

Sediment and Nutrient Reduction

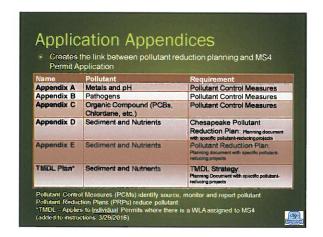
Required for MS4s discharging to waters impaired by sediment (siltation) or nutrients (nitrogen and/or phosphorus) statewide

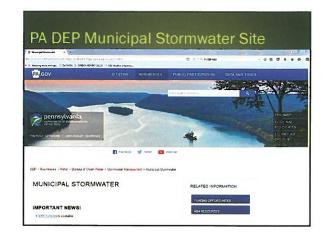
Required for all MS4s located in the Chesapeake Bay Watershed

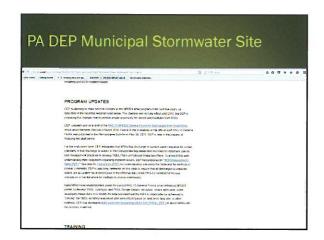
PA DEP Required Pollutant Targets

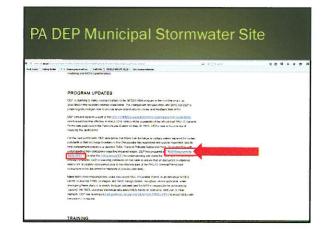
• Sediment Reduction 10%

• Phosphorous Reduction 5%

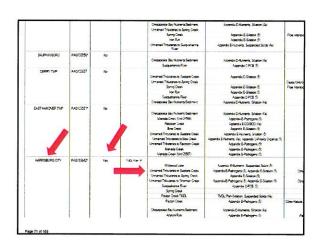




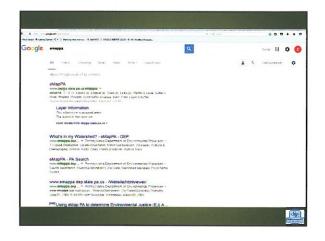


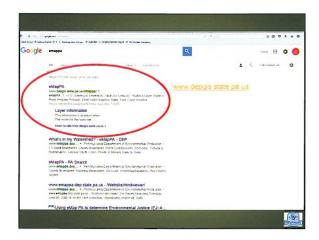






			Checapeale Ser Numeric Sedimens Unnamed Tribuzanec to Spring Cleak Spring Creak Iron Run Unnamed Tribuzanes to Susquehamma River	Acondu E-Namera, Silation (4e) Acondu E-Silation (5) Acondu E-Silation (5) Acondu E-Namera, Sasperded Soldo (4a)	Cause Unincen (5) Row Atlantons Other Habitat Atlantons (4)
FAG133550*	No		Checaceala Bay Numera Sedment Sucqueharra Ruer	Appendix D-Naments, Sitation (As) Appendix C-PCB (5)	
PAG13637	No		Unramed Troutenes to Seattre Creek Unramed Troutenes to Soring Creek Soring Creek Ison Ruin Subouvlance River Obstaceable Ser Munimati Sediment	Appendix E-Gration (5) Appendix E-Gration (5) Appendix E-Gration (5) Appendix E-Gration (5) Appendix O-Warren (5) Appendix O-Warren (5) Appendix O-Warren (5) Appendix O-Warren (5)	Case Unknown S, Water Flori Venaciny Al- Flow Alterstons, Other Habitat Alterstons (4)
FAG(3)55T	No		Checapeale Bay Numerio Sediment Manedo Ones i Unit (1956) Racciono Ceses Espon Ceses Umaned Trabatines to Sestine Crees Umaned Trabatines to Section Crees Umaned Trabatines to Rocciono Clean Manedo Ceses Wanedo Ceses	Accents Crizmens, Station fail fragmas S-Principers (5) Accessed 5-Discott (4) Accessed 5-Discott (4) Accessed 5-Edwards (3) Accessed 5-Edwards (3) Accessed 5-Edwards (3) Accessed 5-Edwards (3) Accessed 5-Edwards (3) Accessed 5-Edwards (3) Accessed 5-Edwards (3)	Fow Atlantons (Atl
PAG133642*	Tel	TOO Par P	Notecot Lele Unramed Telucres to Secons Creal Unramed Telucres to Secons Creal Unramed Telucres to Service Creal Unramed Telucres to Service Creal Secons Creal Secons Creal Paston Creal Description Paston Creal Creat	Accords Effectives Succeeded Jobbs (2) Accords Effectives (3), Accords Effectives (4), Accords Effecti	Other Habasi Albertonis Aci Other Habasi Albertonis Aci Casse Uthinopen (5) Other Habasia Albertonis (Mater Flow Venticity (Aci
- 1			Asytum Run	Appendix B-Pathogens (5)	Water Flow Variability 4d

