

Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC		-		Sampling Point: W-6 UPL
Investigator(s): CV, JL				
Landform (hillslope, terrace, etc.): Valley				Slope (%): 2-4
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Gilpin silt loam, 3 to 8 p				
Are climatic / hydrologic conditions on the site ty				
Are Vegetation, Soil, or Hydrolog				
Are Vegetation, Soil, or Hydrolog				
SUMMARY OF FINDINGS – Attach				
		<b>9</b> F		-, <b>,</b>
	No	Is the Sampled Area		
	No No	within a Wetland?	Yes	No
Devente		Mata a Tour		
Cowardin Code: UPLAND	HGM:	Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required	d; check all that apply)		Surface Soil	
Surface Water (A1)	True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od			atterns (B10)
Saturation (A3)	Oxidized Rhizospher		Moss Trim L	
Water Marks (B1)	Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Bur	rrows (C8)
Drift Deposits (B3)	Thin Muck Surface (0	27)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)				Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aqu	
Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutra	l Test (D5)
Field Observations:	<b>4</b>			
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	lydrology Prese	nt? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:				

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Microstegium verminium

Woody Vine <u>Stratum</u> (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_

2. Phleum pratense

4. Trifolium pretense

5. Plantago major

6. Trifolium repens

1. Echinochloa crus-galli

\_\_\_)

50% of total cover: \_\_\_0

% Cover Species? Status

= Total Cover

0 = Total Cover

5

10

20\_\_\_

100 = Total Cover

0 = Total Cover

15

50% of total cover: \_\_\_\_\_\_ 20% of total cover:\_\_\_\_ 20

50% of total cover: 0 20% of total cover:

20% of total cover:\_ 0

FAC

FACU

**FACU** 

**FACU** 

**FACU** 

FACU

50% of total cover: 0 20% of total cover: 0

	Sampling Pol	nt: W-6 UPI					
	Dominance Test worksheet:						
ı	Number of Dominant Species That Are OBL, FACW, or FAC:	1	(A)				
1	Total Number of Dominant Species Across All Strata:	3	(B)				
	Percent of Dominant Species That Are OBL, FACW, or FAC:	33%	(A/B)				
-	Prevalence Index worksheet:						
-	Total % Cover of:	Multiply by:					
	OBL species x						
-	FACW species x						
	FAC species x						
-		4 =					
-	UPL species x						
-	Column Totals: (A						
-	Coldinii Totals(A		(D)				
-	Prevalence Index = B/A =						
-	Hydrophytic Vegetation Indica	tors:					
-	1 - Rapid Test for Hydrophyt	ic Vegetation	1				
-	2 - Dominance Test is >50%						
-	3 - Prevalence Index is ≤3.0 <sup>1</sup>						
	4 - Morphological Adaptations <sup>1</sup> (Provide supporting						
-	data in Remarks or on a separate sheet)						
	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)						
-			,				
1	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p	and hydrolog roblematic.	y must				
-	Definitions of Four Vegetation	Strata:					
1	Tree – Woody plants, excluding more in diameter at breast heigh	vines, 3 in. (7 t (DBH), rega	'.6 cm) or				
1	height.						
	Sapling/Shrub – Woody plants, than 3 in. DBH and greater than m) tall.						
	<b>Herb</b> – All herbaceous (non-woo of size, and woody plants less th						
1	<b>Woody vine</b> – All woody vines g height.	reater than 3	.28 ft in				
-							
-							
-	Hydrophytic						
-	Vegetation Present? Yes	No	_				

Remarks: (Include photo numbers here or on a separate sheet.)

Depth	Matrix	o the depth i	needed to document the in Redox Features		tile absence	or maioute	,,,,	
(inches)	Color (moist)		Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	<b>3</b>
0-12	7.5Y4/2	100			SIL			
12+							Refus	al
_								
						-		
				<del></del>		-		
Type: C-Cc	ncentration D-Deni	etion RM-Re	educed Matrix, MS=Masked	Sand Grains	<sup>2</sup> Location: F	Pl –Pore Lini	na M–Matrix	,
ydric Soil I		elion, min-m	educed Matrix, MO-Masked	Sand Grains.				lydric Soils³:
_ Histosol			Dark Surface (S7)				410) <b>(MLRA</b>	-
	ipedon (A2)	•	Polyvalue Below Surfac	e (S8) <b>(MLRA 147</b> .		•	Redox (A16	•
Black His		•	Thin Dark Surface (S9)		, `	(MLRA 14		• •
	n Sulfide (A4)		Loamy Gleyed Matrix (F		F		odplain Soils	s (F19)
	Layers (A5)		Depleted Matrix (F3)	,		(MLRA 13		,
	ck (A10) (LRR N)		Redox Dark Surface (F6	5)	\	ery Shallow	Dark Surfac	ce (TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface		(	Other (Expla	in in Remark	s)
	rk Surface (A12)	,	Redox Depressions (F8					
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masse	s (F12) <b>(LRR N,</b>				
	147, 148)		MLRA 136)	#LD # 400 400\	3,	Partage of be	ada a a la affa a ca	and the Common district
	leyed Matrix (S4)		Umbric Surface (F13) (N					egetation and
	edox (S5) Matrix (S6)		<ul><li>Piedmont Floodplain So</li><li>Red Parent Material (F2</li></ul>				logy must be ed or probler	
	ayer (if observed):		Neu Falent Material (F2	. 1) (WILKA 127, 147	) ui	iless distuib	ed of problet	nauc.
	mpacted Soil							
	ches): 12+		_		Hardela Cal	I Dunnam40	Vaa	No. V
	cnes): 121		=		Hydric Soi	Present?	Yes	No
Remarks:								

Project/Site: Kensington	City/C	County: Columbiana		Sampling Date: 08/19/19	
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-7	
Investigator(s): CV, JL Section, Township, Range: S27 T14N R4W					
Landform (hillslope, terrace, etc.): Hillslope	Local rel	ief (concave, convex, no	<sub>ne):</sub> Concave	Slope (%): 2-4	
Subregion (LRR or MLRA): LRRN					
Soil Map Unit Name: Gilpin silt loam, 3 to 8 pe					
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	′es No	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrolog	y significantly distur	bed? Are "Norma	I Circumstances" p	resent? Yes No	
Are Vegetation, Soil, or Hydrolog					
SUMMARY OF FINDINGS – Attach s					
Lindranhutia Vagatatian Brasant?	✓ No				
	No No	Is the Sampled Area			
Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No	
Remarks: Cowardin Code: PEM		Water Type:	RD\\/\\/NI		
In active cow pasture.	Troill Giopo				
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	tors (minimum of two required)	
Primary Indicators (minimum of one is required	: check all that apply)		Surface Soil (	<del></del>	
Surface Water (A1)	True Aquatic Plants (	B14)		jetated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Od		✓ Drainage Pat		
Saturation (A3)	_ · · · · · · · · · · · · · · · · · · ·				
Water Marks (B1)	Presence of Reduced	= : : :	Moss Trim Lii Dry-Season V	Water Table (C2)	
Sediment Deposits (B2)					
Drift Deposits (B3)	Thin Muck Surface (0	C7)	Saturation Vis	sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Rer	marks)	Stunted or St	ressed Plants (D1)	
Iron Deposits (B5)			Geomorphic l	Position (D2)	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	tard (D3)	
Water-Stained Leaves (B9)				phic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)	
Field Observations:	•				
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	Hydrology Presen	t? Yes <u>/</u> No	
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	evious inspections), if ava	ailable:		
Remarks:					

Sampling Point: W-7

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	3	(A)
2			. <u> </u>	Total Number of Deminent		
3				Total Number of Dominant Species Across All Strata:	3	(B)
4				Species / toroco / tir Girata.		(5)
				Percent of Dominant Species	1000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				Prevalence Index worksheet:		
7					Maritim Ira harr	
		= Total Cov		Total % Cover of:		
50% of total cover:0	20% of	total cover	<u> </u>	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1				FAC species x :	3 =	_
				FACU species x	4 =	
2				UPL species x :		
3				· ———		
4			. <del></del>	Column Totals: (A)	, <u> </u>	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicat		_
7						
8				1 - Rapid Test for Hydrophyt		
9		-		✓ 2 - Dominance Test is >50%		
9	_	Tatal Car		3 - Prevalence Index is ≤3.0 <sup>1</sup>	1	
50% of total cover: 0		= Total Cov		4 - Morphological Adaptation	ıs <sup>1</sup> (Provide sup	porting
E!	20% 01	total cover		data in Remarks or on a s	separate sheet)	
Herb Stratum (Flot Size)	0.5		OBL	Problematic Hydrophytic Veg	getation <sup>1</sup> (Expla	in)
1. Scirpus atrovens	35				, , , ,	,
2. Echinochloa crus-galli	25		FAC	1 Indicators of budgie soil and wat	land budralagu.	nat
3. Persicaria pennsylvanica	20		FACW	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p		nust
4. Juncus effusus	10		FACW	Definitions of Four Vegetation		
<sub>5.</sub> Phleum pratense	5		FACU	Deminions of Four Vegetation	Otrata.	
6 Leersia ozoides	5		OBL	Tree – Woody plants, excluding		
7			·	more in diameter at breast height height.	t (DBH), regardl	ess of
7				neight.		
8				Sapling/Shrub – Woody plants,		
9			· <del></del>	than 3 in. DBH and greater than	or equal to 3.28	ft (1
10		-		m) tall.		
11			. <u> </u>	Herb – All herbaceous (non-woo	dy) plants, rega	rdless
	100	= Total Cov	er er	of size, and woody plants less that		
50% of total cover: 50	20% of	total cover	20	Mandania Allumadu ina an	tth 2 OC	£4 :
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines go height.	reater than 3.28	πın
1						
2						
			·			
3			· ——			
4				Hydrophytic		
5	^			Vegetation Present? Yes	No	
		= Total Cov	_	riesent: ies	NO	
50% of total cover: 0		total cover	. 0			
Remarks: (Include photo numbers here or on a separate sl	heet.)					

Depth inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-12	7.5YR 4/2	70	2.5YR 5/2	30	С	M/PL	SiCl		Itemans	
	7.511(4/2		2.511( 3/2		<u> </u>			-		
12+									Refus	al
					-					
					-					
	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand G	rains.	<sup>2</sup> Location: Pl			
	ndicators:									ydric Soils <sup>3</sup> :
Histosol	, ,		Dark Surface						A10) <b>(MLRA</b>	
	ipedon (A2)		Polyvalue Be				<b>148)</b> C		Redox (A16)	)
Black His			Thin Dark Su	, ,	•	147, 148)	_	(MLRA 14	•	(540)
	n Sulfide (A4)		Loamy Gleye		-2)		P		oodplain Soils	s (F19)
	Layers (A5) ck (A10) <b>(LRR N)</b>		Depleted Ma Redox Dark		3)		\/	(MLRA 13	v Dark Surfac	o (TE12)
	Below Dark Surface	(A11)	Depleted Dai						in in Remarks	
	rk Surface (A12)	, (, , , , ,	Redox Depre					tiloi (Explo	iii iii rtomant	٥,
	ucky Mineral (S1) (L	RR N,	Iron-Mangan			(LRR N,				
	. 147, 148)	·	MLRA 13		` ,	•				
_ Sandy G	leyed Matrix (S4)		Umbric Surfa	ace (F13) (N	MLRA 1	36, 122)	<sup>3</sup> Ind	icators of h	ydrophytic ve	getation and
_ Sandy R	edox (S5)		Piedmont Flo	oodplain So	ils (F19)	(MLRA 14	<b>8)</b> we	tland hydro	logy must be	present,
	Matrix (S6)		Red Parent N	Material (F2	21) <b>(MLF</b>	RA 127, 147	) unl	ess disturb	ed or problen	natic.
	ayer (if observed):									
, ·	mpacted Soil									
Depth (inc	:hes): <u>12</u> +						Hydric Soil	Present?	Yes	No
emarks:							1			

# **Wetland Photograph Page**

Wetland ID W-7 Cowardin Code PEM Date 08/19/19



Photograph Number <u>25</u>
Photograph Direction NE

Comments:



Photograph Number <u>26</u>
Photograph Direction South

Comments:



Photograph Number 27
Photograph Direction NW

Comments:



Photograph Number 28
Photograph Direction SE

Comments:



Project/Site: Kensington	City/County	<sub>/:</sub> Columbiana	Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC		State: PA	
		ownship, Range: S27 T14N R4	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (co	oncave, convex, none): Convex	Slope (%): 2-4
Subregion (LRR or MLRA): LRRN			
Soil Map Unit Name: Gilpin silt loam, 3 to 8 per		NWI class	
Are climatic / hydrologic conditions on the site typi			
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach si			
Hydrophytic Vegetation Present? Yes	No_ V		
	No 🗸	ne Sampled Area nin a Wetland? Yes	No <u>✓</u>
	No 🗸	iii a wellaliu?	NO
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface S	soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely \	Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C	-	Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on		n Lines (B16)
Water Marks (B1)	Presence of Reduced Iron		on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in T		Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks		r Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)			hic Position (D2) quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neut	
Field Observations:			
	Depth (inches):		
	Depth (inches):		
	Depth (inches):		sent? Yes No_ 🗸
(includes capillary fringe)  Describe Recorded Data (stream gauge, monito)	, , ,		
December Necestada Data (etream gaage, membe	mig won, donar priotos, proviodo	mopositio), ii availabio.	
Remarks:			

Sampling Point: W-7 UPL

Tree Stratum (Plot size: 30' )	Absolute	Dominant		Dominance Test worksheet:		
TICC Stratum (Flot Size.	% Cover	Species?	<u>Status</u>	Number of Dominant Species	1	(4)
1		-		That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	0	
3		-		Species Across All Strata:	3	(B)
4				Percent of Dominant Species	000/	
5				That Are OBL, FACW, or FAC:	33%	(A/B)
6		-		Prevalence Index worksheet:		
7	0 -			Total % Cover of: Mu	ultiply by:	
50% of total cover: 0		= Total Cov		OBL species x 1 =		
Sapling/Shrub Stratum (Plot size: 15' )	20% 01	iolai cover		FACW species x 2 =		
				FAC species x 3 =		
1			· ——	FACU species x 4 =		
2			· ——	UPL species x 5 =		
3				Column Totals: (A)		
4				( )		_ (-)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicators	:	
7				1 - Rapid Test for Hydrophytic Ve	egetation	
8				2 - Dominance Test is >50%		
9	_	Tatal Car		3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover: 0		= Total Cov total cover		4 - Morphological Adaptations <sup>1</sup> (F	Provide supp	orting
Herb Stratum (Plot size: 5' )	20 /0 01	total cover		data in Remarks or on a sepa	arate sheet)	
1. Echinochloa crus-galli	30	~	FACU	Problematic Hydrophytic Vegeta	tion¹ (Explair	n)
2. Phleum pratense	20	~	FAC			
3. Microstegium verminium	5		FAC	<sup>1</sup> Indicators of hydric soil and wetland		ust
4. Trifolium pretense	15		FACU	be present, unless disturbed or proble		
5. Plantago major	10		FACU	Definitions of Four Vegetation Stra	ıta:	
6. Trifolium repens	20	~	FACU	Tree - Woody plants, excluding vines		
7		-		more in diameter at breast height (DE height.	3H), regardle	ess of
8				neight.		
9.			· <del></del>	Sapling/Shrub – Woody plants, excl than 3 in. DBH and greater than or ed		
10			· <del></del>	m) tall.	quai 10 3.20 i	11 (1
11.			· <del></del>	, in the second		.
	100 -	= Total Cov	er	<b>Herb</b> – All herbaceous (non-woody) pof size, and woody plants less than 3		dless
50% of total cover:50	20% of	total cover	20			
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greate height.	er than 3.28 i	ft in
1				g		
2						
3						
4			. <u></u>	Hydrophytic		
5				Vegetation		
	0	= Total Cov	er	Present? Yes No	o <u> </u>	
50% of total cover: 0	20% of	total cover	. 0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Histosol (A1) Polyvalue Below Surface (S8) (MLRA 147, 148) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Dark Surface (S7) Polyvalue Below Surface (S8) (MLRA 147, 148) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Piedmont Flo (MLRA 13) Very Shallow Depleted Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136)	oblematic Hydric Soils <sup>3</sup> : x10) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19)
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Indicators for Pr Histosol (A1) Histic Spipedon (A2) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Strattiffed Layers (A5) Depleted Matrix (F3) Competed Below Dark Surface (A11) Thick Dark Surface (A12) Redox Dark Surface (F6) Very Shallow Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Redox Depressions (F8) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) MLRA 147, 148) MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) Wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) Wetstrictive Layer (if observed): Type: Compaction Depth (inches): 12+  Hydric Soil Present?	ng, M=Matrix.  oblematic Hydric Soils <sup>3</sup> :  10) (MLRA 147)  Redox (A16)  7, 148)  odplain Soils (F19)  5, 147)  Dark Surface (TF12)  n in Remarks)
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    Post	ng, M=Matrix.  oblematic Hydric Soils <sup>3</sup> :  10) (MLRA 147)  Redox (A16)  7, 148)  odplain Soils (F19)  5, 147)  Dark Surface (TF12)  n in Remarks)
Histosol (A1) Dark Surface (S7) 2 cm Muck (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 14 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Flo Stratified Layers (A5) Depleted Matrix (F3) (MLRA 13 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Expla Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturb  strictive Layer (if observed): Type: Compaction Depth (inches): 12+ Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1)	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1)	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 12+  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Piedmont Floating (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Piedmont Floadplain Soils (F19) (MLRA 148)  Wetland hydro unless disturb throttolic material (F21) (MLRA 127, 147)  Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 12+  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Piedmont Floating (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Piedmont Floadplain Soils (F19) (MLRA 148)  Wetland hydro unless disturb throttolic material (F21) (MLRA 127, 147)  Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1) Dark Surface (S7) 2 cm Muck (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 14 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Flo Stratified Layers (A5) Depleted Matrix (F3) (MLRA 13 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Expla Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturb Instrictive Layer (if observed): Type: Compaction Depth (inches): 12+ Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 12+  Dark Surface (S7)  Dark Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Piedmont Floating (MLRA 147, 148)  MURA 147, 148)  Depleted Matrix (F3)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Redox Depressions (F8)  Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122)  Piedmont Floadplain Soils (F19) (MLRA 148)  Wetland hydro unless disturb throttolic material (F21) (MLRA 127, 147)  Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1)	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
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Histosol (A1) Dark Surface (S7) 2 cm Muck (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 14 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Flo Stratified Layers (A5) Depleted Matrix (F3) (MLRA 13 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Expla Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturb Instrictive Layer (if observed): Type: Compaction Depth (inches): 12+ Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1) Dark Surface (S7) 2 cm Muck (A1) Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 14 Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Flo Stratified Layers (A5) Depleted Matrix (F3) (MLRA 13 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Expla Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Iron-Manganese Masses (F12) (LRR N, MLRA 136, 122) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturb Instrictive Layer (if observed): Type: Compaction Depth (inches): 12+ Hydric Soil Present?	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1)	oblematic Hydric Soils <sup>3</sup> : 110) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Sandy Redox (S5)  Stripped Matrix (S6)  Stripped Matrix (S6)  Depth (inches): 12+  Dark Surface (S7)  Polyvalue Below Surface (S8) (MLRA 147, 148)  Loamy Gleyed Matrix (F2)  Piedmont Flo  (MLRA 147, 148)  Redox Dark Surface (F6)  Depleted Dark Surface (F7)  Depleted Dark Surface (F7)  Nurra 147, 148)  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  Wetland hydro  unless disturb	(10) (MLRA 147) Redox (A16) 7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
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Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 14 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Flog (MLRA 13 147, 148) Piedmont Flog (MLRA 147, 148) Piedmont Flog (MLRA 136, 122) Piedmont Flog (MLRA 136, 122) Piedmont Flog (MLRA 136, 122) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 147, 147) Piedmont Flog (MLRA 147, 147) Piedmont Flog (MLRA 147, 147) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 147, 147) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 148) Piedmont Flog (MLRA 147, 147) Piedmont Flog (MLRA 148) Piedmont Piedmont Piedmont Piedmont Piedmont Piedmont P	7, 148) odplain Soils (F19) 6, 147) Dark Surface (TF12) n in Remarks)
Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Redox Dark Surface (F6) Other (Explain Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 136) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Depth (inches): 12+  Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Depleted Matrix (F3) Nedox Dark Surface (F6) Very Shallow Other (Explain Thick Dark Surface (A12) Nedox Depressions (F8) Nedox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Nedox Depleted Dark Surface (F13) (MLRA 136, 122) Nedox Depressions (F8) Nedox Depressions (F12) (LRR N, MLRA 136, 122) Nedox Depressions (F12) (MLRA 136, 122) Nedox Depressions (F12) (MLRA 136, 122) Nedox Depressions (F13) (MLRA 136,	odplain Soils (F19) <b>5, 147)</b> Dark Surface (TF12) n in Remarks)
2 cm Muck (A10) (LRR N) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): 12+  Redox Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F13) (MLRA 136, 122)	Dark Surface (TF12) n in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Stripped Matrix (S6) Depth (inches): 12+  Depleted Dark Surface (F7) Depleted Dark Surface (F12) (LRR N, MLRA 136)	n in Remarks)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Strictive Layer (if observed): Type: Compaction Depth (inches): 12+  Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Unless disturb	
Sandy Mucky Mineral (S1) (LRR N,  MLRA 147, 148)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Strictive Layer (if observed):  Type: Compaction  Depth (inches): 12+  Iron-Manganese Masses (F12) (LRR N,  MLRA 136)  Umbric Surface (F13) (MLRA 136, 122)  Piedmont Floodplain Soils (F19) (MLRA 148)  wetland hydro  Red Parent Material (F21) (MLRA 127, 147)  unless disturb  Hydric Soil Present?	drophytic vegetation and
MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6)  Strictive Layer (if observed): Type: Compaction Depth (inches): 12+  MLRA 136) Umbric Surface (F13) (MLRA 136, 122) Piedmont Floodplain Soils (F19) (MLRA 148) Red Parent Material (F21) (MLRA 127, 147) Unless disturb Wetland hydro unless disturb Hydric Soil Present?	drophytic vegetation and
	drophytic vegetation and
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydro Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturb estrictive Layer (if observed):  Type: Compaction Depth (inches): 12+ Hydric Soil Present?	drophytic vegetation and
Red Parent Material (F21) (MLRA 127, 147) unless disturb estrictive Layer (if observed):  Type: Compaction  Depth (inches): 12+ Hydric Soil Present?	agy must be present
rype: Compaction  Depth (inches): 12+  Hydric Soil Present?	
Type: Compaction  Depth (inches): 12+ Hydric Soil Present?	ed of problematic.
Depth (inches): 12+ Hydric Soil Present?	
	Yes No
emarks:	Yes No

