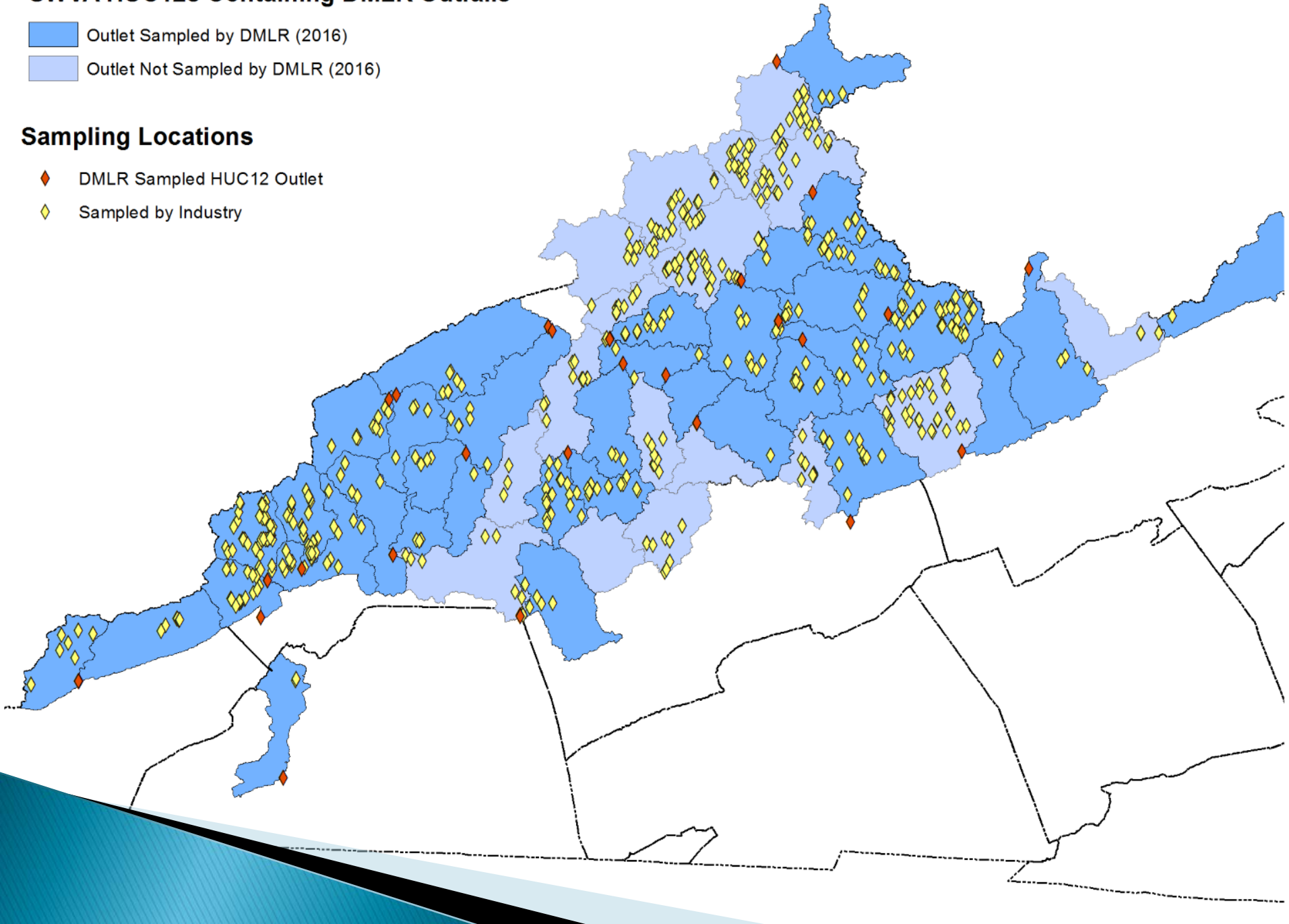


# SWVA HUC12s Containing DMLR Outfalls

- Outlet Sampled by DMLR (2016)
- Outlet Not Sampled by DMLR (2016)