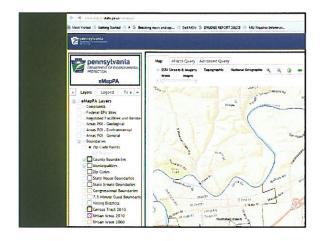


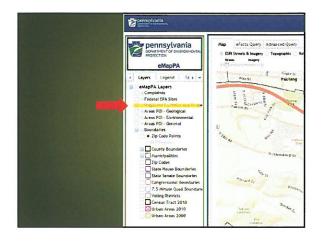


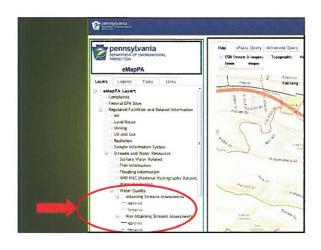


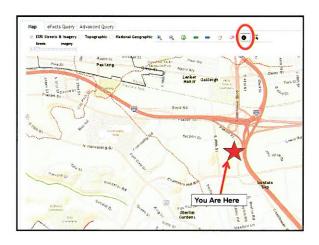


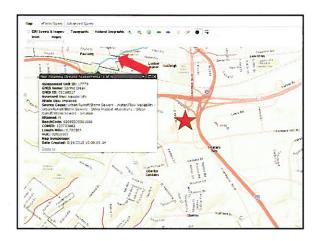


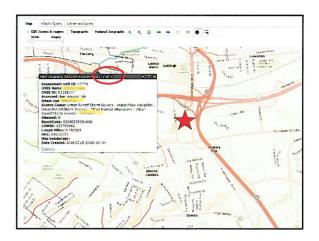


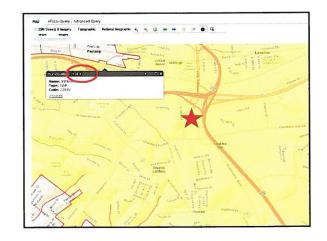


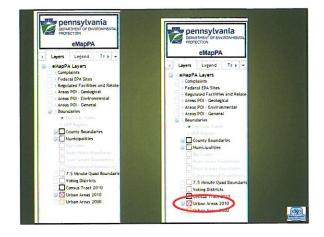


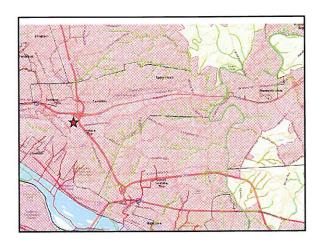




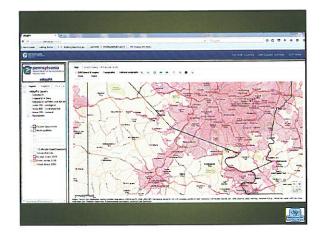


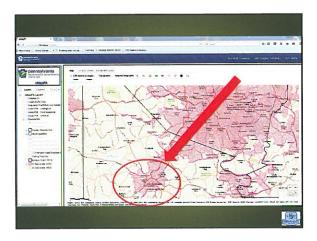


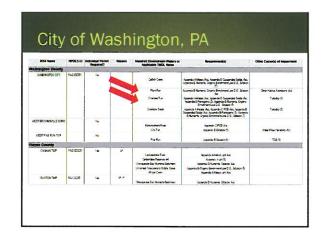


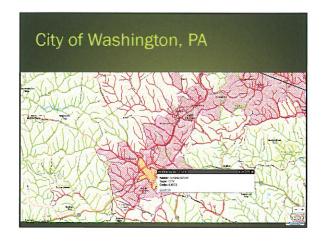


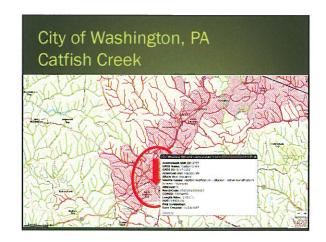


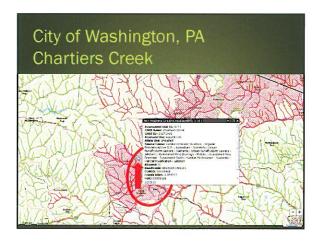


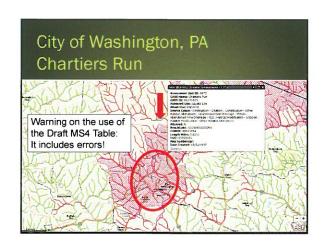