Project/Site: Kensington	City/Cou	nty: Columbiana		Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC				_ Sampling Point: W-8
	Township, Range: S2	7 T14N R4W		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (	concave, convex, none	e): Concave	Slope (%): 2-4
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Berks channery silt loam,				
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes	<b>✓</b> No (l	f no, explain in Re	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed	l? Are "Normal (	Circumstances" p	resent? Yes V No
Are Vegetation, Soil, or Hydrology				
SUMMARY OF FINDINGS – Attach sit				
Hydrophytic Vegetation Present? Yes	V No			
	No Is	the Sampled Area		
Wetland Hydrology Present? Yes	No w	ithin a Wetland?	Yes	No
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: F	RPWWN	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is required; of	heck all that apply)	_	Surface Soil (	<del>.</del>
Surface Water (A1)	True Aquatic Plants (B14			etated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (		✓ Drainage Pat	
Saturation (A3)	on Living Roots (C3)	Moss Trim Lir		
Water Marks (B1)	Presence of Reduced Iro	on (C4)	Dry-Season V	Vater Table (C2)
Sediment Deposits (B2)				
Drift Deposits (B3)	Thin Muck Surface (C7)	-		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remar	ks) _		ressed Plants (D1)
Iron Deposits (B5)		-	Geomorphic I	
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aquit	
Water-Stained Leaves (B9)		-		phic Relief (D4)
Aquatic Fauna (B13)		<u>-</u>	FAC-Neutral	Test (D5)
Field Observations:	✓ Donath (in all as):			
	Depth (inches):  Depth (inches):			
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches):	Wetland Hy	drology Presen	t? Yes <u>/</u> No
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previo	us inspections), if avail	able:	
Remarks:				

Sampling Point: W-8

201	Absolute	Dominant	Indicator	Dominance Test worksheet:	
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 3	(A)
2				T	
3				Total Number of Dominant Species Across All Strata:  3	(B)
				opedies Adioss Ali Stiata.	(D)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100%	(A/B)
6				Prevalence Index worksheet:	
7					
		= Total Cov		Total % Cover of: Multiply by:	
50% of total cover: 0	20% of	total cover	:0	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	_
1				FAC species x 3 =	_
				FACU species x 4 =	
2				UPL species x 5 =	
3					
4				Column Totals: (A)	(D)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7					
8				1 - Rapid Test for Hydrophytic Vegetation	
				✓ 2 - Dominance Test is >50%	
9	_	T-1-10		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
500/ of total account 0		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide sup	oporting
50% of total cover: 0	20% of	total cover	:	data in Remarks or on a separate sheet	)
Helb Stratum (Flot Size)	0.5	,	ODI	Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	
1. Scirpus atrovens	35		OBL	robiernaderryarepriyae vegetation (Expite	,
2. Echinochloa crus-galli	25		FAC	The disease of budgie on it and westered budgetons.	
3. Phleum pratense	5		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	musi
4. Juncus effusus	10		<b>FACW</b>	Definitions of Four Vegetation Strata:	
5. Leersia ozoides	5		OBL	Definitions of Four Vegetation Strata.	
6. Polygonum persicaria	20		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6	
				more in diameter at breast height (DBH), regard	lless of
7		-		height.	
8				Sapling/Shrub – Woody plants, excluding vines	s, less
9				than 3 in. DBH and greater than or equal to 3.2	8 ft (1
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, rega	ardless
	100 .	= Total Cov	/er	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 50	20% of	total cover	20		o
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines greater than 3.2 height.	B IT IN
1				neight.	
2			-		
		-	· ——		
3			· ——		
4				Hydrophytic	
5				Vegetation	
		= Total Cov	_	Present? Yes No	
50% of total cover:0	20% of	total cover	:0		
Remarks: (Include photo numbers here or on a separate s	heet.)			•	

	cription: (Describe to	o the depth				or confirm	the absence	of indicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Color (moist)	<u>k Feature</u> %	s Type <sup>1</sup>	Loc²	Texture	Remarks
0-12	7.5YR 4/2	<del></del>	2.5YR 5/2	30	C	M/PL	SICL	Nemarks
	7.511(4/2		2.511( 3/2			IVI/I L		
12+								Refusal
					·			
-								
l					-			
l -			_					
					·			
<u> </u>								
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							ators for Problematic Hydric Soils <sup>3</sup> :
Histoso			Dark Surface	. ,				cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		, , .		148) (	Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su			147, 148)	_	(MLRA 147, 148)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mat		F2)			Piedmont Floodplain Soils (F19) (MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark S		<del>-</del> 6)		\	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)	( ,	Redox Depre					(=
	Mucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangane			LRR N,		
MLR	A 147, 148)		MLRA 136	6)				
	Gleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					etland hydrology must be present,
	d Matrix (S6)		Red Parent M	1aterial (F	21) <b>(ML</b> R	A 127, 147	) un	less disturbed or problematic.
	Layer (if observed):							
- · · -	ompacted Soil							
Depth (in	ches): <u>12+</u>						Hydric Soil	Present? Yes V No No
Remarks:							•	

# **Wetland Photograph Page**

Wetland ID W-8 Cowardin Code PEM Date 08/19/19



Photograph Number 29
Photograph Direction South

Comments:



Photograph Number 30

Photograph Direction NE

Comments:



Photograph Number 31

Photograph Direction SE

Comments:



Photograph Number 32

Photograph Direction West

Comments:



Project/Site: Kensington	City/Co	<sub>unty:</sub> Columbiana		Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-8 UPL
	Section			
Landform (hillslope, terrace, etc.): Hillslope	Local relie	f (concave, convex, non	e): Concave	Slope (%): 2-4
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Berks channery silt loan				
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Ye	s <u> </u>	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolog	significantly disturb	ed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrolog				
SUMMARY OF FINDINGS – Attach				
				· ·
	No V	Is the Sampled Area		.,
	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:		
Cowardin Code. OF LAND	TIOW.	water Type.		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odo		Drainage Pat	
Saturation (A3)	Oxidized Rhizospheres		Moss Trim Li	
Water Marks (B1)	Presence of Reduced		-	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Buri	
Drift Deposits (B3)	Thin Muck Surface (C7			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rem	arks)		tressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)			Geomorphic Shallow Aqui	, ,
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	
Field Observations:				
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		ydrology Presen	t? Yes No ✔
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit				
Describe Necorded Data (Stream gauge, morn	oning well, aerial photos, prev	ious irispections), ii avai	iable.	
Remarks:				
Í				

30'

Sapling/Shrub Stratum (Plot size: 15' )

3. Microstegium vimineum

Woody Vine <u>Stratum</u> (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_

4. Trifolium pretense

5. Plantago major

6. Trifolium repens

1. Echinochloa crus-galli 2. Phleum pratense \_\_\_)

50% of total cover: \_\_\_0

% Cover Species? Status

= Total Cover

0 \_ = Total Cover

5

15

50% of total cover: \_\_\_\_\_\_ 20% of total cover:\_\_\_\_ 20

50% of total cover: 0 20% of total cover:

10

20

100 = Total Cover

0 = Total Cover

20% of total cover:\_ 0

FAC

FAC

**FACU** 

**FACU** 

FACU

FACU

50% of total cover: 0 20% of total cover: 0

Sampling	Poin	···_			
Dominance Test worksheet	t:				
Number of Dominant Species That Are OBL, FACW, or FA			1	_	(A)
Total Number of Dominant Species Across All Strata:	-		3	_	(B)
Percent of Dominant Species That Are OBL, FACW, or FA			33%	_	(A/B)
Prevalence Index workshee	et:				
Total % Cover of:		Mu	Itiply by:		
OBL species					
FACW species					
FAC species					
FACU species					
UPL species					
Column Totals:	(A)	-			_ (B)
Prevalence Index = B/A	A = _				•
Hydrophytic Vegetation Inc	licato	ors:			
1 - Rapid Test for Hydro	phytic	: Ve	getation		
2 - Dominance Test is >	-00/				
	50%				
3 - Prevalence Index is ≤					
	≤3.0¹	s¹ (F	Provide su	ממג	ortina
4 - Morphological Adapta	≤3.0 <sup>1</sup> ations				orting
	≦3.0 <sup>1</sup> ations n a se	ера	rate shee	t)	
4 - Morphological Adapta	≦3.0 <sup>1</sup> ations n a se	ера	rate shee	t)	
4 - Morphological Adapta	£3.0 <sup>1</sup> ations n a second veget	epa etat	rate shee ion¹ (Exp hydrology	t) lair	า)
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  Indicators of hydric soil and	£3.0 <sup>1</sup> ations n a see Vege wetla	epa etat nd	rate shee ion¹ (Exp hydrolog) ematic.	t) lair	า)
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  1 Indicators of hydric soil and be present, unless disturbed	e3.0 <sup>1</sup> ations n a se vege wetla or pro ion S	epa etat nd oble <b>stra</b>	rate shee ion <sup>1</sup> (Exp hydrology ematic. ta:	et) lair / m	n) nust cm) or
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  Indicators of hydric soil and be present, unless disturbed  Definitions of Four Vegetat  Tree – Woody plants, exclud more in diameter at breast he	eations ations n a se Vege wetla or pro ion S ing vi eight (	nd obles otra nes (DE	rate shee ion <sup>1</sup> (Exp hydrology ematic. ta: i, 3 in. (7. iH), regar	et) lair / m 6 c	em) or ess of
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  Indicators of hydric soil and be present, unless disturbed  Definitions of Four Vegetat  Tree – Woody plants, exclud more in diameter at breast he height.  Sapling/Shrub – Woody plant than 3 in. DBH and greater the	\$3.0 <sup>1</sup> as to some state of the some state of th	nd oble otra nes (DE xclu	rate shee ion <sup>1</sup> (Exp hydrology ematic. ta: s, 3 in. (7. sH), regar uding vine jual to 3.2	et) lair / m 6 co	em) or ess of less ft (1
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  1 Indicators of hydric soil and be present, unless disturbed  Definitions of Four Vegetat  Tree – Woody plants, exclud more in diameter at breast he height.  Sapling/Shrub – Woody plant than 3 in. DBH and greater them) tall.  Herb – All herbaceous (non-type)	ations at a see wetla or proving vision S in a see wetla or proving vision S in a see whether the see whether	nd oble stra nes (DE xclur eco	rate shee ion <sup>1</sup> (Exp hydrology ematic. ta: s, 3 in. (7. EH), regar uding vine jual to 3.2	et) lair lair 6 co	em) or ess of less ft (1
4 - Morphological Adapta data in Remarks or or Problematic Hydrophytic  1 Indicators of hydric soil and be present, unless disturbed  Definitions of Four Vegetat  Tree – Woody plants, exclud more in diameter at breast he height.  Sapling/Shrub – Woody plant than 3 in. DBH and greater them) tall.  Herb – All herbaceous (nonof size, and woody plants less  Woody vine – All woody vine	ations a see vega wetla or proving vega wetla or proving vega wetla or proving vega wetla or proving vega wetla vega wetl	nd oblestra ness (DE xclur eco	rate shee ion <sup>1</sup> (Exp hydrology ematic. ta: s, 3 in. (7. EH), regar uding vine jual to 3.2	et) lair lair 6 co	em) or ess of less ft (1

Remarks: (Include photo numbers here or on a separate sheet.)

epth	Matrix	0/	Redox Fe		Loc <sup>2</sup>	Touture		Da	ko	
nches)	Color (moist)	<u>%</u>	Color (moist)	% Type <sup>1</sup>	LOC	Texture SICL	-	Remarl	KS	
0-12	7.5Y4/2	100				SICL	-			
12+								Refu	ısal	
	_									
ne: C=Co	ncentration, D=Depl	etion. RM=	Reduced Matrix, MS=M	lasked Sand Gra	ins.	<sup>2</sup> Location: P	I =Pore I ini	ng. M=Mat	rix.	
dric Soil Ir		0.0011, 1.011	rtoddodd Matrix, MC-M	aonoa oana on			ators for Pr			oils³:
Histosol (			Dark Surface (S7	7)			cm Muck (A		-	
-	pedon (A2)		Polyvalue Below		LRA 147,		oast Prairie			
Black His			Thin Dark Surfac			,	(MLRA 14		,	
	Sulfide (A4)		Loamy Gleyed M			P	iedmont Flo		oils (F19)	
Stratified	Layers (A5)		Depleted Matrix (	(F3)			(MLRA 13	6, 147)		
	k (A10) <b>(LRR N)</b>		Redox Dark Surf				ery Shallow		•	2)
	Below Dark Surface	e (A11)	Depleted Dark St			c	ther (Expla	in in Rema	rks)	
	k Surface (A12)		Redox Depression							
	ucky Mineral (S1) (L	.RR N,	Iron-Manganese	Masses (F12) (L	RR N,					
	147, 148)		MLRA 136)	(E40) <b>(MILDA 40</b>	c 400\	31	:			
_ Sandy Gi _ Sandy Re	eyed Matrix (S4)		Umbric Surface ( Piedmont Floodp				icators of hydro		-	
	Matrix (S6)		Red Parent Mate				less disturb			ι,
	ayer (if observed):		Ned Falent Mate	ilai (i Z i) (WLIV	121, 141	, un	iess distuib	ed of probl	emanc.	
	mpaction									
Depth (incl						Usalvia Cail	Dracent?	Vaa	No	~
	ies). <u>12</u>					Hydric Soil	Present?	Yes	NO_	
marks:										

Project/Site: Kensington	City/County: C	olumbiana	Sampling Date: 08/19/19			
Applicant/Owner: Kensington PV I, LLC	State: PA	_				
	Section, Towns					
Landform (hillslope, terrace, etc.):						
Subregion (LRR or MLRA): LRRN	at: 40.664038	Long: -80.903691	Datum: NAD 83			
Soil Map Unit Name: Gilpin-Coshocton silt loams		=				
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes	_ No (If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	'present? Yes No			
Are Vegetation, Soil, or Hydrology _						
SUMMARY OF FINDINGS – Attach site						
Hydrophytic Vegetation Present? Yes	No Is the S					
	/ No	ampled Area	No			
Wetland Hydrology Present?	No Within a	Wetland? Yes	NO			
Remarks: Cowardin Code: PEM	HGM: Slope V	Vater Type: RPWWN				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)			
Primary Indicators (minimum of one is required; ch	eck all that apply)	Surface So				
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)			
High Water Table (A2)						
Saturation (A3)	<ul><li>Oxidized Rhizospheres on Livir</li></ul>	ng Roots (C3) Moss Trim	Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seaso	n Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	Soils (C6) Crayfish Bu	urrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)			
Iron Deposits (B5)			ic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Ac				
Water-Stained Leaves (B9)			raphic Relief (D4)			
Aquatic Fauna (B13)		<u>✓</u> FAC-Neutr	ai Test (D5)			
Field Observations:	/ Donth (inch ac):					
	Depth (inches):  Depth (inches):					
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Pres	ent? Yes V No			
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous insp	pections), if available:				
Remarks:						