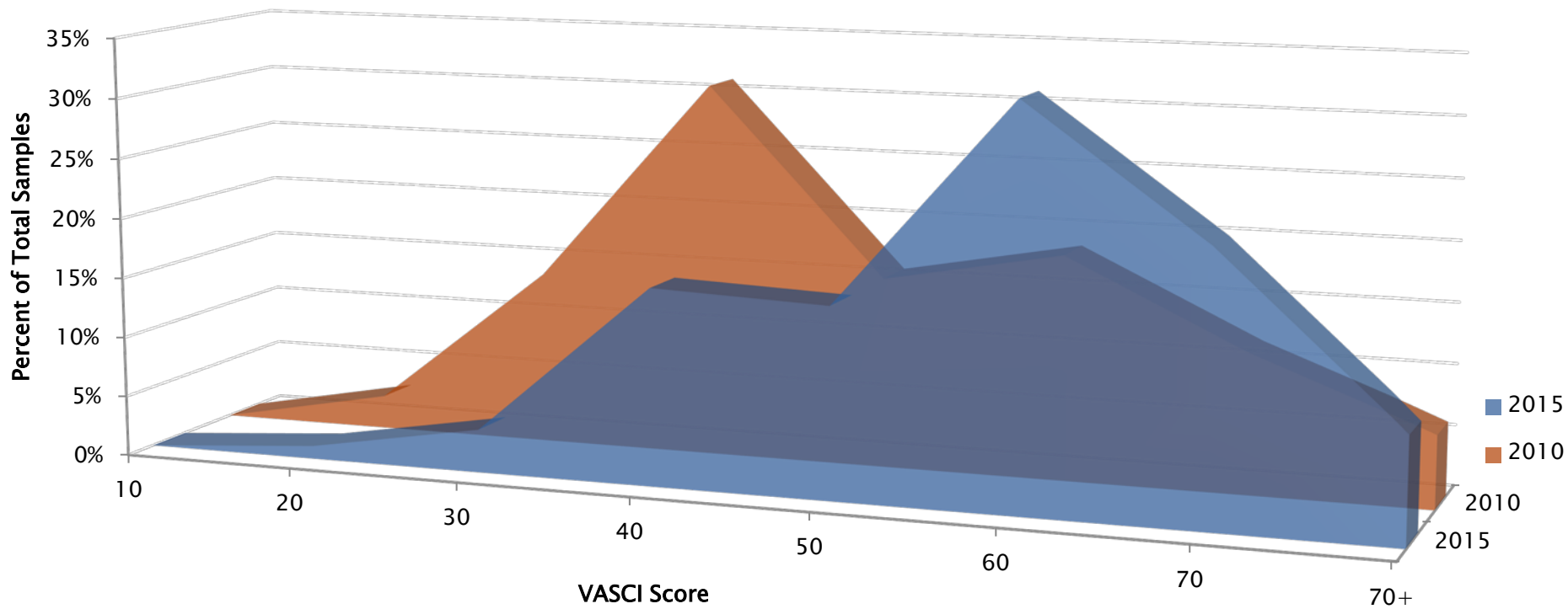
## Sampling Locations

- DMLR Sampled HUC12 Outlet
- Sampled by Industry





# 2010 vs 2015 VASCI Scores (as percent of total by year)



VASCI Score	2010 Samples	2010 (%)	2015 Samples	2015 (%)
10	0	0%	0	0%
20	6	3%	6	1%
30	31	14%	20	4%
40	67	31%	91	16%
50	34	16%	88	16%
60	40	19%	183	33%
70	25	12%	124	22%
70+	13	6%	49	9%
<b>Total</b>	<b>216</b>		<b>561</b>	

QUESTIONS?