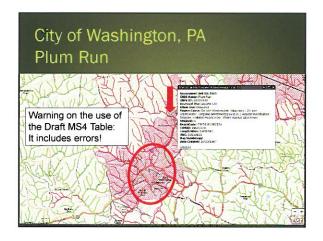


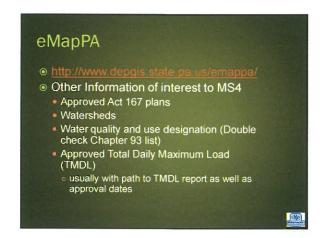






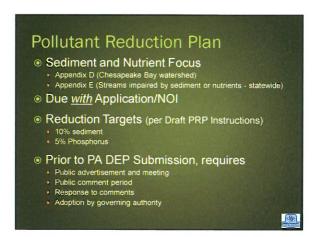


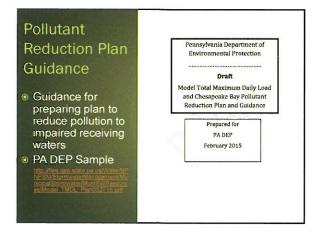


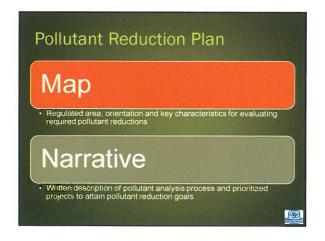


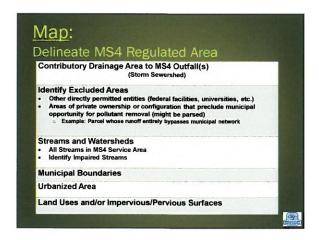


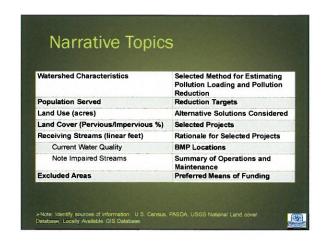


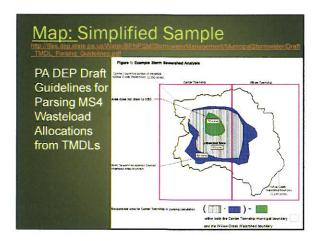










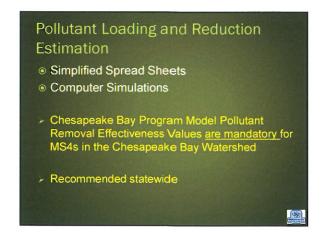


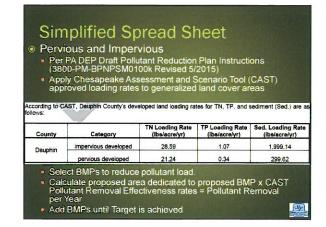
Pollutant Loading and Reduction
Estimation

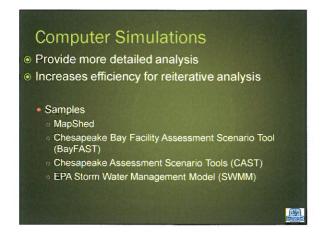
Baseline Pollution Loads

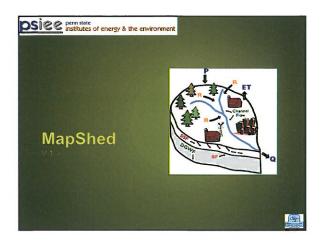
Targets for Sediment and Phosphorus
Reduction
General Scenarios to achieve goals