Sampling Point: W-9

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	3	(A)
2		-	. <u> </u>	Total Number of Dominant		
3				Species Across All Strata:	3	(B)
4				Species / to see / til Girata.		(-)
				Percent of Dominant Species	100	
5				That Are OBL, FACW, or FAC:	100	(A/B)
6				Prevalence Index worksheet:		
7					Maritim Ira hara	
		= Total Cov		Total % Cover of:		
50% of total cover:0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	
				UPL species x		
3				Column Totals: (A		
4				Column Totals (A	,	_ (b)
5				Prevalence Index = B/A =		
6			. <u> </u>	Hydrophytic Vegetation Indica		
7						
8				1 - Rapid Test for Hydrophyt		
9				✓ 2 - Dominance Test is >50%		
<u> </u>	_	= Total Cov		3 - Prevalence Index is ≤3.0	1	
50% of total cover: 0				4 - Morphological Adaptation	าร <sup>1</sup> (Provide sup	porting
	20% 01	lotal cover		data in Remarks or on a	separate sheet)	
TIEID Stratum (1 lot size.	40	~	FACW	Problematic Hydrophytic Ve	getation <sup>1</sup> (Expla	in)
1. Persicaria hydropiper				_ , , ,		,
2. Echinochloa crus-galli	25		FAC	<sup>1</sup> Indicators of hydric soil and wetl	land hydrology r	nuct
3. Persicaria pensylvanica	20		FACW_	be present, unless disturbed or p		iiusi
4. Rumex cripus	15		FAC	Definitions of Four Vegetation		
5				Deminions of Four Vegetation	Otrata.	
6				Tree – Woody plants, excluding		
				more in diameter at breast heightheight.	t (DBH), regardl	ess of
7				neight.		
8				Sapling/Shrub – Woody plants,		
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10			. <del></del>	m) tall.		
11				Herb - All herbaceous (non-woo	dy) plants, rega	rdless
		= Total Cov		of size, and woody plants less th	an 3.28 ft tall.	
50% of total cover: 50	20% of	total cover	<u>20                                    </u>	Woody vine All woody vines a	rooter than 2 20	ft in
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines g height.	reater than 3.20	)
1				· · · · · · · · · · · · · · · · · · ·	-	
2						
3						
4				Hydrophytic		
5	^			Vegetation Present? Yes	No	
0		= Total Cov	_	Tresent: Tes	. 140	
50% of total cover: 0		total cover	. 0			
Remarks: (Include photo numbers here or on a separate sl	neet.)					

inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features % Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-12	7.5YR4/2	85	2.5YR5/2	15 C		SIL		Remarks	
	7.51114/2		2.51113/2	<u> 13 C</u>					
12+								Refusa	
-									
/pe: C=Co	oncentration, D=Depl	etion. RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: Pl	_=Pore Linir	g. M=Matrix.	
	ndicators:	0	Troudoud Matin, M	····ae···ea ea				blematic Hy	dric Soils <sup>3</sup> :
Histosol			Dark Surface	· (S7)				.10) <b>(MLRA 1</b> 4	
	oipedon (A2)				88) <b>(MLRA 147</b> ,		•	Redox (A16)	,
Black Hi			·	ırface (S9) (ML		=	(MLRA 147		
	n Sulfide (A4)			ed Matrix (F2)	, <b>,</b>	Р		odplain Soils (	F19)
	Layers (A5)		Depleted Ma	, ,			(MLRA 136		,
	ck (A10) (LRR N)		Redox Dark			V		Dark Surface	(TF12)
_ Depleted	Below Dark Surface	e (A11)	Depleted Da	rk Surface (F7)	)	0	ther (Explain	n in Remarks)	
_ Thick Da	rk Surface (A12)		Redox Depre	essions (F8)					
_ Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses (F	12) <b>(LRR N,</b>				
MLRA	147, 148)		MLRA 13	6)					
-	leyed Matrix (S4)			ce (F13) (MLF				drophytic veg	
_ Sandy R	edox (S5)		Piedmont Flo	odplain Soils (	F19) <b>(MLRA 14</b>	<b>8)</b> we	tland hydrol	ogy must be p	resent,
	Matrix (S6)		Red Parent N	//aterial (F21) <b>(</b>	MLRA 127, 147	<b>')</b> unl	ess disturbe	d or problema	atic.
	ayer (if observed):								
Type: CO	mpaction								
Depth (inc	<sub>ches):</sub> 12+					Hydric Soil	Present?	Yes 🗸	No
emarks:									

# **Wetland Photograph Page**

Wetland ID W-9 Cowardin Code PEM Date 08/19/19



Photograph Number 33
Photograph Direction West

Comments:



Photograph Number 34

Photograph Direction NE

Comments:



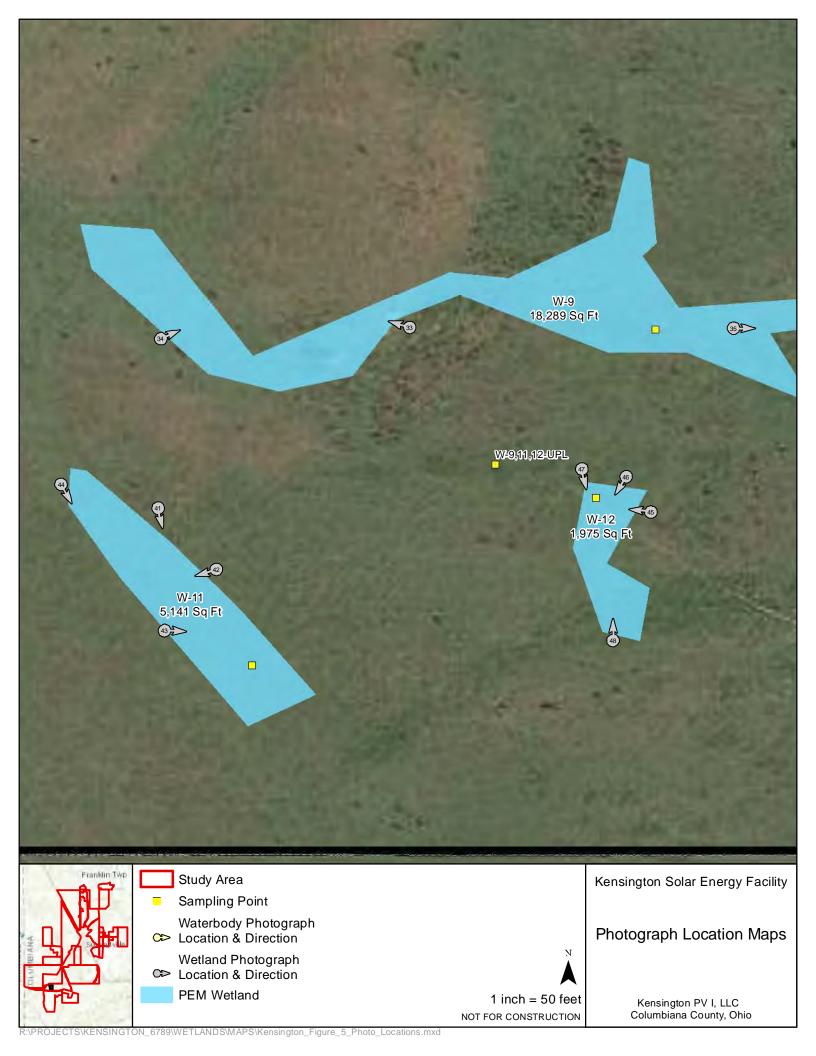
Photograph Number 35
Photograph Direction East

Comments:



Photograph Number 36
Photograph Direction NW

Comments:





Project/Site: Kensington	City/Co	<sub>unty:</sub> Columbiana		Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC	,	<u> </u>		Sampling Point: W-10
	Section	n, Township, Range: S2		
Landform (hillslope, terrace, etc.):				
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Gilpin-Coshocton silt loa				
Are climatic / hydrologic conditions on the site ty				
	-			
Are Vegetation, Soil, or Hydrolog				oresent? Yes No
Are Vegetation, Soil, or Hydrolog			kplain any answe	
SUMMARY OF FINDINGS – Attach s	ite map snowing sam	oling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes _	✓ No	Is the Sampled Area		
Hydric Soil Present? Yes_	/	within a Wetland?	Yes ✓	No
Wetland Hydrology Present? Yes _				
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: F	RPWWN	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	· check all that annly)	<u>-</u>	Surface Soil	•
Surface Water (A1)	True Aquatic Plants (B	14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odo		✓ Drainage Pat	
Saturation (A3)	✓ Oxidized Rhizospheres		Moss Trim Li	
Water Marks (B1)	Presence of Reduced	•		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	· · ·	Crayfish Buri	
Drift Deposits (B3)	Thin Muck Surface (C2		•	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rem			tressed Plants (D1)
Iron Deposits (B5)		, 	Geomorphic	
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)		_		phic Relief (D4)
Aquatic Fauna (B13)		<u>-</u>	✓ FAC-Neutral	Test (D5)
Field Observations:				
	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
Saturation Present? Yes No	Depth (inches):	Wetland Hy	ydrology Presen	it? Yes <u>√</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well serial photos prev	ious inspections) if avail	ahlo:	
Describe Recorded Data (stream gauge, monte	oring well, derial photos, prev	ious irispections), ir avair	abie.	
Remarks:				

'EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-10
201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Number of Dominant Species That Are OBL FACW or FAC: 2 (A)
1		-		That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4 5.				Percent of Dominant Species That Are OBL_FACW_or FAC: 100% (A/B)
				That Are OBL, FACW, or FAC: 100% (A/B)
6		-		Prevalence Index worksheet:
7	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1.				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9.				✓ 2 - Dominance Test is >50%
	0	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Echinochloa crus-galli	50	✓	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Polygonum persicaria	20	✓	FACW	1
3. Rumex crispus	15		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 42.5	20% of	total cover:	1/	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1		-		
2		-		
3				
4				Hydrophytic
5				Vegetation Present? Yes _ ✓ No
50% of total cover: 0		= Total Cov total cover:	_	resent: res_v no
		total cover:		
Remarks: (Include photo numbers here or on a separate s	neet.)			

0-12 12+	Matrix Color (moist)	%	Color (moist)	x Features % Ty	pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
	7.5YR 4/2	85	2.5YR5/2	15 C	M/PL	CL	-	Remarks	
12+	7.511( 4/2		2.51110/2						
								Refusa	
							-		
							-		
							-		
							-		
				<u> </u>					
							•		
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: PL			
	Indicators:							oblematic Hy	
_ Histosol			Dark Surface					10) <b>(MLRA 1</b>	47)
	oipedon (A2)		•		8) <b>(MLRA 147</b> ,	<b>148)</b> C		Redox (A16)	
_ Black Hi				rface (S9) (ML	RA 147, 148)		(MLRA 14		/ <b>-</b> >
	en Sulfide (A4)		Loamy Gleye			Pi		odplain Soils	(F19)
	d Layers (A5)		✓ Depleted Mat			V.	(MLRA 13		(TE10)
	ick (A10) <b>(LRR N)</b> d Below Dark Surface	(Λ11)	Redox Dark S	surface (F6) k Surface (F7)				Dark Surface in in Remarks)	
	ark Surface (A12)	(Д11)	Redox Depre			0	ше (схріаі	ii iii ixeiiiaiks)	1
	lucky Mineral (S1) <b>(L</b>	RR N.	•	ese Masses (F	12) <b>(LRR N</b> .				
-	\ 147, 148)	,	MLRA 13		· = / <b>(=</b> · · · · · · )				
	Gleyed Matrix (S4)			ce (F13) <b>(MLR</b>	A 136, 122)	<sup>3</sup> Indi	cators of hy	ydrophytic veg	etation and
	Redox (S5)				F19) <b>(MLRA 14</b>			logy must be p	
	Matrix (S6)		Red Parent N	Naterial (F21) (	MLRA 127, 147	<b>')</b> unl	ess disturbe	ed or problema	atic.
estrictive l	Layer (if observed):								
туре: <u>С</u> с	ompaction								
Depth (in	ches): 12+					Hydric Soil	Present?	Yes <u>√</u>	No
emarks:									

# **Wetland Photograph Page**

Wetland ID W-10 Cowardin Code PEM Date 08/20/19



Photograph Number 37
Photograph Direction North

Comments:



Photograph Number 38

Photograph Direction NW

Comments:



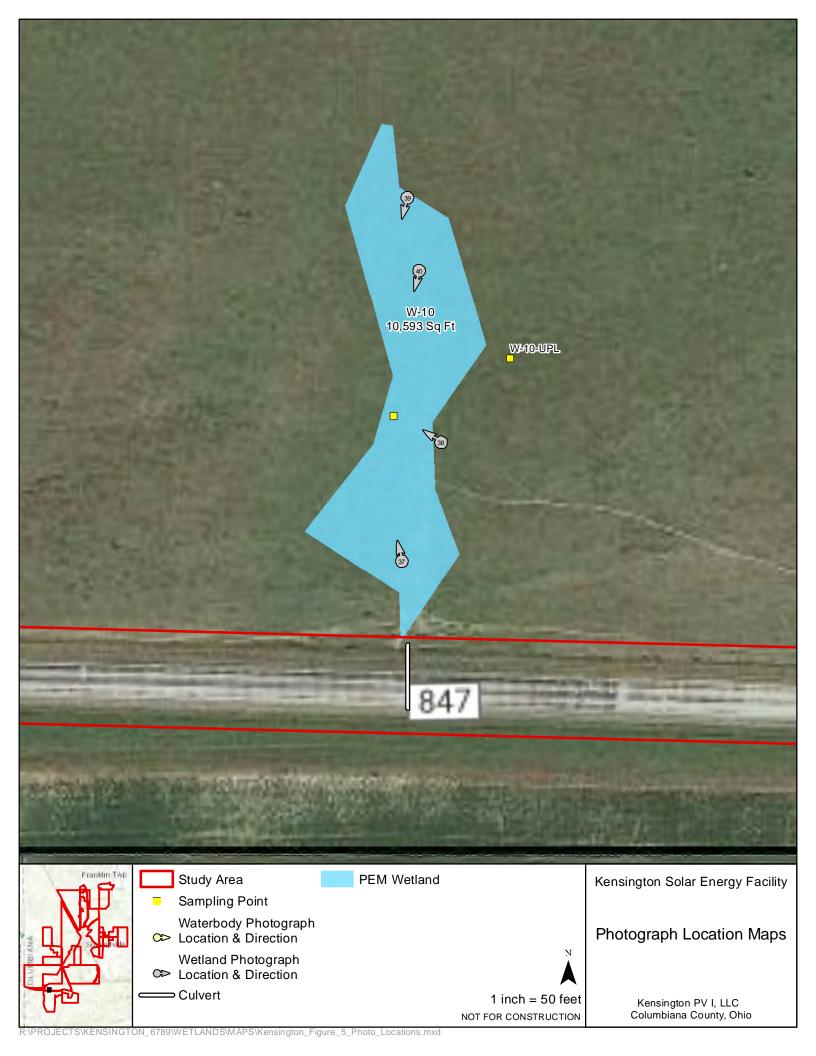
Photograph Number 39
Photograph Direction South

Comments:



Photograph Number 40
Photograph Direction South

Comments:



Project/Site: Kensington	City/C	ounty: Columbiana		Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-10 UPL
	Section			
Landform (hillslope, terrace, etc.): Hillslope	Local reli	ef (concave, convex, non	e): Concave	Slope (%): 2-4
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Gilpin-Coshocton silt loa				
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	es <u>/</u> No (	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolo				
Are Vegetation, Soil, or Hydrolo				
SUMMARY OF FINDINGS – Attach				
			<u> </u>	, ,
	No	Is the Sampled Area		
	No. V	within a Wetland?	Yes	No
		Water Type:		
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	d; check all that apply)		Surface Soil	<del></del>
Surface Water (A1)	True Aquatic Plants (			jetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odd		Drainage Pat	
Saturation (A3)	Oxidized Rhizosphere		Moss Trim Li	
Water Marks (B1)	Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burr	ows (C8)
Drift Deposits (B3)	Thin Muck Surface (C	<b>(7)</b>	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Ren	narks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:	•			
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland H	ydrology Presen	t? Yes No
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if avai	lable:	
Remarks:				

Sampling Point: W-10 UPL

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:		
TICC Stratum (1 lot size.	% Cover			Number of Dominant Species	0	
1			·	That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	0	(A/B)
6						` ,
7				Prevalence Index worksheet:		
	0 .	= Total Cov	er er		Multiply by:	
50% of total cover:0	20% of	total cover	. 0	OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2	· =	_
1				FAC species x 3	=	_
2				FACU species x 4	· =	_
				UPL species x 5	=	
3				Column Totals: (A)		
4				( ,		_ (-,
5				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate	ors:	
7				1 - Rapid Test for Hydrophytic	c Vegetation	
8				2 - Dominance Test is >50%	J	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	= Total Cover			4 - Morphological Adaptations¹ (Provide supporting		
50% of total cover:0	20% of	total cover	0	data in Remarks or on a se		porting
Herb Stratum (Plot size: 5' )					•	
1. Dactylis glomerata	50		FACU	Problematic Hydrophytic Veg	etation (Explai	in)
2. Phleum pratense	40	<b>~</b>	FACU			
3. Trifolium pratense	15		FAC	<sup>1</sup> Indicators of hydric soil and wetla		nust
4				be present, unless disturbed or pr		
				Definitions of Four Vegetation S	strata:	
5				Tree – Woody plants, excluding vi	ines, 3 in. (7.6	cm) or
6				more in diameter at breast height	(DBH), regardl	ess of
7				height.		
8				Sapling/Shrub - Woody plants, e		
9				than 3 in. DBH and greater than o	r equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-wood	y) plants, rega	rdless
	105 .	= Total Cov	er 2.4	of size, and woody plants less tha	n 3.28 ft tall.	
50% of total cover: <u>52.5</u>	20% of	total cover	: 21	Woody vine – All woody vines gre	eater than 3.28	tft in
Woody Vine Stratum (Plot size: 15' )				height.		
1						
2						
3						
4				Lhadronbatio		
5				Hydrophytic Vegetation		
		= Total Cov	er	Present? Yes	No	
50% of total cover: 0		total cover	_			
Remarks: (Include photo numbers here or on a separate s				<u> </u>		
, in the same of the same of the same of	/					

Depth	Matrix		needed to document the indicat Redox Features			<b>,</b>
(inches)	Color (moist)	%	Color (moist) % Type		exture	Remarks
0-12	10YR 4/4	100			SICL	
12+						Refusal
					<del></del>	
					<del></del>	
Type: C-Cc	ncentration D-Deni	etion RM-Re	educed Matrix, MS=Masked Sand	Grains <sup>2</sup> Loc	ation: PL=Pore Lin	ning M-Matrix
ydric Soil I		euon, min-m	educed Matrix, MO-Masked Sarid	Grains. Loc		Problematic Hydric Soils <sup>3</sup> :
_ Histosol			Dark Surface (S7)			(A10) <b>(MLRA 147)</b>
	ipedon (A2)		Polyvalue Below Surface (S8)	(MLRA 147, 148)		e Redox (A16)
Black His			Thin Dark Surface (S9) (MLR	•	(MLRA 1	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	, -,		loodplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 1	
	ck (A10) (LRR N)		Redox Dark Surface (F6)			w Dark Surface (TF12)
_	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Other (Expla	ain in Remarks)
	rk Surface (A12)		Redox Depressions (F8)			
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12	2) <b>(LRR N,</b>		
	147, 148)		MLRA 136)	400 400\	31 12 1 1	da.abCaaa.taCa.aa.ad
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA			hydrophytic vegetation and
-	edox (S5) Matrix (S6)		<ul><li>Piedmont Floodplain Soils (F1</li><li>Red Parent Material (F21) (M</li></ul>			ology must be present, bed or problematic.
	ayer (if observed):		Neu Faleili Maleilai (F21) (M	LNA 121, 141)	uniess distuit	bed of problematic.
	mpaction					
	thes): 12+		_	11.	duia Cail Duanauto	Van Na V
	cnes): 12.			ну	dric Soil Present?	Yes No
Remarks:						

