

Trading for Compliance Pennsylvania Nutrient Trading Program

Chesapeake Bay Trading and Offset Workgroup

February 19, 2014

OVERVIEW

- Verification & Registration of Point Source Credits
- How Point Sources Purchase Credits for Compliance Purposes
- Compliance Year 2013 Statistics



HOW PA VERIFIES POINT SOURCE CREDITS

- DEP calculates yearly TN and TP loading (lbs.) using the monthly totals from the monthly supplemental DMR's.
- DEP than calculates the difference between the assigned facility cap load and the yearly loading (lbs.)
- If positive, DEP adjusts the number down using an attenuation factor that we call delivery factor.
- The final number is than adjusted by another 10% that DEP uses as a reserve.



HOW POINT SOURCES PURCHASE CREDITS

- Facilities enter into a contract with an entity or entities that have DEP verified credits.
- DEP reviews the contract and if approved assigns a registration number that is tied directly to each verified credit.
- The purchasing facility inputs the registration number(s) and the number and type of credits into a Monthly TN/TP Budget Form and submits the form with monthly DMR and supplemental DMR to DEP.



HOW POINT SOURCES PURCHASE CREDITS (cont.)

- At the end of the compliance year, before the end of true-up, facility's with cap loads enter the following into DEP's annual nutrient summary form:
 - monthly loads (lbs.) of TN and TP from the supplemental DMR form for the compliance year.
 - all sales of credits, bought or sold.
- DEP regional staff review the facility's submittals with the help of the trading program staff, and all registration of credits, bought or sold, throughout the year to determine compliance.



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CHESAPEAKE BAY SUPPLEMENTAL REPORT NUTRIENT MONITORING

Facility Name:		Month: 10 (Select number)	Year:	2011
Municipality:	County:	NPDES Permit No.:	Outfall:	
Watershed		Renewal application due 180 days p	rior to expiration.	
•		This permit will expire on:		

	FLOW			Tot	al P			NH₃-N			TKN			NO₂+NO₃ as N				Total N							
DAY	MGD	Q	m	ıg/l	Q	lbs/day	Q	m	g/l	Q	lbs/day	Q	m	ıg/l	Q	lbs/day	Q	m		Q	lbs/day	Q	mg/l	Q	lbs/day
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Avg																									
	Monthly T	otal	Loads	(lbs):				•					•					•							

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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 aw are that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

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CHESAPEAKE BAY SUPPLEMENTAL REPORT MONTHLY NITROGEN BUDGET

Facility Name: Municipality: Watershed: Total N Credits Pour Total N (TN) Delive	urchased During Mery Ratio:	Cou	inty:		80 days prior	Year: Outfall: or to expiration.			
	7	otal Nitrogen - Pound				Total N	litrogen - Offs	sets	
Registry Number	Contract Effective Date	Credits Applied / TN Delivery Ratio for Facility (lbs)*	Credits Sold / TN Delivery Ratio for Facility (lbs)	DEP Approval Date		Source	Amount (lbs)	DEP Approval Date	
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					1				
	nthly Total (lbs):	y this month toward compli	ango with annual loos	Llimitations		Monthly Total (lbs):		l	
I certify under penalty evaluate the informa information submitted	Monthly Total Niting Monthly Net Niting of law that this docution submitted. Based is, to the best of my	rogen Load (lbs): rogen Load (lbs): ument was prepared under l on my inquiry of the pers	(Act (Act my direction or super on or persons who r accurate and comple	ual Load Discharged) ual Load + (Credits Solution in accordance manage the system of te. I am aw are that the	old / T with or thos	TN Delivery Ratio) - (Credits a system designed to assu se persons directly responsare significant penalties for on).	re that qualified sible for gathering	personnel gather and	
	Prepared By:			License Date:	No.:	:			

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pennsyl DEPARTMENT OF ENVIRO	vailla		ANNUAL NUTRIENT SUMMARY											
V	From mo	nthly												
Facility Name: _		•				For Com	For Compliance Year: 10/1/ to 9/30/							
Municipality:	suppleme	ental	County	:		NPDES Permit No.: Renewal application due 180 days prior to expiration. This permit will expire on:								
Watershed:	DMR's		llee	_										
Total N Credits Pur DIVIR'S Total P Credits Purchased During Year:			lbs lbs	From mo	onthly	Delivery	Ratios: Tota	Total P:						
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Calculations.	_	Adjustments Nov 28)												
	(0011-	140 20)												
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evaluate the information														
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possibility of fine and im	orisonment for kno	wing violations.	See 18 Pa. C.	S. § 4904 (relating	g to unsw orn falsifi	cation).								
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POINT SOURCE PA TRADING STATISTICS

- One verified non compliant facility in Compliance Year 2013
- 41 Facilities generated <u>verifiable</u> credits.
 - 1,490,819 Total Nitrogen Credits
 - 94,259 Total Phosphorous Credits
- 45 Facilities <u>purchased</u> credits
 - 802,959 Total Nitrogen Credits
 - 84,725 Total Phosphorous Credits









Bureau of Point and
Non Point Source Management

Brian Schlauderaff bschlauder@pa.gov

Veronica (Nicki) Kasi vbkasi@pa.gov