Selection of Specific BMPs
Locations and price

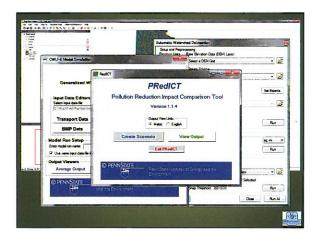




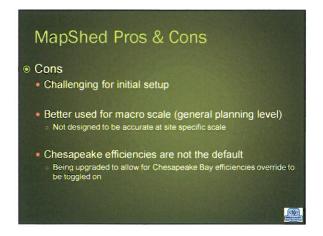






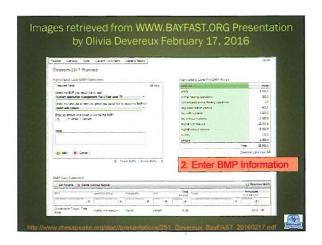


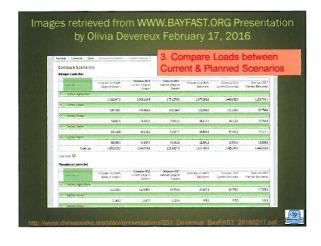






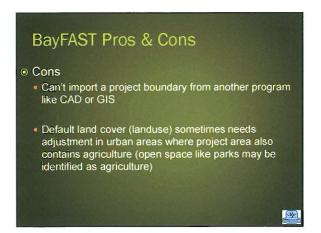


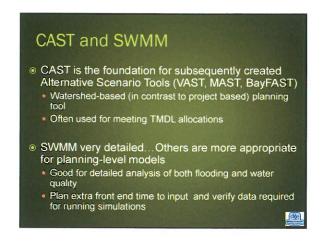


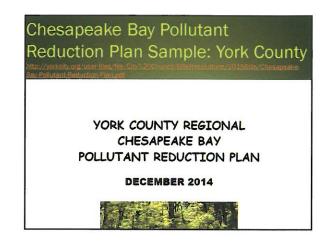


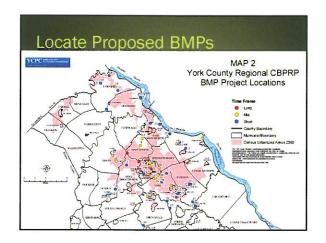
BayFAST Pros & Cons

Pros
Free
Uses Chesapeake Bay Program approved BMPs and efficiencies
Watershed pollutant load data for areas contributory to the Chesapeake Bay
Easy to use...Fast
Good for site specific projects
User defines planning area and proposed land uses
Customizable: Can adjust defaults (land cover & construction estimating unit costs)
Good Support and Training
Frequently updated to improve consistency with other Chesapeake Bay Program approved models and to add features