Project/Site: Kensington	City/County: Columbiana	Sampling Date: 08/20/19			
Applicant/Owner: Kensington PV I, LLC		State: PA Sampling Point: W-11			
	Section, Township, Range: S27				
	Local relief (concave, convex, none				
	Lat: 40.663569 Long: -80.9				
	s, 6 to 15 percent slopes				
•	al for this time of year? Yes No (If				
	-				
Are Vegetation, Soil, or Hydrology		ircumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology		olain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach sit	e map showing sampling point location	s, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area				
Hydric Soil Present? Yes	, is the sumpled Alleu	Yes ✓ No			
Wetland Hydrology Present? Yes	No	.00			
Remarks: Cowardin Code: PEM	HGM: Slope Water Type: R				
	,				
LIVEROLOGY					
HYDROLOGY Wotland Hydrology Indicators:	S	ocondary Indicators (minimum of two required)			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; of the control of		Surface Soil Cracks (R6)			
Surface Water (A1)		<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>			
Surface Water (AT) High Water Table (A2)	True Aquatic Plants (B14)  Hydrogen Sulfide Odor (C1)	Sparsery vegetated Concave Surface (B6) Drainage Patterns (B10)			
Saturation (A3)	_ Moss Trim Lines (B16)				
Water Marks (B1)	✓ Oxidized Rhizospheres on Living Roots (C3) _ Presence of Reduced Iron (C4)	_ Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	_ Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	_ Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	<u> </u>	_ Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)	_	_ Shallow Aquitard (D3)			
Water-Stained Leaves (B9)	_	Microtopographic Relief (D4)			
Aquatic Fauna (B13)	<u>.v</u>	FAC-Neutral Test (D5)			
Field Observations:	/				
	Depth (inches):				
	Depth (inches):	,			
Saturation Present? Yes No Depth (inches): Wetland (includes capillary fringe)		drology Present? Yes <u>√</u> No			
	ng well, aerial photos, previous inspections), if availa	ble:			
Remarks:					

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	Absolute	Dominant	Indicator	Dominance Test worksheet:		
ee Stratum (Plot size: 30' )		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:	3	(A)
				Total Number of Dominant		. (-,
-				Species Across All Strata:	3	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/E
				Prevalence Index worksheet:		
50% of total cover: 0	0	= Total Cov		Total % Cover of:	Multiply by:	
				OBL species x	1 =	_
apling/Shrub Stratum (Plot size: 15' )				FACW species x	2 =	_
apmigranius aratum (1 lot 3120				FAC species x		
				FACU species x		
				UPL species x		
	-			Column Totals: (A	· ·	
				Prevalence Index = B/A =		
				Hydrophytic Vegetation Indica	·	
				1 - Rapid Test for Hydrophy	•	
				✓ 2 - Dominance Test is >50%		
	0	= Total Cov	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% of total cover:0	= Total Oover			4 - Morphological Adaptations (Provide supporti		
erb Stratum (Plot size: 5' )	20,0 0.			data in Remarks or on a	separate sheet)	)
Scirpus atrovens	35	1	OBL	Problematic Hydrophytic Ve	egetation <sup>1</sup> (Expla	ıin)
Echinochloa crus-galli	25		FAC			
Polygonum persicaria	20			<sup>1</sup> Indicators of hydric soil and wel	tland hydrology	must
			FACW	be present, unless disturbed or p	problematic.	
Polygonum hydropiperoides	15		OBL	Definitions of Four Vegetation	Strata:	
Rumex crispus	5		FAC	Tree – Woody plants, excluding	vinos 2 in (7.6	cm) c
				more in diameter at breast heigh		
	-			height.	,, ,,	
	-			Conline/Chrub Woody plants	avaluding vinas	. loca
				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	, excluding vines or equal to 3.28	s, iess R ft (1
0				m) tall.	or equal to 0.20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1.						
''-	100	= Total Cov	ıor	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less the		ardless
50% of total cover:50		total cover	. 20	or size, and woody plants less than size it tall.		
Voody Vine Stratum (Plot size: 15' )	2070 01	total cover		Woody vine – All woody vines of	greater than 3.28	8 ft in
				height.		
·						
·						
·						
·	-			Hydrophytic		
	-			Vegetation		
	0	= Total Cov	ver	Present? Yes   ✓	No	
50% of total cover:0	20% of	total cover	: <u> </u>			
remarks: (Include photo numbers here or on a separate s	heet.)			L		
, and provide the comparation of	/					

Depth	ription: (Describe t Matrix	to trie dept		x Features		i tile absence	of indicators.)	
(inches)	Color (moist)	%	Color (moist)	%T <u>y</u>	pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remark	<b>KS</b>
0-10	10YR4/2	90	7.5YR4/6	10C	M/PL	SiL		
10-12	10YR4/2	80	7.5YR4/6	20C	M/PL	SiCL		
12+							Refu	ısal
							-	
	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.		L=Pore Lining, M=Matr	
Hydric Soil I			5 1 6 6	(0=)			ators for Problematic	-
Histosol	• •		Dark Surface		CO) (BAL DA 447		cm Muck (A10) (MLRA	
HISTIC ED	oipedon (A2)		•	ноw Surrace (S rface (S9) <b>(ML</b>	8) <b>(MLRA 147,</b>	148) C	Coast Prairie Redox (A1 (MLRA 147, 148)	16)
	n Sulfide (A4)			ed Matrix (F2)	-KA 147, 140)	D	riedmont Floodplain So	sile (F10)
	l Layers (A5)		✓ Depleted Mat			'	(MLRA 136, 147)	113 (1 13)
	ick (A10) (LRR N)		Redox Dark S			V	ery Shallow Dark Surfa	ace (TF12)
	d Below Dark Surface	e (A11)		k Surface (F7)	)		Other (Explain in Remar	
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	.RR N,		ese Masses (F	12) <b>(LRR N,</b>			
	A 147, 148)		MLRA 13			3		
	leyed Matrix (S4)			ce (F13) <b>(MLF</b>			icators of hydrophytic	
•	edox (S5)				(F19) <b>(MLRA 1</b> 4 (MLDA 127, 147		etland hydrology must b less disturbed or proble	
	Matrix (S6)  _ayer (if observed):		Red Parent N	nateriai (FZT) i	MLRA 127, 147	r) un	iess disturbed or proble	emauc.
	ompacted Soil							
J	ches): 12+		<del></del>			Hydric Soil	Present? Yes ✓	, No
	cries). 12					nyunc 3011	Present: resv	
Remarks:								

Wetland ID W-11 Cowardin Code PEM Date 08/20/19



Photograph Number <u>41</u>
Photograph Direction South

Comments:



Photograph Number <u>42</u>
Photograph Direction West

Comments:



Photograph Number <u>43</u>

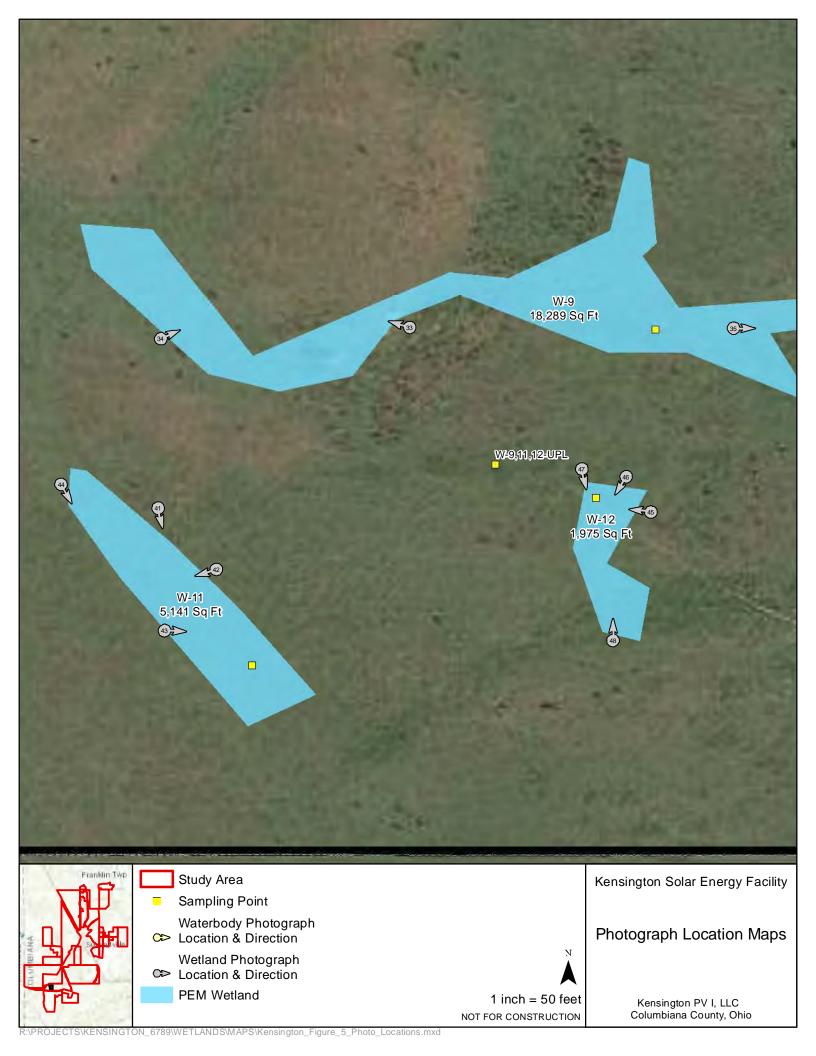
Photograph Direction East

Comments:



Photograph Number 44

Photograph Direction SE



Project/Site: Kensington	City/Count	<sub>y:</sub> Columbiana	Sampling Date:_08/20/19			
Applicant/Owner: Kensington PV I, LLC	·		Sampling Point: W-12			
		ownship, Range: S27 T14N F				
Landform (hillslope, terrace, etc.): Hillslope	Local relief (c	oncave, convex, none): Linea	Slope (%): 3%			
Subregion (LRR or MLRA): LRRN	Lat: 40.663800	Long: -80.903809	Datum: NAD 83			
Soil Map Unit Name: Gilpin-Coshocton silt loam						
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes _	✓ No (If no, explai	n in Remarks.)			
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstan	ces" present? Yes No			
Are Vegetation, Soil, or Hydrology						
SUMMARY OF FINDINGS – Attach sit						
Hydrophytic Vegetation Present? Yes	No Is t					
	No IST	he Sampled Area	✓ No			
Wetland Hydrology Present? Yes	No	hin a Wetland? Yes _	No			
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: RPWWN				
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary	Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface	e Soil Cracks (B6)			
Surface Water (A1)	Sparse	ly Vegetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C	1) <u>v</u> Draina	ge Patterns (B10)			
Saturation (A3)	and the state of t					
Water Marks (B1)	Presence of Reduced Iron	(C4) Dry-Se	ason Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in		h Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)		ion Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks		Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		<del></del>	orphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)			v Aquitard (D3)			
Water-Stained Leaves (B9)			ppographic Relief (D4)			
Aquatic Fauna (B13)		<u>▼</u> FAC-N	eutral Test (D5)			
Field Observations: Surface Water Present? Yes No	✓ Depth (inches):					
	Depth (inches):					
	Depth (inches):		Wetland Hydrology Present? Yes <u>✓</u> No			
(includes capillary fringe)	Depth (inches):	_ wetland Hydrology P	resent? Yes V No No			
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previous	s inspections), if available:				
Daniel						
Remarks:						

Samr	lina	Point:	W-12	)
Same	טוווע	PUIII.	V V I Z	-

,	Ahsoluta	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')		Species?		
1			<u> </u>	Number of Dominant Species That Are OBL, FACW, or FAC:3 (A)
				That / No OBE, 1 / No VI, 01 1 / No.   (//)
2				Total Number of Dominant
3		· -		Species Across All Strata:3 (B)
4	-			Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
6				
7.				Prevalence Index worksheet:
	0	= Total Cov	ver	Total % Cover of: Multiply by:
50% of total cover:0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	2070 0.	10101 00101		FACW species x 2 =
				FAC species x 3 =
1				FACU species x 4 =
2				-
3		· -		UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravelance Index D/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		-		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a separate sheet)
TIEID Stratum (FIOI SIZE)	45	,	EA 0) 4/	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Polygonum persicaria	45		FACW	1 Toblematio Trydrophytio Vegetation (Explain)
2. Echinochloa crus-galli	20		FAC	11. discourse of hoods's and an alternative delication of the state of
3. Scirpus atrovirens	20		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Carex spp.	15		ND	Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		-		more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9	-			than 3 in. DBH and greater than or equal to 3.28 ft (1
10		· -		m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Cov	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50	20% of	total cover	r: 20	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2.				
3				
4				Hydrophytic
5				Vegetation Present? Yes ✔ No
0		= Total Cov	_	riesent? res No
50% of total cover: 0	20% of	total cover	r:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND - Not Determined				

Depth	ription: (Describe t Matrix	o ano depu		x Features	aioatoi	C. COMMIN	abacile	oaioatoro.j
(inches)	Color (moist)	%	Color (moist)	<u> %</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/2	90	7.5YR 4/6	10	С	M/PL	Silo	
						· ——		
						· ——		
1 <sub>Tymor</sub> C C	naantration D Donl	otion DM F	Dadwaad Matrix MG	Mooked !	Cond Cr		2l acetion. D	Doro Lining M. Moteix
Hydric Soil	oncentration, D=Depl	etion, Rivi=F	reduced Matrix, Ms	s=Masked ;	Sand Gr	ains.		L=Pore Lining, M=Matrix.  ators for Problematic Hydric Soils <sup>3</sup> :
-			Dorle Curtons	(07)				
Histosol	oipedon (A2)		Dark Surface Polyvalue Be		o (SS) <b>(I</b>	AI DA 147		cm Muck (A10) <b>(MLRA 147)</b> Coast Prairie Redox (A16)
Black Hi			Thin Dark Su				140) 0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye			141, 140)	P	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mar		_,			(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark		5)		V	/ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	•	,			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)	)			
Sandy M	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	s (F12) (	LRR N,		
	\ 147, 148)		MLRA 13	•				
	Sleyed Matrix (S4)		Umbric Surfa					licators of hydrophytic vegetation and
	tedox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F2	1) <b>(MLR</b>	A 127, 147	') un	less disturbed or problematic.
	_ayer (if observed):							
Type:			<u> </u>					•
Depth (inc	ches):		<u> </u>				Hydric Soil	Present? Yes No
Remarks:								

Wetland ID W-12 Cowardin Code PEM Date 08/20/19



Photograph Number <u>45</u>
Photograph Direction <u>West</u>

Comments:



Photograph Number <u>46</u>
Photograph Direction <u>SW</u>

Comments:

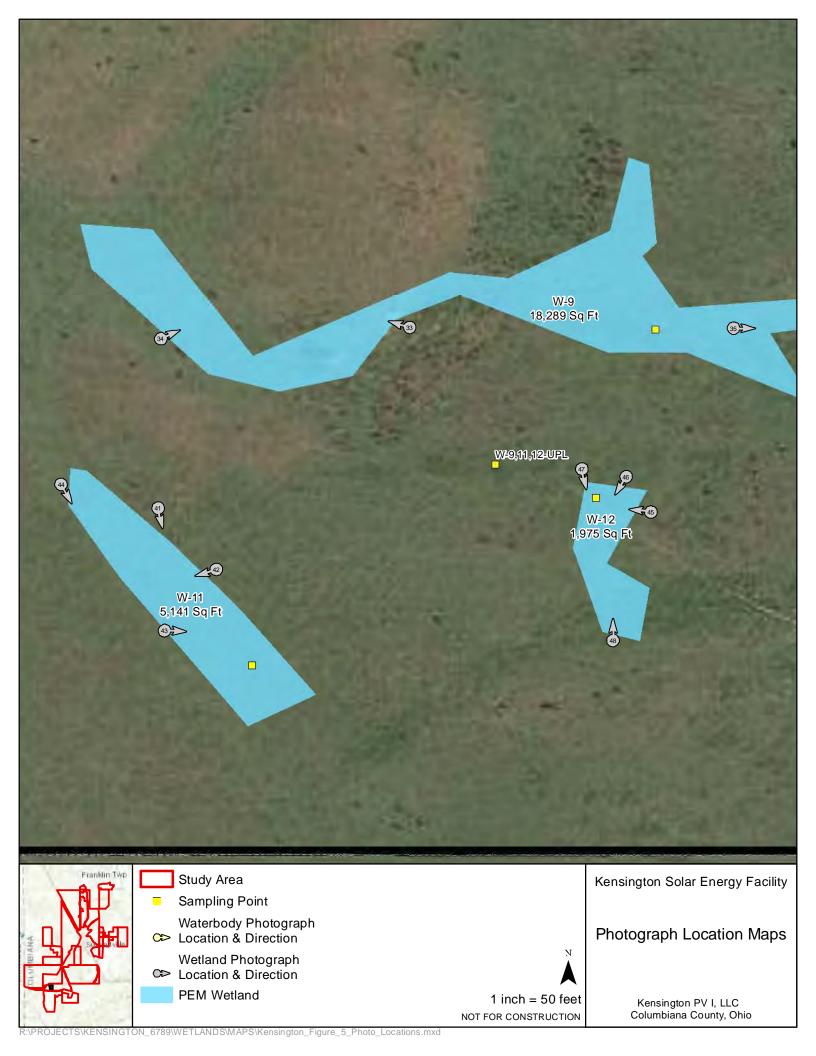


Photograph Number <u>47</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number 48
Photograph Direction North



Project/Site: Kensington	City/0	County: Columbiana		Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC		State: PA Sampling Point: W-9, W-1		
Investigator(s): CV, JL	Secti	on, Township, Range: S		
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 3-4
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Gilpin-Coshocton silt loa				
Are climatic / hydrologic conditions on the site ty	•			
Are Vegetation, Soil, or Hydrolo				
Are Vegetation, Soil, or Hydrolo	gy naturally problem	atic? (If needed, e	explain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sar	npling point location	ons, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes	No			
Hydric Soil Present? Yes	No	Is the Sampled Area	Vaa	No
Wetland Hydrology Present? Yes	No	within a Wetland?	res	_ No
Remarks: Cowardin Code: UPLAND		Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)
Primary Indicators (minimum of one is require	d: check all that apply)		Surface Soil 0	
Surface Water (A1)	(B14)		etated Concave Surface (B8)	
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patt	
Saturation (A3)				
Water Marks (B1)	Presence of Reduce	= : :	Dry-Season V	
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burro	ows (C8)
Drift Deposits (B3)	Thin Muck Surface (	C7)	Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Str	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic F	
Inundation Visible on Aerial Imagery (B7)			Shallow Aquit	
Water-Stained Leaves (B9)			Microtopograp	` '
Aquatic Fauna (B13) Field Observations:		1	FAC-Neutral	Test (D5)
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		Hydrology Present	? Yes No ✔
(includes capillary fringe)	Deptif (inches)	wetianu i	Tydrology Fresem	is les No
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, pro	evious inspections), if ava	ailable:	
Remarks:				
Nonano.				

