



PA DEP: Nutrient Trading Program

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- Who can participate?
 - Any facility subject to new cap loads for nutrients or related to restoration and protection of the Chesapeake Bay. **Buyers and Sellers.**
 - Any farmer who may voluntarily choose to implement nutrient or sediment reduction measures beyond regulatory requirements. **Sellers.**



- Who can participate in the program?
 - Any developer that seeks to create a new or expanding discharge that must meet the zero net load. **Buyers**
 - Any aggregator that seeks to arrange for the sale of credits generated by another person, or arranges for the credits to be certified, verified and registered.



Eligibility for Credit Generation

Point Source

- Discharge loading limit expressed in an NPDES Permit.

Nonpoint Source

- Must be in baseline compliance with applicable conservation and nutrient management requirements.
- Must be beyond compliance, by either a 20% reduction in nutrients, 100' setback OR the establishment of a 35' buffer.



Example Credit Generation Activities

Agricultural BMPS	• Continuous no-till • Cover crops, • Riparian buffers and stream bank fencing. • Poultry manure export
Manure Technology	• Dairy Manure Treatment – Solids Separation and Nitrogen Removal • Poultry Manure Gasification or Incineration
Point Source	• Wastewater Treatment Plants under their Permitted Cap Load and using BNR.



So how does one move forward with:



- Submitting a Proposal and Obtaining Approval (Certification)
- Interacting on the Marketplace
- Entering into a Trade (Verification and Registration)



Certification (Proposal) –First Step

DEP nutrient trading website and Section 96.8e regarding Proposal Information:

- Proposal Narrative:
 - Project details: farm location, acreage, practice generating credits, credit term, etc.
 - Credit Calculation Summary Table
- NMP, MMP or Nutrient Balance Sheets
- Maps/Aerial Photos
- Excel Calculation Spreadsheets/ Chesapeake Bay Supplemental DMR Forms
- Review that baseline and threshold requirements to trade are met.
- Verification Plan



Verification

- Verification must demonstrate that the pollutant reduction activity has been implemented as described in the certification and that other requirements such as baseline are met.
- Point Source - Review Supplement DMR Reports
- Non Point Source – Review and confirm Verification Plan was met.



Registration

- Contract between seller and buyer
- Once DEP Registers Credits the buyer can record the credits purchased on the Chesapeake Bay Supplemental report.



2013-2014 Trade Examples

Generator	Buyer	N Credits Reg	P Credits Reg	FarmGeneratorID	Site Contact Name	RegistrationID	RegistrationDate
CHESAPEAKE NUTRIENT MANAGEMENT	BION	617	42	Esbenshade	Archer	493	26-Nov-14
CHESAPEAKE NUTRIENT MANAGEMENT	QUAIL CREEK	106	7	Esbenshade	Archer	492	26-Nov-14
CHESAPEAKE NUTRIENT MANAGEMENT	WALTON WATER SERVICES (SHEETZ #461)	624	1	Esbenshade	Archer	491	26-Nov-14
CHESAPEAKE NUTRIENT MANAGEMENT	TAMARACK MOBILE HOME PARK	-	22	Esbenshade	Archer	490	26-Nov-14
RED BARN	PPL ENERGY PLUS	-	30	535 (Chickies Creek)	Hughes	489	25-Nov-14
HAMPDEN TWP ROTH LANE STP	BENEZETTE TOWNSHIP	-	37		Fox	488	25-Nov-14
NORTHEASTERN YORK CO STP	NEWBERRY TWP GOLDSBORO STP	989	-		Poet	487	25-Nov-14
TEAM AG	MT JOY STP	8,432	-	Brubaker	Frame	485	25-Nov-14
MT CARMEL MUNI SEW COLL SYS & STP	ZERBE TWP MUN AUTH	-	220		Kormaski	484	24-Nov-14
KELLY TWP MUN AUTH	GREGG TWP MUNICIPAL AUTHORITY	-	600		Satteson	483	24-Nov-14
MT CARMEL MUNI SEW COLL SYS & STP	RALPHO TWP MUN AUTH - MAIN STP	-	125		Kormaski	482	21-Nov-14
KULPMONT-MARION HGHTS JT MA	ZERBE TWP MUN AUTH	1,225	-		Mirriello	481	21-Nov-14
SAXTON STP	WILLIAMSBURG STP	-	218		Weitzel	480	21-Nov-14
HAMPDEN TWP ROTH LANE STP	FREEDOM TWP - STP	-	478		Fox	479	21-Nov-14
KELLY TWP MUN AUTH	HUSTONTOWN	-	100		Satteson	478	21-Nov-14
RALPHO TWP MUN AUTH - MAIN STP	NORTHUMBERLAND BORO STP	1,160	-		Zack	477	21-Nov-14
KELLY TWP MUN AUTH	CHAMBERSBURG STP	-	650		Satteson	476	21-Nov-14
WYOMING VLY SAN AUTH	CARGILL	9,100	-		Biga	475	21-Nov-14



2013-2014 Summary

2013-2014	Certified		Verified		Registered	
	N	P	N	P	N	P
WWTF Credits	1,875,934	175,560	1,519,572	86,098	516,531	75,783
Nonpoint Source Ag BMP	299,859	253	106,030	0	94,040	0
Nonpoint Source Manure Hauling	1,547,654	206,444	197,370	24,187	119,331	9,117
NPS Treatment w/Permit	1,720,454	59,315	77,959	241	75,455	251
TOTAL	5,443,901	441,572	1,900,931	110,526	805,357	85,151
TOTAL TRADES	151					



Questions?

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