	Locate & Rank Proposed BMPs													
fire.	7	interestanture	Print Same	Print Type		Language de	-	-	100	17	711.000	free	CMT CMT	I/M Ten
Per	44	Committee of March	Cartried Many I and Gar Hors (partners) Edwards	Tream heat or 1500	Va.emat (36.78542H	1,60	teet	ж	123	1.500,796	-	_	50.04
		THE THEORY WINDS	(CSC) (CSC) (CSC)		1000	1					1000		1000	
NOT.	42	CREAT BARRY	Sandinger Konimera 1	Trees fectivities	15.679833	-3661111	2,000	Int	100		1 0000000		DECOR	50.10
NOT !	4.3	North Robert (MRC)	Capital Inches Europe	Termin fercorrect	PROTEIN ?	- 2651221	1,700	-	420	161	3,500,000	3,50,543	PALLAG.	5811
-	45	Chanceton (falleting) of	and a		10000	1000								
		Long Carren Countries		Street Sentention	29.66.778	-3571663		-	276	9.3	146,000	● 0 000	1 MEZE	20.00
			Mill Cried yang SPL Street Sec.	Street Sentration	77. MITSE	(5.68 8 1.8	1.650	(975	-80	151	197,911	133,548		20.50
~		Fork Township	facilities detached for	Street feetration GPI 5.1	19 (807)35	JE AUXNE	EL ODG	lest.	13,400	4284	3,417,750		SAUGE	52.92
NJ.		Sarberm Committee		Street Reduction	NA MORTO	76.1417.0	1,586	(max)	775	738	(MILES	187.829	5162 914	- 10 vs
		te mon lineway	W/ 6	Street feet traited	10 001750	IN PROPERTY.	7,000	ter.	44	134	YOU MOD	108-016		58.96
eq.	43:	Minder Inrough	Shong Creak Rudy	Bream fact / Par 29 can	30 105444	76.529236	5,760	free	1,140	. 454	43.425	143,771	5330188	50.04
101	66	Window Scharge	Laboration in the second of Princip 65	Street Indication	28.00099	-76.562976	500	-	200	10	27.125	27.751	525182	50.06
P.F			Tyler file imagentment	Manager Please of Littlery	79,081926	74.754047	1,799	laut	61	1.00	97,179	97.660	141.014	55 m
м.	GE.	Total Township	Guerra and improvements	troom restoration	27.163273	-75.67117	4.61	feet	191	130	X1547	264.642	1211499	10.94
Did	97	NAT makes	Sergelan Purk	Brown Santoration	20 (8310)	J4.7609'E	1,054	het	- 31	77	17.259	17371	355355	35.94
est.		for County	NOTE BUILD STREET	Street featuratus	15 987210	78 6 kg 9%	1.154	-	PE	292	200 151	710.73e	1201.668	10.14
4			MED may of Fall (MA)	Street feathering	IN BORGE	340000	1,541	Ares	X+	354	43 06	43,477	140,004	5016
14			Origina Plants	Street Concerno	39396714	25 MICHE	3,934	beet.	1,667	140	277,528	773,642	\$263,154	34 M
~			Af with the	Brown factor clan	15.978706	16.75758	7,560	test	52.1	194	(55,155	153,922	2145475	50.00
~		Olympian.	New House from	Wrom her instead	19.907900	JR 1135/R	4.326	-	44	794	154 144		1215 FAS	15 14
Ŋ		(Pysit but	(Albin Sales Mannering Place)	Irwa between	19 (Fault	Julijaan	1 900	Name .	1.78	3.90	42119	425,240		33:14
200	_	Consulate Founds	Come to among Community Come or and	Street Anglaration	46 (Bott2)	HE THERE	Ø,190	1945	1)),451	4541		E414.218	33,504,914	30.94
tel.	14	Down Foundin	Later Park	Brown Rescription	10 HM054	38.09.0075	1,24	feet	251	15	67201	64,146	548 100	10.16
7	33		SSIN Character States	Brigan Spotorphica	60 (B) (B)	26.210115	650	(max)	187	43	17,543	17 141	135.007	50.94
~	18	Manches or Engineers Manches or Transition	Continued Cont	English Status after	60 (P2014)	75.6447.70	1,750	- feet	P(1)	179	34,113	95,807	191.46)	50 64
10		Labora Saraha	We was the reserved from	Brian festigrasia			\$2,100	Avet	2,304	73.0	747,625	172,619		0 Ne
4	-	Carrier Countries	tour Pas	Bream Apploration	40-250000 46-35000	14 HOOR	1,300	Test	36	EX.	75,513	10,07	141342	50:14
	12	Leadshare Sweep's	18 South less Street	Street Spinster	46 80000	28 7500 W		(mail	18	116	97,743	97 681	185547	10.50
10	24	Coton Service	Programme law	Ir me betrate	11 61 62	2534352	1.7%	(mer	-	1.00	107 ma	106.457	1204.005	50.14
74	62	Streether Tende	Cor Crass veta Cra	Trace fuel / cles	10 (7)310	20.00	9%	200	60	103	11.140	11,722	345451	10.98
	40	lamo i nente	W) q	Wash bedirates	14 (477)	16.877018	1.00	-	200		16 (30	54.518	157.756	12.44
***		& Marchaelle Dephases	Surroy Page	Service and an arrange of the last of the	28 168754	-31 to 50%	75	are treated	(2)	- 1	1.722	1.637	55,000	53.45
50	14	formatived to wrome	Name Court's Park	Trans testorative	19 18 1911	26.729776	1.500	Name	100	107	81.179	21 TO	1200,000	12.65
74		for founds	further are the street from	Wronger Continue Com. 17	11 (6011)	J# 47830	4.70	100	1150	1 10	125A50		11.111.50	12 Po
4	58	And go Township	Cas makes &s	Street feet trains	40 (857)	-75.32557M	16	Speed	14	- 1	4 3-95	4,340	121.00	53.44
×	.0.	resiments	Sale Prepar Wall content from	Brown Setterston (*)	15.00075	75 e212 x	9 /70	1967	1.74	195	674.630		12 157 202	2459
-		1. Mancheshar Township	15 dt Crain Spring Ibrah	Mountain to red buffer	49.001189	28.714110	6.7	MF FR		- 0	10	42	2012	0.57
nort.		1 Manchest or Enamelie	Premium Food	Nowther French Set for	10 0 1710	-24449140	201	82.75	- 5	- 0	-		(14	18.83
	79	Manager Countries	Cart for all	English (pres lutter	en through	79.634770	0.5	10775	75		112	199	\$1304	14.65