Sampling	Point:	W-9,	W-11,	W-12	UPL
----------	--------	------	-------	------	-----

0.01	Absolute	Dominant	Indicator	Dominance Test worksheet:	$\neg$
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC: 0 (A)	
2				Total Number of Demisers	
3				Total Number of Dominant Species Across All Strata:  2 (B)	
4				(S)	
5	-			Percent of Dominant Species That Are OBL FACW or FAC: 0% (A/R)	
5				That Are OBL, FACW, or FAC:(A/B)	
6				Prevalence Index worksheet:	$\dashv$
7		-		Total % Cover of: Multiply by:	
0		= Total Cov		OBL species x 1 =	
50% of total cover: 0	20% of	total cover	0		
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A) (B)	
5		-			
				Prevalence Index = B/A =	
6		-		Hydrophytic Vegetation Indicators:	
7		-		1 - Rapid Test for Hydrophytic Vegetation	
8		-		2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting	,
50% of total cover:0	20% of	total cover	0	data in Remarks or on a separate sheet)	'
Herb Stratum (Plot size: 5' )				·	
1. Dactylis glomerata	40		<u>FACU</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
2. Phleum pratense	30	<b>~</b>	FACU		
3. Trifolium pratense	20		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
4. Plantago lanceolata	10		FACU	be present, unless disturbed or problematic.	
5. Achillea millefolium	-5	_	FACU	Definitions of Four Vegetation Strata:	
·· <del>·</del>			1 700	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or	
6		-		more in diameter at breast height (DBH), regardless of	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, less	
9				than 3 in. DBH and greater than or equal to 3.28 ft (1	
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, regardless	
	105	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>52.5</u>					
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.	
1.				neigni.	-
2					
s		-			
4				Hydrophytic	
5				Vegetation	
2		= Total Cov	_	Present? Yes No	
50% of total cover:0	20% of	total cover			
Remarks: (Include photo numbers here or on a separate s	heet.)				

Depth (inches)         Matrix (inches)         Redox Features         Type¹         Loc²         Texture         Remarks           0-8         7.5Y 4/4         100         SIL           8-16         10YR 5/4         100         SCL	
0-8 7.5Y 4/4 100 SIL	
8-16 10YR 5/4 100 SCL SCL	
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2Location: PL=Pore Lining, M=Matrix.	
Hydric Soil Indicators:  Indicators for Problematic Hydric Soil	s <sup>3</sup> .
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2) Polyvalue Below Surface (S8) (MLRA 147, 148) Coast Prairie Redox (A16)	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19)	
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)	
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetation a	nd
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present,	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type:	,
Depth (inches): Hydric Soil Present? Yes No	
Remarks:	

Project/Site: Kensington	City/C	County: Columbiana		Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC	,	, <u> </u>		Sampling Point: W-14
	Secti	on, Township, Range: S2		_
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 0-3
Subregion (LRR or MLRA): LRRN				Datum: NAD 83
Soil Map Unit Name: Berks channery silt loa				
Are climatic / hydrologic conditions on the site				
				,
Are Vegetation, Soil, or Hydrol				
Are Vegetation, Soil, or Hydrol			xplain any answei	
SUMMARY OF FINDINGS – Attach	site map showing san	npling point location	ns, transects	, important features, etc.
Hydrophytic Vegetation Present? Ye	s_ <b>√</b> No	Is the Sampled Area		
Hydric Soil Present? Ye	s <u> </u>	within a Wetland?	Yes ✓	No
Wetland Hydrology Present? Ye	s No		.00	
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: F	RPWWN	
Small ponded area within PEM.				
HYDROLOGY				
Wetland Hydrology Indicators:		<u> </u>	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	(B14)		getated Concave Surface (B8)	
High Water Table (A2)	·			
Saturation (A3)	res on Living Roots (C3)	✓ Drainage Pat Moss Trim Li		
Water Marks (B1)	Presence of Reduce	•		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burr	
Drift Deposits (B3)	Thin Muck Surface (	C7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or St	tressed Plants (D1)
Iron Deposits (B5)		<u>-</u>	✓ Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7	)		Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-Neutral	Test (D5)
Field Observations:	,			
	lo Depth (inches):			
Water Table Present? Yes N	lo Depth (inches):			
	lo <u> </u>	Wetland H	ydrology Presen	t? Yes <u>√</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if avail	lable:	
	3 · , · · · · · · · · · · · · · · · · ·			
Remarks:				

#### VEGETATION (Four Strata) - Use scientific names of plants.

\_)

50% of total cover: \_\_\_\_

Sapling/Shrub Stratum (Plot size: 15' )

% Cover Species? Status

0 \_\_ = Total Cover

0 = Total Cover

20% of total cover:

105 = Total Cover

0 = Total Cover

10

50% of total cover: 52.5 20% of total cover: 21

50% of total cover: 0 20% of total cover:

35

**FACW** 

**FACW** 

OBL

**FAC** 

50% of total cover: 0 20% of total cover: 0

Tree Stratum (Plot size:

Herb Stratum (Plot size:

2. Persecaria sagitata

3. Onoclea sensibilis

4. Vernonia gigantia

1. Phalaris arundinacea

Sampling Point: W-14 Absolute Dominant Indicator Dominance Test worksheet: **Number of Dominant Species** 2 \_\_\_ (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 2 \_\_ (B) Species Across All Strata: Percent of Dominant Species 100 That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_ 1 - Rapid Test for Hydrophytic Vegetation √ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes <u>√</u> No \_\_\_\_ Present?

Remarks: (Include photo numbers here or on a separate sheet.	Remarks:	(Include p	ohoto n	iumbers	here o	r on	a se	parate	sheet.	)
--	----------	------------	---------	---------	--------	------	------	--------	--------	---

Woody Vine Stratum (Plot size: 15')

Depth	Cription: (Describe to Matrix		Redo	x Features			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>% Typ</u>		Texture	Remarks
<u>8-0</u>	10YR4/2	70	7.5YR5/8	30 C	M/PL	SiLo	
<u>8-16</u>	10YR4/2	90	7.5YR5/8	<u>10</u> <u>C</u>	<u>M/PL</u>	SiLo	
		· <del></del>				-	
	-						
						-	
		· <del></del>					
Tuno: C C	ancontration D. Don	lotion DM	Doduced Metrix MS	- Moskod Cone	. Croins	<sup>2</sup> Location: DI	Doro Lining M. Motriy
Type: C=Co Iydric Soil ∣	oncentration, D=Depl	ietion, Rivi=	Reduced Matrix, Mi	s=Masked Sand	i Grains.		=Pore Lining, M=Matrix. ors for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(\$7)			m Muck (A10) (MLRA 147)
	oipedon (A2)			elow Surface (S8	R) (MI RA 147		ast Prairie Redox (A16)
Histic L <sub>k</sub> Black Hi	•		•	rface (S9) <b>(MLF</b>			(MLRA 147, 148)
	en Sulfide (A4)			ed Matrix (F2)	,		edmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Ma				(MLRA 136, 147)
_ 2 cm Mu	ıck (A10) (LRR N)		Redox Dark	Surface (F6)		Ver	ry Shallow Dark Surface (TF12)
•	d Below Dark Surface	e (A11)	•	rk Surface (F7)		Oth	ner (Explain in Remarks)
	ark Surface (A12)		Redox Depre				
	Mucky Mineral (S1) <b>(L</b>	.RR N,		ese Masses (F1	2) <b>(LRR N,</b>		
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 13	<b>6)</b> ace (F13) <b>(MLR/</b>	۸ 126 122۱	<sup>3</sup> Indic	ators of hydrophytic vegetation and
	Redox (S5)			odplain Soils (F			and hydrology must be present,
•	Matrix (S6)			Material (F21) <b>(N</b>			ss disturbed or problematic.
	Layer (if observed):				,	,	oo alota soa oi prosiomato.
Type:							
• •	ches):					Hydric Soil P	Present? Yes <u>√</u> No
Remarks:							

Wetland ID W-14 Cowardin Code PEM Date 08/20/19



Photograph Number 49
Photograph Direction East

Comments:



Photograph Number 50
Photograph Direction South

Comments:



Photograph Number 51

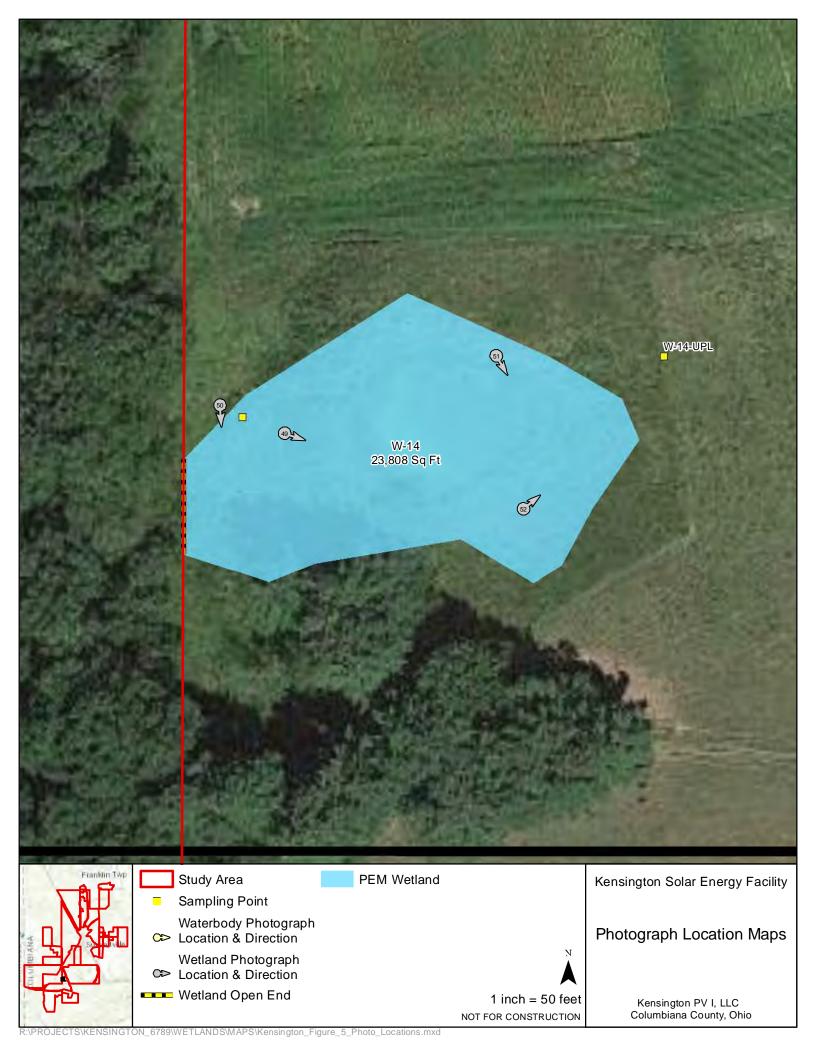
Photograph Direction SE

Comments:



Photograph Number 52

Photograph Direction NE



Project/Site: Kensington	City/County: C	olumbiana	Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-14 UPL
	Section, Towns		
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR or MLRA): LRRN			
Soil Map Unit Name: Berks channery silt loam,			
Are climatic / hydrologic conditions on the site typ	ical for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Normal Circumstances	s" present? Yes V No
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach si			
Hydrophytic Vogetation Present?	No Is the St		1
	No V	ampled Area	•
	No within a	Wetland? Yes	No
Remarks: Cowardin Code: UPLAND	HGM: V	Vater Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Ind	icators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface So	
Surface Water (A1)	True Aquatic Plants (B14)		/egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Livir		Lines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Seaso	on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled	Soils (C6) Crayfish B	urrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)		<del></del> ·	nic Position (D2)
Inundation Visible on Aerial Imagery (B7)			quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neuti	ral Test (D5)
Field Observations:	V Danille (Saakaa)		
	Depth (inches):  Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No _ (includes capillary fringe)	Depth (Inches):	Wetland Hydrology Pres	ent? Yes No
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous insp	ections), if available:	
Remarks:			

## **VEGETATION** (Four Strata) – Use scientific names of plants.

	Sampling	Point: W-14 UPL
--	----------	-----------------

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.	% Cover			Number of Dominant Species	0	(4)
1				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant	2	(5)
3				Species Across All Strata:		(B)
4				Percent of Dominant Species	0%	
5				That Are OBL, FACW, or FAC:	<u> </u>	(A/B)
6				Prevalence Index worksheet:		
7	0 -	= Total Cov	/or	Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2	=	_
1				FAC species x 3	=	_
2				FACU species x 4	=	_
3				UPL species x 5	=	_
4				Column Totals: (A)		
5						
6				Prevalence Index = B/A = _		
7				Hydrophytic Vegetation Indicate		
8				1 - Rapid Test for Hydrophytic	: Vegetation	
9.			·	2 - Dominance Test is >50%		
	_	= Total Cov	/er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	1	
50% of total cover:0				4 - Morphological Adaptations		
Herb Stratum (Plot size: 5' )				data in Remarks or on a se		
1. Dactylis glomerata	40	~	FACU	Problematic Hydrophytic Vege	etation¹ (Expla	iin)
2. Phleum pratense	30	~	FACU			
3. Asclepias syriaca	10		FACU	<sup>1</sup> Indicators of hydric soil and wetla		must
4. Daucus carota	10		UPL	be present, unless disturbed or pro		
5. Plantago lanceolata	5		UPL	Definitions of Four Vegetation S	itrata:	
6. Trifolium pratense	10		FACU	Tree - Woody plants, excluding vi		
7				more in diameter at breast height height.	(DBH), regard	less of
8						
9				Sapling/Shrub – Woody plants, e than 3 in. DBH and greater than or	xcluding vines	s, less
10				m) tall.	r equal to 5.20	) 11 (1
11.				Howle All banks account (account of	h.) =l==t= ====	
	105	= Total Cov	/er	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that		iraless
50% of total cover: <u>52.5</u>						
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines green height.	eater than 3.28	3 ft in
1				noight.		
2						
3						
4				Underskrift		
5.				Hydrophytic Vegetation		
		= Total Cov	/er	Present? Yes	No 🗸	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

epth	Matrix		Redox Feature	S T 1	1 2 -2	T		D	1	
nches)	Color (moist)	<u>%</u>	Color (moist) %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	<u> </u>	Remar	ks	
0-16	7.5Y 4/4	100				GrSL	_			
							<del>-</del>			
/pe: C=Cc	oncentration. D=Depl	letion. RM=	Reduced Matrix, MS=Masked	d Sand Gra	ains.	<sup>2</sup> Location:	PL=Pore Lin	ing. M=Mat	rix.	
	ndicators:		, , , , , , , , , , , , , , , , , , , ,				cators for P			oils³:
Histosol	(A1)		Dark Surface (S7)				2 cm Muck (	A10) <b>(MLR</b>	A 147)	
	ipedon (A2)		Polyvalue Below Surfa	ce (S8) <b>(N</b>	ILRA 147,		Coast Prairie			
Black His			Thin Dark Surface (S9				(MLRA 14			
Hydroge	n Sulfide (A4)		Loamy Gleyed Matrix	(F2)			Piedmont Fl	oodplain So	oils (F19)	
	Layers (A5)		Depleted Matrix (F3)				(MLRA 13			
	ck (A10) (LRR N)		Redox Dark Surface (F				Very Shallov		•	2)
	Below Dark Surface	e (A11)	Depleted Dark Surface			_	Other (Expla	in in Rema	rks)	
	rk Surface (A12)	DD M	Redox Depressions (F		DD 11					
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Mass	es (F12) <b>(</b> I	_RR N,					
	147, 148) leyed Matrix (S4)		MLRA 136) Umbric Surface (F13)	(MI D A 12	6 422)	31,	dicators of h	vdranhvtia	vogototion	ond.
	edox (S5)		Piedmont Floodplain S				etland hydro		-	
	Matrix (S6)		Red Parent Material (F				nless disturb			ι,
	ayer (if observed):		rear arent material (i	ZI) (MEIX	127, 177	,	THOSE GISTAIN	ca or probi	ciriatio.	
Type:	,									
Depth (inc	shee).					Hydric Sc	il Present?	Yes	No	~
						Tiyunc 30	ii r resent:	163		
marks:										

Project/Site: Kensington	City/Co	ounty: Columbiana		Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC		-		Sampling Point: W-15
	Sectio			
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 0-1
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Berks channery silt loam, 8				
Are climatic / hydrologic conditions on the site typic	al for this time of year? Ye	es No (	(If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturb	ed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology _				
SUMMARY OF FINDINGS – Attach site				
Hydrophytic Vegetation Present? Yes	/ No			
	No No	Is the Sampled Area		
Wetland Hydrology Present? Yes	/No	within a Wetland?	Yes	No
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type:	NRPWW	
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that apply)		✓ Surface Soil	·
Surface Water (A1)	True Aquatic Plants (E	314)		
High Water Table (A2)	Hydrogen Sulfide Odo		✓ Drainage Pat	getated Concave Surface (B8) sterns (B10)
Saturation (A3)	<ul> <li>Oxidized Rhizosphere</li> </ul>	s on Living Roots (C3)	Moss Trim Li	
Water Marks (B1)	Presence of Reduced	Iron (C4)	Dry-Season \	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C	7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rem	arks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic	, ,
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:	<b>V</b> 5 4 6 1 3			
	Depth (inches):			
	Depth (inches):			
Saturation Present? Yes No! (includes capillary fringe)	Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, prev	rious inspections), if ava	ilable:	
Remarks:				

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-15

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	3	(A)
2				Total Number of Deminent		
3				Total Number of Dominant Species Across All Strata:	3	(B)
4				Species / toroco / tir Girata.		(5)
				Percent of Dominant Species	1000/	
5				That Are OBL, FACW, or FAC:	100%	(A/B)
6				Prevalence Index worksheet:	_	
7					Multiply by	
	0	= Total Cov	er	Total % Cover of:		
50% of total cover:0	20% of	total cover:	. 0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1				FAC species x :	3 =	_
2				FACU species x	4 =	
				UPL species x :		
3				Column Totals: (A)		
4				Coldifii Totals (A)	,	_ (b)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicate		
7				1 - Rapid Test for Hydrophyt		
8					-	
9				✓ 2 - Dominance Test is >50%		
<u>.                                    </u>	_	= Total Cov		3 - Prevalence Index is ≤3.0		
50% of total cover: 0				4 - Morphological Adaptation	าร <sup>1</sup> (Provide sup	porting
EI .	20% 01	total cover.		data in Remarks or on a s	separate sheet)	
TIEID Stratum (Flot Size)	10		FAC	Problematic Hydrophytic Veg	getation <sup>1</sup> (Expla	in)
1. Microstegium vimineum				_ , , ,		,
2. Leersia virginica	40		FACW	<sup>1</sup> Indicators of hydric soil and wetl	land hydrology r	nuet
3. Polygonum persicaria	15		FACW_	be present, unless disturbed or p		iiust
4. Panicum sp.	10		ND	Definitions of Four Vegetation		
5. Polygonum hydropiper	10		OBL	John Coll Car Togotation	O. a.a.	
6. Bidens connata	15	~	FACW	Tree – Woody plants, excluding v		
7				more in diameter at breast height height.	t (DBH), regard	ess of
				neight.		
8				Sapling/Shrub – Woody plants,		
9		-		than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-woo	dy) plants, rega	rdless
	100	= Total Cov	er	of size, and woody plants less that	an 3.28 ft tall.	
50% of total cover: 50	20% of	total cover:	20	Woody vine – All woody vines g	rooter than 2 20	ft in
Woody Vine Stratum (Plot size: 15' )				height.	reater than 3.20	11 111
1				···-g···	-	
2						
3						
4		-		Hydrophytic		
5	^			Vegetation Present? Yes	No	
0		= Total Cov	_	Tresent: Tes	140	
50% of total cover: 0		total cover:	0			
Remarks: (Include photo numbers here or on a separate sl	heet.)					

Depth	cription: (Describe to Matrix	io ine depi		x Features		ii the absence of h	nuicators.)
(inches)	Color (moist)	%	Color (moist)		/pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 5/2	95	7.5YR 5/6	5 C	M/PL	SiLo	
8-16	10YR 5/2	98	7.5YR 5/6	2C	M/PL	SiLo	
_							
Fype: C=C	oncentration, D=Depl	letion. RM=	Reduced Matrix. MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: PL=P	ore Lining, M=Matrix.
	Indicators:		, , , , , , , , , , , , , , , , , , , ,				s for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)		2 cm	Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)			•	S8) <b>(MLRA 147</b> ,	· —	t Prairie Redox (A16)
	stic (A3)			, , ,	_RA 147, 148)		LRA 147, 148)
	en Sulfide (A4)		Loamy Gleye				nont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat				LRA 136, 147)
	ıck (A10) <b>(LRR N)</b>		Redox Dark S	, ,			Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)		k Surface (F7	)	Other	(Explain in Remarks)
	ark Surface (A12)		Redox Depre				
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane		F12) <b>(LRR N,</b>		
	A 147, 148)		MLRA 130	•		3	
	Gleyed Matrix (S4)		Umbric Surfa				ors of hydrophytic vegetation and
	Redox (S5)				(F19) <b>(MLRA 1</b> 4		d hydrology must be present,
	Matrix (S6)		Red Parent M	faterial (F21)	(MLRA 127, 14	7) unless	disturbed or problematic.
	Layer (if observed):						
Type:	ches):					Hydric Soil Pre	sent? Yes 🗸 No
Remarks:						Tryunc con re	3cm: 1e3 No
terriarks.							

Wetland ID W-15 Cowardin Code PEM Date 08/20/19



Photograph Number <u>53</u>
Photograph Direction NW

Comments:



Photograph Number <u>54</u>
Photograph Direction <u>NW</u>

Comments:

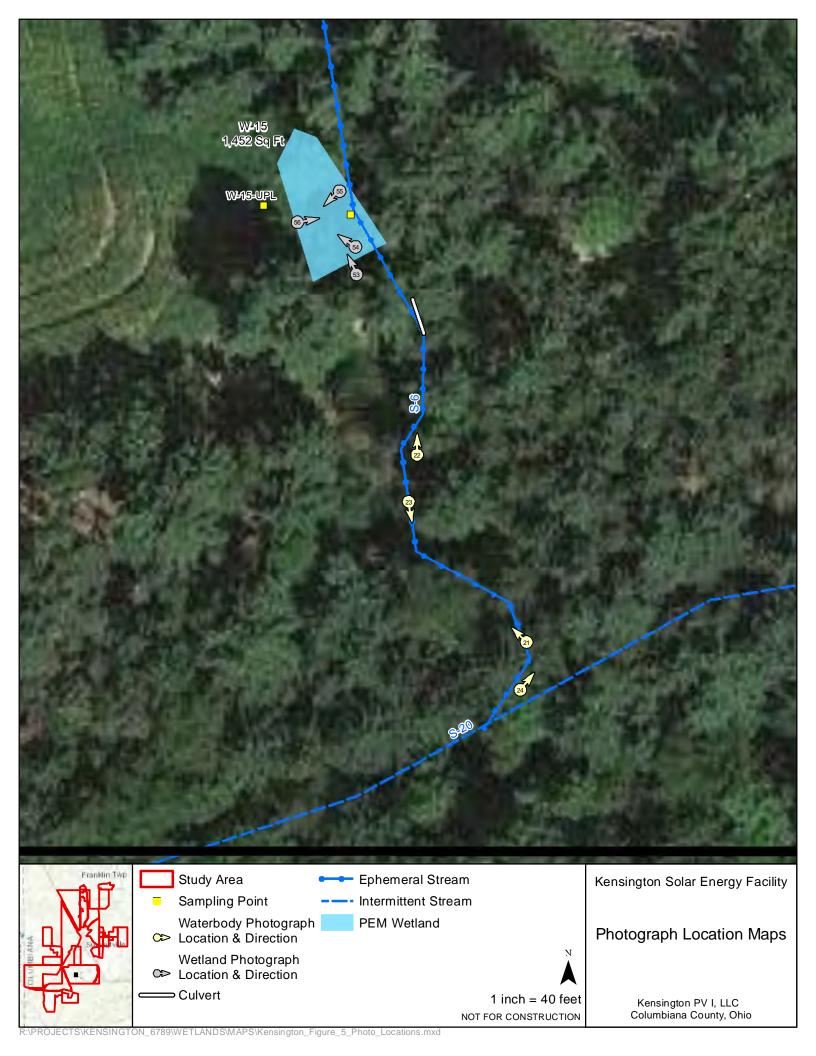


Photograph Number <u>55</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number <u>56</u>
Photograph Direction <u>East</u>



Project/Site: Kensington	City/Cour	nty: Columbiana	Sampling Date: 08/19/19
Applicant/Owner: Kensington PV I, LLC		State: PA	
		Township, Range: S26 T14N R4	
Landform (hillslope, terrace, etc.): Hillslope		concave, convex, none): Linear	
Subregion (LRR or MLRA): LRRN		Long: -80.89167	
Soil Map Unit Name: Berks channery silt loam			
Are climatic / hydrologic conditions on the site typ	pical for this time of year? Yes	No (If no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrology			
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach si			
		,	, ,
	No.	the Sampled Area	.,
	No wi	ithin a Wetland? Yes	No
	l e	Water Type:	
Remarks: Cowardin Code: UPLAND	HGM:	Water Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	dicators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	·	Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14		Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres of		m Lines (B16)
Water Marks (B1)	Presence of Reduced Iro		on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in		Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		n Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark		or Stressed Plants (D1)
Iron Deposits (B5)			hic Position (D2)
Inundation Visible on Aerial Imagery (B7)			Aquitard (D3)
Water-Stained Leaves (B9)			ographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neu	• • • • • • • • • • • • • • • • • • • •
Field Observations:			· ,
	Depth (inches):		
	Depth (inches):		
	Depth (inches):		sent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor			
Describe Recorded Data (Stream gauge, monito	oning well, aerial priotos, previot	is inspections), ii available.	
Remarks:			

Sampling	Point: W-1	5 UPL
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Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tice otratum (1 lot size.		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)
6				That Ale OBL, FACW, OF FAC.
7		-		Prevalence Index worksheet:
r	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	20 /0 01	total cover		FACW species x 2 =
				FAC species x 3 =
1,				FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				
9				2 - Dominance Test is >50%
	_	= Total Cov	er	3 - Prevalence Index is ≤3.0¹
50% of total cover: 0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Echinochloa crus-galli	35	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Setaria faberi	25		UPL	
3. Microstegium vimineum			FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4 Trifolium pretense	15		FACU	be present, unless disturbed or problematic.
				Definitions of Four Vegetation Strata:
<sub>5.</sub> Rubus sp.	10		ND	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	90	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover		
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				neight.
1,				
2				
2				
3				
				Hydrophytic
3				Vegetation
3. 4. 5.		= Total Cov	_	1 2 3 3
3. 4.			_	Vegetation
3. 4. 5.	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation
3	0 20% of	= Total Cov	_	Vegetation

Depth	Matrix		needed to document the indica Redox Features				•	
(inches)	Color (moist)	%	Color (moist) % Typ	e <sup>1</sup> Loc <sup>2</sup> 7	exture		Remarks	
0-12	7.5Y4/4	100			SIL			
12+						Co	ompacted	Soils
							•	
	_							
	_							
Type: C=Cc	ncentration D=Den	letion RM=Re	educed Matrix, MS=Masked Sand	I Grains <sup>2</sup> I c	cation: PL=F	Pore Lining	M=Matrix	
ydric Soil I		iotion, rawi–ra	daded Matrix, Me-Masked Care	Zoramo.				dric Soils <sup>3</sup> :
_ Histosol			Dark Surface (S7)				0) <b>(MLRA 1</b>	
	pipedon (A2)		Polyvalue Below Surface (St	3) <b>(MLRA 147, 148</b>		•	edox (A16)	,
Black His			Thin Dark Surface (S9) (MLI			/ILRA 147,		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)				dplain Soils (	(F19)
Stratified	Layers (A5)		Depleted Matrix (F3)		(N	/ILRA 136,	147)	
	ck (A10) (LRR N)		Redox Dark Surface (F6)				ark Surface	
_	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)		Othe	er (Explain	in Remarks)	
	rk Surface (A12)		Redox Depressions (F8)	-> #				
	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F1	2) <b>(LRR N,</b>				
	147, 148)		MLRA 136)	1 420 420)	31	4 4		
	leyed Matrix (S4) edox (S5)		Umbric Surface (F13) (MLR) Piedmont Floodplain Soils (F				rophytic veg gy must be p	
	Matrix (S6)		Red Parent Material (F21) (N				or problema	
	ayer (if observed):		Real arent Material (121) (1		unics	3 disturbed	or problems	atio.
	mpaction							
· · ·	ches): 12+		_		ydric Soil Pr	acant?	Yes	No 🗸
	nes). <u></u>		_		yuric Soli Fr	esent	162	NO <u>*</u>
temarks:								

Project/Site: Kensington		City/C	ounty: Columbiana		Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LL	_C		<b>3</b>		Sampling Point: W-16 PEM
		Section	on, Township, Range: S		
Landform (hillslope, terrace, etc.): Flood					Slope (%): 0-3
Subregion (LRR or MLRA): LRRN	l at				Datum: NAD 83
Soil Map Unit Name: Berks channery silt					
Are climatic / hydrologic conditions on the			_		
					,
Are Vegetation, Soil, or Hy		-			
Are Vegetation, Soil, or Hy				explain any answe	
SUMMARY OF FINDINGS – Atta	ich site n	nap showing sam	ipling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No	Is the Sampled Area		
Hydric Soil Present?	Yes <u>√</u>	No	within a Wetland?	Yes ✓	No
Wetland Hydrology Present?	Yes	No			
Remarks: Cowardin Code: PEM		HGM: Riverine	Water Type:	RPWWD	
In active cow pasture.					
· ·					
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is red	guired; chec	k all that apply)		✓ Surface Soil	•
Surface Water (A1)	•	True Aquatic Plants (	B14)		getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Odd		✓ Drainage Pa	
Saturation (A3)	<u>√</u>		es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced	•		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	
✓ Drift Deposits (B3)		Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)				✓ Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery	(B7)			Shallow Aqu	itard (D3)
Water-Stained Leaves (B9)				Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)				✓ FAC-Neutral	Test (D5)
Field Observations:					
		_ Depth (inches):			
Water Table Present? Yes	_ No <u></u> ✓	Depth (inches):			
	_ No <u></u> ✓	Depth (inches):	Wetland I	Hydrology Preser	nt? Yes <u>√</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge,	monitoring v	well, aerial photos, pre	vious inspections), if ava	nilable:	
Just tool and Just (or carring augo)	eg	rom, domar priotos, pro			
Remarks:					

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point	t: <u>W-16 P</u> I	EM
est worksheet:		
ninant Species	3	(A)

001	Absolute	Dominant	Indicator	Dominance Test worksheet:	_
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	Status	Number of Dominant Species	
1				That Are OBL, FACW, or FAC:3 (A)	
2				Total Number of Dominant	
3				Species Across All Strata: 3 (B)	
A					
5				Percent of Dominant Species That Are OBL, FACW, or FAC:100 (A/	B)
6				That Ale OBE, I AOW, OF I AO (A)	رر
7				Prevalence Index worksheet:	
·	0	= Total Cov	/er	Total % Cover of: Multiply by:	
50% of total cover:0				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1				FAC species x 3 =	
2				FACU species x 4 =	
				UPL species x 5 =	
3				Column Totals: (A) (E	3)
4				(2)	,
5				Prevalence Index = B/A =	
6		· <del></del>		Hydrophytic Vegetation Indicators:	
7				✓ 1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
0		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporti	ng
50% of total cover: 0	20% of	total cover	: 0	data in Remarks or on a separate sheet)	3
Herb Stratum (Plot size: 5' )	40		E40	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
1. Microstegium vimineum	10		FAC	r roblematic rryarophytic vegetation (Explain)	
2. Leersia virginica	40	<b>√</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
3. Polygonum pensylvanicum	15		FACW_	be present, unless disturbed or problematic.	
4. Panicum sp.	10		ND	Definitions of Four Vegetation Strata:	
5. Polygonum hydropiper	10		OBL		
6. Bidens connata	15	✓	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless of	or
7				height.	JI
8					
0				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1	
10			-	m) tall.	
11	-				
	100	= Total Cov	ıor	<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.	S
50% of total cover: 50		total cover		or size, and woody plants less than 3.20 it tall.	
Woody Vine Stratum (Plot size: 15' )	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in	
				height.	
1					
2					
3		-			
4		·		Hydrophytic	
5				Vegetation	
_		= Total Cov		Present? Yes No	
50% of total cover: 0		total cover	: 0		
Remarks: (Include photo numbers here or on a separate s	heet.)				
ND - Not Determined					

Depth	cription: (Describe to Matrix			x Features		. the absolute	or maioators,
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Ty	/pe <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 5/2	95	7.5YR 5/6	5C	M/PL	SiLo	
8-16	10YR 5/2	98	7.5YR 5/6		M/PL	SiLo	
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.		=Pore Lining, M=Matrix.
lydric Soil			D 10 (	(07)			tors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Dark Surface		68) <b>(MLRA 147,</b>		cm Muck (A10) (MLRA 147)
HISUC E <sub>l</sub> Black Hi	•		•		S8) (IVILKA 147, _RA 147, 148)		oast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye		2107 147, 140)		edmont Floodplain Soils (F19)
	d Layers (A5)		✓ Depleted Mat			· · · · · · · · · · · · · · · · · · ·	(MLRA 136, 147)
2 cm Mu	ıck (A10) (LRR N)		Redox Dark S	Surface (F6)		Ve	ery Shallow Dark Surface (TF12)
•	d Below Dark Surface	e (A11)	•	k Surface (F7	)	Ot	ther (Explain in Remarks)
	ark Surface (A12)	DD N	Redox Depre		-10) (I DD N		
	Mucky Mineral (S1) <b>(L</b> <b>\ 147, 148)</b>	.RR N,	Iron-Mangane MLRA 136		-12) <b>(LRR N,</b>		
	Gleyed Matrix (S4)		Umbric Surfa		2Δ 136 122)	<sup>3</sup> India	cators of hydrophytic vegetation and
	Redox (S5)				(F19) <b>(MLRA 1</b> 4		land hydrology must be present,
•	Matrix (S6)				(MLRA 127, 147		ess disturbed or problematic.
Restrictive I	Layer (if observed):						·
Туре:							_
Depth (in	ches):					Hydric Soil I	Present? Yes <u>√</u> No
Remarks:							

Wetland ID W-16 PEM Cowardin Code PEM Date 08/20/19



Photograph Number <u>57</u>
Photograph Direction NW

Comments:



Photograph Number <u>58</u>
Photograph Direction <u>SE</u>

Comments:



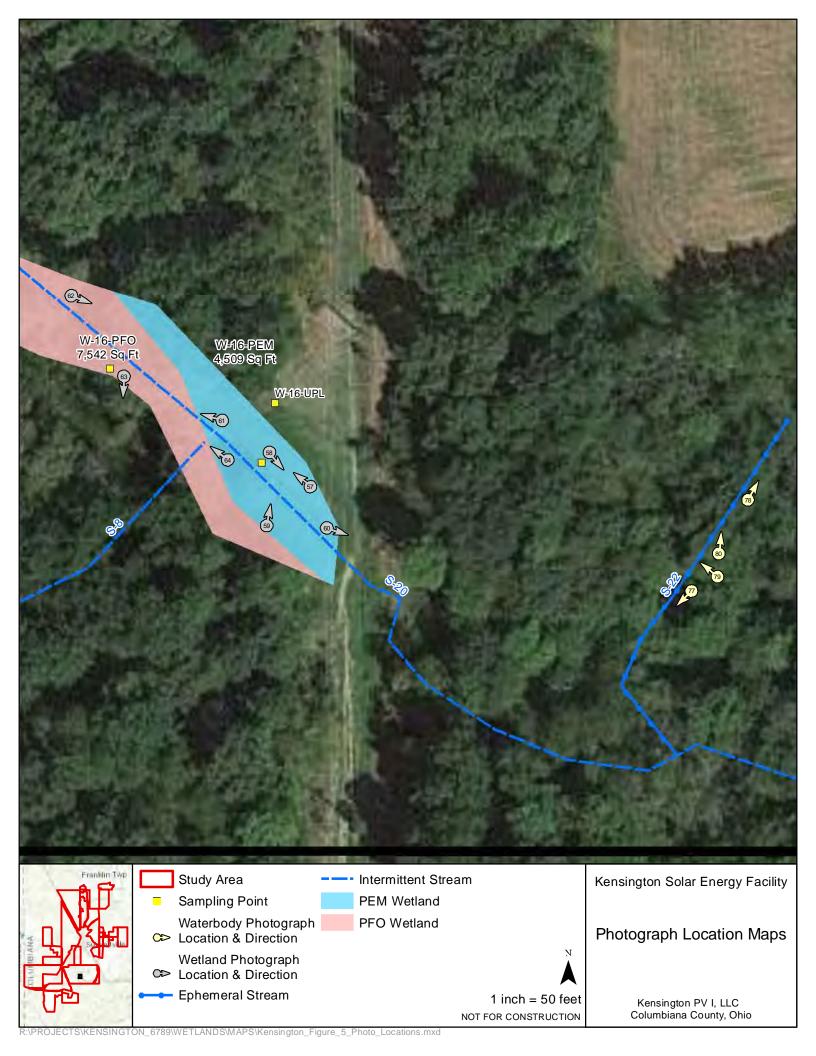
Photograph Number 59
Photograph Direction North