Time Line	Proj	Jurisdiction Party	Project Name	Project Type			
Short	44	Codorus/Springfie d (ARRC)	Cwiklinski Phase II and Glen Rock Upstrea Extension	Stream Restoration			
Short	42	York Township/ No- Hopewell (ARRC)	Barshinger Run-Innerest	Sream Restoration			
Short	43	North Hopewell ARRC)	Zeigler Horse Farm	Stream Restoration			
Short	45	Responsible	Pine Run	Stream Restoration Stream Restoration Stream Restoration-GP1 & 3			
Mid	63	c ·	Mill Creek near Mt. Rose Ave				
Long	73	Party	Barshinger Watershed Ren.				
Mid	61	Jackson Township	Type of Proje	testoration			
Mid	59	Jackson Township	BMP#1 Type of Proje	testoration			
Long	65	Windsor Borough	Fishing Creek Study	Stream Rest./ Park Improv.			
Short	66	Windsor Borough	Fishing Creek Study-Subset of Proj ID 65	Stream Restoration			
Mid	67	York Township	Tyler Run Impoundment	Stream Restoration			
Mid	68	York Township	Queenswood improvements	Stream Restoration			
Mid	69	York Township	Snyder Park	Stream Restoration			
Mid	70	York Township	North Walnut Street	Stream Restoration			
Mid	71	York Township	Mill Creek @ Red Lion	Stream Restoration			
Mid	72	York Township	Orrens Park	Stream Restoration			
Long	46	City of York	UNT Willis Run	Stream Restoration			
Long	47	City of York	Poor House Run	Stream Restoration			
Mid	40	City of York	Stillie Run Momorial Back	Stream Restoration			

Latitude	Longitude	Measure	Unit	TN (lbs)	TP (lbs)	TSS (lbs)	Total Pollutant	MUNI/ CWP Cost	S/lb. Tota Pollutan	
39.805452	-76.745026	1,800	feet	360	122	3,500,790	3,501,372	5219,480	50.06	
-	A									
39.870833	-76.661111	2,000	feet	400	136	3,000,000	3,000,53	\$296,000	\$0.10	
39.851667	76.651111	2,100	feet	420	143	3,500,000	3,500,563	5441,846	\$0.13	
39.867778	Spec	ific Loc	ation	270	92	860,000	86,000	\$348,088	50.40	
39.960966	· PO-ONUTEO	2,730	legs	400	400	122.012	3,569	578,396	\$0.59	
39.880789	-76.628200	63,000	feet	Cos	st Es	timate	34,634	\$3,150,000	\$0.92	
39.903666	-76.841213	3,500	feet	700	238	189,875	190,813	\$182,924	\$0.96	
39.891780	-76.859460	2,000	feet	400	136	108,500	109,036	\$104,528	\$0.96	
39.915646	-76.579213	6,700	feet	1,340	456	363,475	365,271	\$350,169	\$0.96	
39.915699	-76.582016	500	feet	100	34	27,125	27.259	\$26.132	\$0.96	
39.931928	-76.708007	1,795	feet	359	122	97,379	97,860	593,814	\$0.96	
39.941253	-76.691979	4,858	feet	972	330	263,547	264,848	\$253,899	\$0.96	
39.933387	-76.700970	1,056	feet	211	72	57,288	57,571	\$55,191	50.96	
39.907280	-76.646950	3.854	feet	771	262	209,101	210,134	\$201,446	\$0.96	
39.900500	-76.620680	1,531	feet	306	104	83,067	83,477	\$80,026	\$0.96	
39.936736	-76.680460	5,016	feet	1,003	341	272,118	273,462	\$262,156	\$0.96	
39.978700	-76.757900	2.860	feet	572	194	155,155	155,921	\$149,475	50.96	