Comments:



Photograph Number 60
Photograph Direction East

3:			



Project/Site: Kensington	City/County: Columb	oiana	Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC		State: PA	Sampling Point: W-16 PFO
	Section, Township, Ra		
Landform (hillslope, terrace, etc.): Floodplain			
Subregion (LRR or MLRA): LRRN	20 carrener (correave, corr		Datum: NAD 83
Soil Map Unit Name: Berks channery silt loam			
•	_		
Are climatic / hydrologic conditions on the site typ	-		,
Are Vegetation, Soil, or Hydrolog			
Are Vegetation, Soil, or Hydrolog		eeded, explain any answe	
SUMMARY OF FINDINGS – Attach s	te map showing sampling point I	ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes _	✓ No Is the Sampler	J A	
Hydric Soil Present? Yes _	, Is the sumplet	nd? Yes ✓	No
Wetland Hydrology Present? Yes _		103	
Remarks: Cowardin Code: PFO	HGM: Riverine Water	Type: RPWWD	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil	•
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	✓ Drainage Pa	
Saturation (A3)	✓ Oxidized Rhizospheres on Living Roo		
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (	•	
✓ Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	✓ Stunted or S	tressed Plants (D1)
Iron Deposits (B5)		✓ Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	itard (D3)
Water-Stained Leaves (B9)		Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations:	,		
	Depth (inches):		
	Depth (inches):		,
Saturation Present? Yes No _ (includes capillary fringe)	✓ Depth (inches): We	etland Hydrology Preser	nt? Yes <u>√</u> No
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections	s), if available:	
Remarks:			

/EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: W-16 PFO
201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Carya ovata	40	· <del>- /</del> -	FACU	That Are OBL, FACW, or FAC:5 (A)
2. Acer rubrum	20		F <u>AC</u>	Total Number of Dominant
3. Prunus serotina	10		F <u>ACU</u>	Species Across All Strata: 7 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 71 (A/B)
6				
7				Prevalence Index worksheet:
	70	= Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover: <u>35</u>	20% of	total cover	: 14	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1. Rosa multiflora	10		F <u>ACU</u>	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4.			-	Column Totals: (A) (B)
5				5 1 1 5 5 6
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
			<u> </u>	1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	10	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 5				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )	20 /0 01	total cover	·	data in Remarks or on a separate sheet)
1. Microstegium vimineum	10		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Leersia virginica	15	<b>√</b>	FACW	
3. Persecaria pensylvanica	15	<b>→</b>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	20	·	FACW	be present, unless disturbed or problematic.
4. Impatiens capensis			FACW	Definitions of Four Vegetation Strata:
5. Persecaria hydropiper	10		FACW FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Bidens connata	15			more in diameter at breast height (DBH), regardless of
7. Echinochloa crus-galli	10		FAC	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover	: <u>19</u>	Woody vine All woody vines greater than 2.29 ft in
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				
2				
3				
4				
5.				Hydrophytic Vegetation
<u> </u>		= Total Cov	ıρr	Present? Yes \(\sqrt{\sq}\sqrt{\sq}}}}}}}}}}}}\signt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
50% of total cover: 0		total cover	_	
Remarks: (Include photo numbers here or on a separate s				
Temano. (morado prioto hamboro here or on a separate s	1000.)			

Depth	Matrix	<u></u> %	Redo	x Features	pe <sup>1</sup> Loc <sup>2</sup>	Toutur-	Damadra
(inches) 0-16	Color (moist) 10YR 4/2	<del></del> _	Color (moist) 7.5YR 5/6	<u>% Tyr</u> 20 C	<u>Loc</u> M	Texture CL	Remarks
0-16	1018 4/2		7.51K 5/0		<u>IVI</u>		
				<del></del>			
			·		<del></del>		
ype: C=Co	ncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked Sand	d Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.
ydric Soil I	ndicators:						ors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)		2 0	cm Muck (A10) <b>(MLRA 147)</b>
_ Histic Ep	ipedon (A2)		Polyvalue Be	low Surface (S	B) <b>(MLRA 147</b>	, <b>148)</b> Co	ast Prairie Redox (A16)
Black His	stic (A3)			ırface (S9) <b>(ML</b> I	RA 147, 148)		(MLRA 147, 148)
	n Sulfide (A4)			ed Matrix (F2)			edmont Floodplain Soils (F19)
	Layers (A5)		✓ Depleted Ma				(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark				ry Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	•	k Surface (F7)		Ot	her (Explain in Remarks)
	rk Surface (A12)	DD N	Redox Depre		(a) (1 DD N		
	ucky Mineral (S1) (L	RR N,		ese Masses (F´	2) (LRR N,		
	147, 148)		MLRA 13		N 126 122\	<sup>3</sup> India	cators of hydrophytic vegetation and
	leyed Matrix (S4) edox (S5)			ice (F13) <b>(MLR</b> oodplain Soils (F			and hydrology must be present,
•	Matrix (S6)			//aterial (F21)			ess disturbed or problematic.
	ayer (if observed):		Red Falentin	viateriai (i 2 i) (i	/ILKA 127, 14	T) unite	assausturbed or problematic.
COGIOCIVE L	ayer (ii observea).						
Type:							/
Type:	hoo).					Hudria Cail F	Dracomto Vac s/ Na
Depth (inc	hes):		<del></del>			Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):		_			Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u></u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u></u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u></u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>√</u> No
• •	hes):					Hydric Soil F	Present? Yes <u>√</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes <u>V</u> No
Depth (inc	hes):					Hydric Soil F	Present? Yes V No No
Depth (inc	hes):					Hydric Soil F	Present? Yes V No No
Depth (inc	hes):					Hydric Soil F	Present? Yes V No

Wetland ID W-16 PFO Cowardin Code PFO Date 08/20/19



Photograph Number 61
Photograph Direction West

Comments:



Photograph Number 62
Photograph Direction East

Comments:



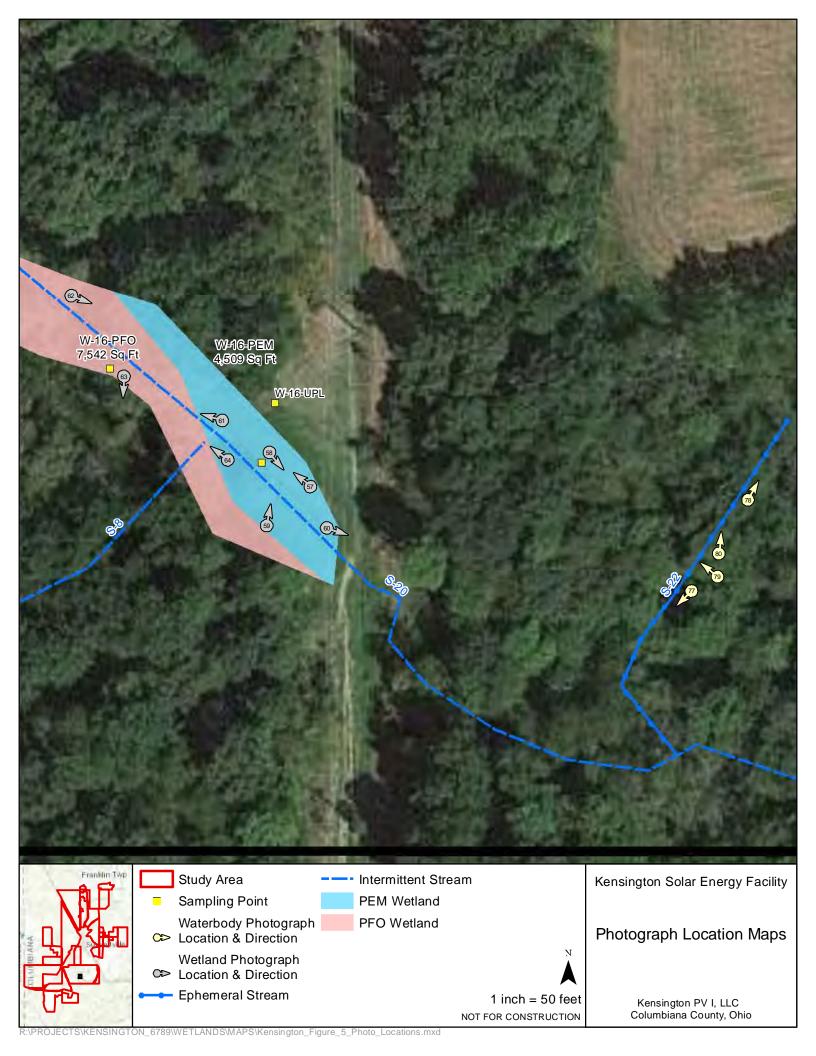
Photograph Number 63

Photograph Direction South

Comments:



Photograph Number 64
Photograph Direction NW



Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/20/19
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-16 UPL
	Section			
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 2-4
Subregion (LRR or MLRA): LRRN				
Soil Map Unit Name: Berks channery silt loan				
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	es <u> </u>	If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrolog	gy significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrolog				
SUMMARY OF FINDINGS – Attach s				
Lhadranhatia Vanatatian Bassant	No. V			
	No V	Is the Sampled Area		
	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: UPLAND		Water Type:		
In active cow pasture.		water type.		
In active cow pasture.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required	l; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Pat	
Saturation (A3)	Oxidized Rhizospher		Moss Trim Li	
Water Marks (B1)	Presence of Reduced	l Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C	27)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rer	narks)	Stunted or St	ressed Plants (D1)
Iron Deposits (B5)			Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (B9)			Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)
Field Observations:				
	Depth (inches):			
Water Table Present? Yes No	Depth (inches):			
	Depth (inches):	Wetland H	ydrology Presen	t? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	l vious inspections), if avai	lable:	
Remarks:				

Sampling	Point:	W-16	UPL
----------	--------	------	-----

Trop Strotum (Blot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2				Total Number of Descionat
3				Total Number of Dominant Species Across All Strata:  2 (B)
4				Species / toross / til Strata.
		-		Percent of Dominant Species
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7		-		
		= Total Cov		
50% of total cover:0	20% of	total cover	. 0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
				UPL species x 5 =
3		-	· <del></del>	Column Totals: (A) (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
		-		2 - Dominance Test is >50%
9	0	T		3 - Prevalence Index is ≤3.0 <sup>1</sup>
500% of total access 0		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover		data in Remarks or on a separate sheet)
Telb Stratum (Flot Size)	<b>5</b> 0		E4011	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Dactylis glomerata	50		FACU	1 Toblematic Hydrophytic Vegetation (Explain)
2. Trifolium pratense	20		FACU_	1
3. Phleum pratense	15		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Daucus carota	5		UPL	
5			·	Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
· ··· <u> </u>	90	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45		total cover		or size, and woody plants less than 5.20 it tall.
451	20 /0 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15 )				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0	T-1-1-0		Vegetation Present? Yes No _  ✓
500/ -1144-1		= Total Cov	_	
50% of total cover:0		total cover		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the in	dicator o	or confirm	the abse	ence of indicato	ors.)	
Depth	Matrix		Redo	x Features		. 2	_			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur		Remarks	
0-16	10YR 4/4	100					CL			
						-				
										_
	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked S	Sand Gra	ins.		n: PL=Pore Lini		
Hydric Soil I	ndicators:						Ir	ndicators for Pr	oblematic H	ydric Soils³:
Histosol	, ,		Dark Surface				_	2 cm Muck (	, ·	•
	pipedon (A2)		Polyvalue Be				148) _	Coast Prairie	, ,	
Black Hi			Thin Dark Su			47, 148)		(MLRA 14		(540)
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mar		2)		_	Piedmont Flo		(F19)
	ck (A10) <b>(LRR N)</b>		Redox Dark		:)			(MLRA 13	Dark Surface	(TF12)
	Below Dark Surface	(A11)	Depleted Dar	,	•		_	Other (Expla		
	ark Surface (A12)	,	Redox Depre				_			,
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masses	s (F12) <b>(I</b>	_RR N,				
	147, 148)		MLRA 13							
	leyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of h		-
	edox (S5)		Piedmont Flo					wetland hydro		
	Matrix (S6)		Red Parent N	Material (F2	1) <b>(MLR</b>	A 127, 147	')	unless disturb	ed or problem	natic.
	ayer (if observed):									
Type:			_							
	ches):		_				Hydric	Soil Present?	Yes	No
Remarks:										

Project/Site: Kensington	City/County: Colur	nbiana	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC	, , ,		Sampling Point: W-17
	Section, Township,		
Landform (hillslope, terrace, etc.): Depression			
Subregion (LRR or MLRA): LRRN			Datum: NAD 83
Soil Map Unit Name: Udorthents-Pits complex, (			
Are climatic / hydrologic conditions on the site typic			
	•		,
Are Vegetation, Soil, or Hydrology _			
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If	needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling poin	t locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes	No Is the Samp		
Hydric Soil Present? Yes	No Is the Sample within a Wet		No
Wetland Hydrology Present? Yes	No Within a Wei	ialiu? Fes	NO
Remarks: Cowardin Code: PEM	HGM: Depressional Wate	er Type: RPWWN	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	V Surface Soil	
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa	itterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Remarks	oots (C3) Moss Trim L	ines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soil	s (C6) Crayfish Bur	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)
Iron Deposits (B5)			Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
Water Table Present? Yes No	Depth (inches):		
	_	Wetland Hydrology Presei	-+2 V V N-
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	wetiand Hydrology Presei	nt? Yes / No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous inspection	ons), if available:	
Remarks:			

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.		Species?		Number of Dominant Species	2	
1				That Are OBL, FACW, or FAC:		(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	100	(A/B)
6						,
7				Prevalence Index worksheet:		
	0 .	= Total Cov	/er		ultiply by:	
50% of total cover:0	20% of	total cover	: 0	OBL species x 1 = _		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 = _		
1				FAC species x 3 = _		
2			·	FACU species x 4 = _		
3			·	UPL species x 5 = _		
			· ——	Column Totals: (A)		(B)
4				(,,		,
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicators:	:	
7				1 - Rapid Test for Hydrophytic Ve	egetation	
8			. ——	✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
•		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (F	Provide supp	ortina
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a sepa		3
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic Vegetat		١
1. Leersia oryzoides	60		OBL	1 Toblematic Hydrophytic Vegetat	lion (Explain	,
2. Echinochloa crus-galli	25		FAC	11-41-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4	le colora la secona se	1
3. Eleocharis palustris	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or proble		ust
4. Typha latifolia	10		OBL	Definitions of Four Vegetation Stra		
5				Definitions of Four Vegetation Stra	ıta.	
6				Tree – Woody plants, excluding vines		
7				more in diameter at breast height (DE height.	3H), regardles	ss of
8				noight.		
				Sapling/Shrub – Woody plants, exclusion		
9				than 3 in. DBH and greater than or ed m) tall.	qual to 3.28 ft	t (1
10				m, tan.		
11	105			Herb – All herbaceous (non-woody) p		lless
50% of total cover: <u>52.</u> 5		= Total Cov		of size, and woody plants less than 3.	.28 rt tall.	
	20% Of	total cover		Woody vine – All woody vines greate	er than 3.28 f	t in
Woody Vine Stratum (Plot size: 15' )				height.		
1						
2			·			
3			· <del></del>			
4				Hydrophytic		
5				Vegetation		
	0:	= Total Cov	_	Present? Yes No	°	
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)			•		

Profile Desc	ription: (Describe to	o the depth	n needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			c Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	2.5Y 5/1	98	7.5YR 5/4	2	С	M/PL	С	
					-			
					-			
					-		2	
	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.		L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Bel	low Surfac	ce (S8) (N	/ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black Hi	stic (A3)		Thin Dark Su	rface (S9)	(MLRA 1	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (I	F2)		P	iedmont Floodplain Soils (F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F	6)		V	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				0	ther (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangane	ese Masse	es (F12) <b>(</b>	LRR N,		
MLRA	\ 147, 148)		MLRA 136	6)				
Sandy G	Bleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and
Sandy R	tedox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	) unl	ess disturbed or problematic.
Restrictive I	_ayer (if observed):							
Type:								
Depth (in	ches).						Hydric Soil	Present? Yes V No No
Remarks:							,	
				144 41				
	na matrix color po	ossibly fro	m disturbance.	Wetland	d locate	d within o	construction	area with heavy clay sediment
deposits.								

Wetland ID W-17 Cowardin Code PEM Date 08/21/19



Photograph Number <u>65</u>
Photograph Direction <u>South</u>

Comments:



Photograph Number <u>66</u>
Photograph Direction South

Comments:

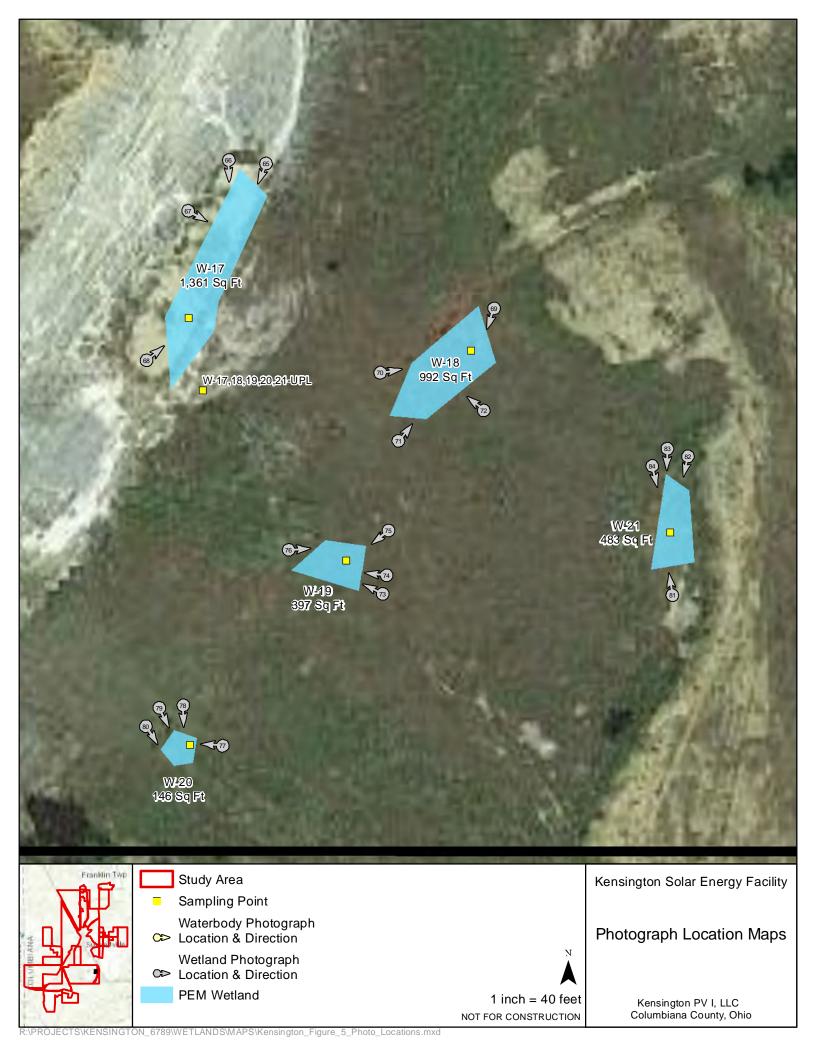


Photograph Number 67
Photograph Direction ESE

Comments:



Photograph Number 68
Photograph Direction NE



Project/Site: Kensington	City/County: _C	Columbiana	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC		State: OH	
	Section, Town		
Landform (hillslope, terrace, etc.): Depression	Local relief (conca		
Subregion (LRR or MLRA): LRRN		Long: -80.881286	
Soil Map Unit Name: Udorthents-Pits complex, 0			
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes	No (If no, explain in	Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	present? Yes V No
Are Vegetation, Soil, or Hydrology _			
SUMMARY OF FINDINGS – Attach site			
Hydrophytic Vegetation Present? Yes	/ No		
	Is the s	Sampled Area	
Wetland Hydrology Present?		a Wetland? Yes	No
Remarks: Cowardin Code: PEM	HGM: Depressional	Water Type: ISOLATE	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soi	l Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Liv	ing Roots (C3) Moss Trim I	_ines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4	1) Dry-Seasor	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tille		
Drift Deposits (B3)	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)		<del></del> ·	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aq	
Water-Stained Leaves (B9)			raphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	II Test (D5)
Field Observations:  Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches):	Wetlend Hudnelens Brees	
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hydrology Prese	nt? Yes V No
Describe Recorded Data (stream gauge, monitoring	ng well, aerial photos, previous ins	pections), if available:	
Remarks:			
Nemarks.			

20'		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Newsham of Dani's and
3				Total Number of Dominant Species Across All Strata: 2 (B)
				opedies Across Air Strata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B
6				Prevalence Index worksheet:
7				
	=	Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 0	20% of t	otal cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9		<del></del>		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% -{\table}		Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supportin
50% of total cover: 0	20% of t	otal cover:	<u> </u>	data in Remarks or on a separate sheet)
Herb Stratum (Flot Size)	00	,	ODI	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Scirpus cyperinus	60		OBL	
2. Carex vulpinoidea	20		OBL	The disease of budgie as it and watered budgets as your
3. Eleocharis palustris	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Juncus tenuis	10		FAC	Definitions of Four Vegetation Strata:
5				beninions of Four Vegetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	100 =	Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50	20% of t	otal cover:	20	
Woody Vine Stratum (Plot size: 15' )		•		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
I .				height.
2				
3				
4				Hydrophytic
5				Vegetation
	=	Total Cov	er	Present? Yes No
50% of total cover:0	20% of t	otal cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe to	o the depti	needed to docum	nent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	k Feature:	s			
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	2.5Y 5/2	98	7.5YR 4/4	2	С	M/PL	С	
0.								Potugal Compacted soil
8+								Refusal - Compacted soil
					-			
			<del>-</del>					
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RM=I	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: Pl	_=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indica	tors for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel	. ,	ce (S8) <b>(N</b>	ILRA 147.		oast Prairie Redox (A16)
Black Hi			Thin Dark Su		. , .		0	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, 1-0)	D	iedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat		1 2)		<u> </u>	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S		:6\		\/	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(//11)	Depleted Dar		,			ther (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre				0	the (Explain in Kemarks)
		DD N				I DD N		
	Mucky Mineral (S1) <b>(L</b> l	KK N,	Iron-Mangane		es (F12) (	LKK N,		
	A 147, 148)		MLRA 136		NU DA 40	0 400)	3,	Santana at bandarahati ana aratati dan arat
-	Gleyed Matrix (S4)		Umbric Surfa					cators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					tland hydrology must be present,
	Matrix (S6)		Red Parent M	1aterial (F	21) <b>(MLR</b>	A 127, 147	) unl	ess disturbed or problematic.
	Layer (if observed):							
Туре: <u>С</u> С	ompacted Soil							
Depth (in	ches): 8+						Hydric Soil	Present? Yes V No
Remarks:	, -							
rtomanto.								

Wetland ID W-18 Cowardin Code PEM Date 08/21/19



Photograph Number 69
Photograph Direction SSW

Comments:



Photograph Number \_\_\_\_70 \_\_\_ Photograph Direction East \_\_\_\_

Comments:



Photograph Number 71

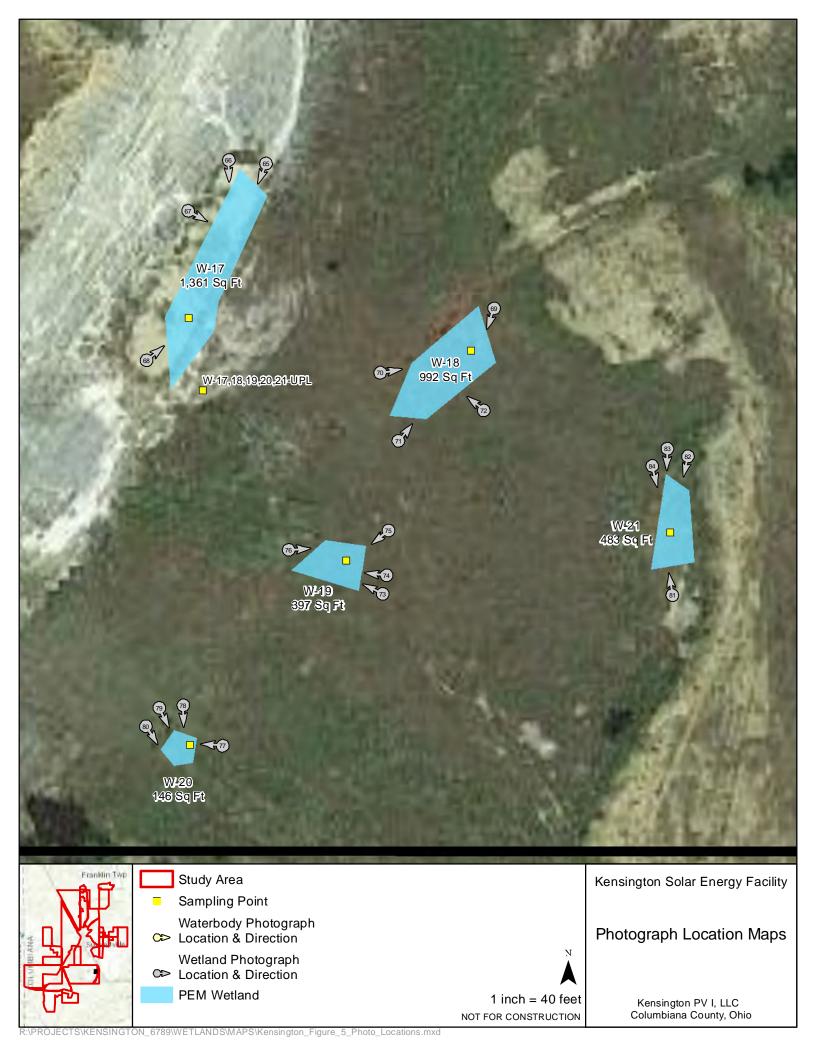
Photograph Direction SSW

Comments:



Photograph Number 72
Photograph Direction NW

s:			



Project/Site: Kensington	City/County: Columbia	ına	Sampling Date: 08/21/19		
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-19		
	Section, Township, Rang				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, conve				
Subregion (LRR or MLRA): LRRN		Datum: NAD 83			
Soil Map Unit Name: Udorthents-Pits complex,					
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in R	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "N	ormal Circumstances" ¡	present? Yes No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach sit					
Hydrophytic Vegetation Present? Yes	No Is the Sampled A				
	Is the Sampled A		N -		
Wetland Hydrology Present? Yes		? Yes <u>▼</u>	No		
Remarks: Cowardin Code: PEM	HGM: Depressional Water Ty	/pe: ISOLATE			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil			
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa			
Saturation (A3)	✓ Oxidized Rhizospheres on Living Roots (	(C3) Moss Trim L	ines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6	i) Crayfish Bur	rows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation V	isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)			Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu			
Water-Stained Leaves (B9)			Microtopographic Relief (D4)		
Aquatic Fauna (B13)		<u>✓</u> FAC-Neutral	Test (D5)		
Field Observations:	4				
	Depth (inches):				
	Depth (inches):				
Saturation Present? Yes No _ (includes capillary fringe)	Depth (inches): Wetla	and Hydrology Preser	nt? Yes V No		
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections),	if available:			
Remarks:					
1					

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
1100 Stratum (1 lot 3120.		Species?		Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4						(-)
				Percent of Dominant Species	100	
5				That Are OBL, FACW, or FAC:	100	(A/B)
6		· -		Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total Cov				
50% of total cover: 0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2	2 =	_
1				FAC species x :	3 =	_
2				FACU species x	4 =	
				UPL species x :		
3						
4				Column Totals: (A)	<i>-</i>	(D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicate		_
7				1 - Rapid Test for Hydrophyt		
8					-	
9				2 - Dominance Test is >50%		
0		= Total Cov	uor.	3 - Prevalence Index is ≤3.0		
50% of total cover: 0		total cover		4 - Morphological Adaptation	ıs¹ (Provide sup	porting
l	20 /6 01	iolai covei		data in Remarks or on a s	separate sheet)	
Helb Stratum (Flot Size)	60	~	OBL	Problematic Hydrophytic Veg	getation <sup>1</sup> (Expla	in)
1. Scirpus cyperinus						,
2. Carex vulpinoidea	20		OBL	<sup>1</sup> Indicators of hydric soil and wetl	and hydrology	muet
3. Eleocharis palustris	10		OBL	be present, unless disturbed or p		iliust
4. Juncus tenuis	10		FAC	Definitions of Four Vegetation		
5				Definitions of Four Vegetation	Otrata.	
6				Tree – Woody plants, excluding		
				more in diameter at breast height	ɪ (DBH), regard	less of
7				height.		
8		-		Sapling/Shrub – Woody plants,	excluding vines	s, less
9				than 3 in. DBH and greater than	or equal to 3.28	3 ft (1
10				m) tall.		
11				Herb – All herbaceous (non-woo	dv) plants, rega	ırdless
	100	= Total Cov	ver	of size, and woody plants less that		
50% of total cover:50	20% of	total cover	: <u>20</u>	Was decided Allowed Automateur		2011
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines grapheight.	reater than 3.20	o IL III
1				g.m		
2						
3			<del></del>			
4			<del></del>	Hydrophytic		
5	^			Vegetation Present? Yes	N-	
		= Total Cov	_	Present? Yes	No	
50% of total cover: 0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

nches) 0-8	Matrix Color (moist)	%	Redox Color (moist)	K Features % Ty	/pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
U U	2.5Y 5/2	98	7.5YR 4/4	2 C		C		IVEIIIAINS	
<del></del> -	2.51 5/2		7.511(4/4		1VI/1 L				
8+							Refu	sal - Compa	<u>acted soil</u>
							-		
						·			
							-		
						·			
							-		
		etion, RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: P			
ric Soil In								oblematic Hy	
Histosol (A	•		Dark Surface				•	(10) <b>(MLRA 1</b>	47)
	pedon (A2)		·		68) <b>(MLRA 147,</b>	<b>148)</b> C		Redox (A16)	
Black Hist					_RA 147, 148)	5	(MLRA 147	•	(E40)
	Sulfide (A4)		Loamy Gleye			P		odplain Soils (	(F19)
	Layers (A5) k (A10) <b>(LRR N)</b>		Depleted Mat Redox Dark \$			\/	(MLRA 130	Dark Surface	(TE12)
	Below Dark Surface	(A11)	Depleted Dar		)			n in Remarks)	
	k Surface (A12)	, (, (, , , ,	Redox Depre		,	~	Tiloi (Explai	ii iii rtomanto,	'
	ucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane		-12) <b>(LRR N,</b>				
	147, 148)	,	MLRA 130		, ,				
	eyed Matrix (S4)		Umbric Surfa	•	RA 136, 122)	<sup>3</sup> Ind	icators of hy	drophytic veg	etation and
Sandy Re	edox (S5)		Piedmont Flo	odplain Soils	(F19) <b>(MLRA 14</b>	<b>8)</b> we	tland hydrol	ogy must be p	resent,
Stripped N	Matrix (S6)		Red Parent M	faterial (F21)	(MLRA 127, 147	<b>7)</b> uni	less disturbe	ed or problema	atic.
	ayer (if observed):								
<sub>Type:</sub> <u>Cor</u>	mpacted Soil								
Depth (inch	nes): <u>8+</u>					Hydric Soil	Present?	Yes 🗸	No
narks:									

Wetland ID W-19 Cowardin Code PEM Date 08/21/19



Comments:



Photograph Number \_\_\_74 \_\_\_ Photograph Direction West

Comments:



Photograph Number \_\_\_\_75

Photograph Direction <u>SW</u>

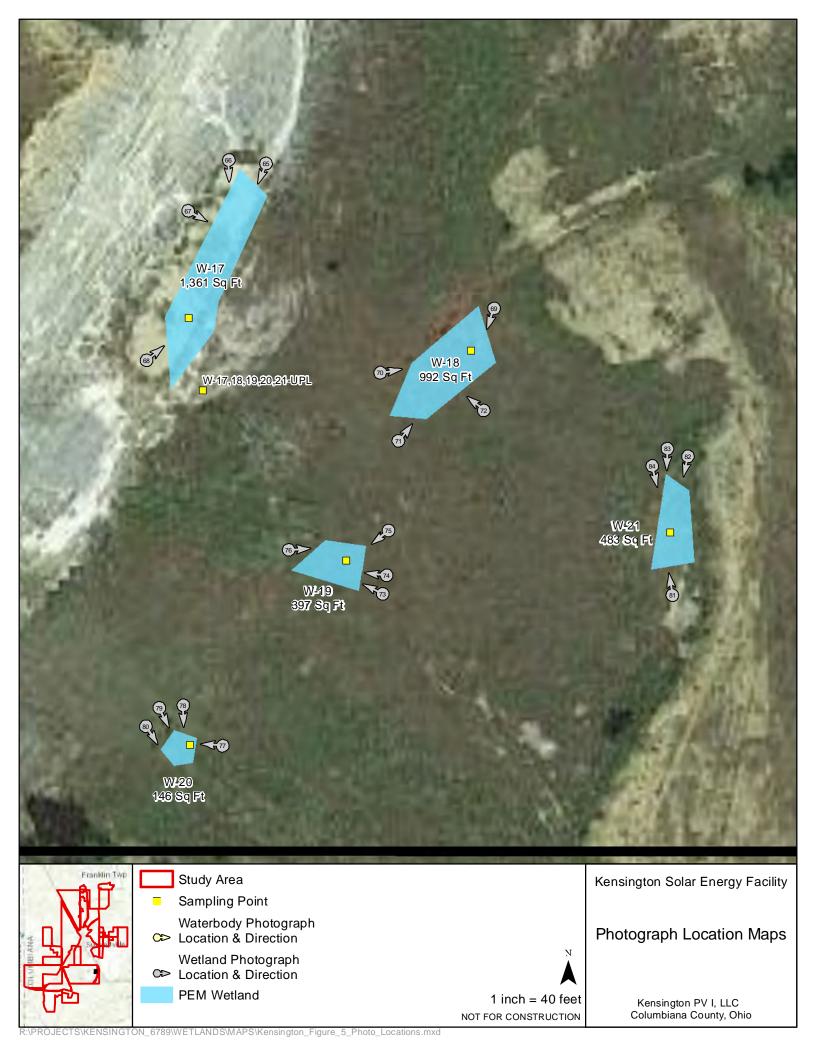
Comments:



Photograph Number 76

Photograph Direction East

•	
-	



Project/Site: Kensington	City/County: Columbiar	na	Sampling Date: 08/21/19		
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-20		
	Section, Township, Range				
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex				
Subregion (LRR or MLRA): LRRN	Lat: 40.669324				
Soil Map Unit Name: Udorthents-Pits complex,					
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in R	Remarks.)		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "No	rmal Circumstances" ر	present? Yes / No		
Are Vegetation, Soil, or Hydrology					
SUMMARY OF FINDINGS – Attach sit					
Hydrophytic Vegetation Present? Yes	No Is the Sampled Ar				
	Is the Sampled Ar		No		
Wetland Hydrology Present? Yes		res	NO		
Remarks: Cowardin Code: PEM	HGM: Depressional Water Ty	pe: ISOLATE			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is required; of	heck all that apply)	Surface Soil	Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Pa			
Saturation (A3)	Oxidized Rhizospheres on Living Roots (0)				
Water Marks (B1)	Presence of Reduced Iron (C4)	-	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	-			
☐ Drift Deposits (B3) ✓ Algal Mat or Crust (B4)	Thin Muck Surface (C7) Other (Explain in Remarks)		isible on Aerial Imagery (C9)		
Iron Deposits (B5)	Other (Explain in Remarks)		Stressed Plants (D1) Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	` '		
Water-Stained Leaves (B9)			aphic Relief (D4)		
Aquatic Fauna (B13)			FAC-Neutral Test (D5)		
Field Observations:			, ,		
Surface Water Present? Yes No	Depth (inches):				
	Depth (inches):				
		nd Hydrology Preser	nt? Yes ✔ No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	, , ,				
Describe Necorded Data (Stream gauge, monitor	ing well, aerial photos, previous inspections), ii	avaliable.			
Remarks:					
İ					

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	•	
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				openies / incress / in Chaia.		(-)
				Percent of Dominant Species	400	
5				That Are OBL, FACW, or FAC:	100	(A/B)
6				Prevalence Index worksheet:	_	
7					NA. deim la alba a	
	0	= Total Cov	/er	Total % Cover of:		
50% of total cover:0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
				FACU species x	4 =	
2				UPL species x		
3						
4			<del></del>	Column Totals: (A	)	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		_
7						
8				1 - Rapid Test for Hydrophyt	-	
				✓ 2 - Dominance Test is >50%	)	
9	_	<del></del>		3 - Prevalence Index is ≤3.0	1	
500, (, , )		= Total Cov		4 - Morphological Adaptation	ns <sup>1</sup> (Provide sup	porting
50% of total cover: 0	20% of	total cover	:	data in Remarks or on a s		
TIEID Stratum (1 lot size)				Problematic Hydrophytic Veg	• /	in)
1. Scirpus cyperinus	60		OBL	i Tobiematic Hydrophytic vet	Jetation (Expla	111)
2. Carex vulpinoidea	20	<b>✓</b>	OBL			
3. Eleocharis palustris	10		OBL	<sup>1</sup> Indicators of hydric soil and wetl		nust
4. Juncus tenuis	10		FAC	be present, unless disturbed or p		
				Definitions of Four Vegetation	Strata:	
5				Tree - Woody plants, excluding	vines, 3 in. (7.6	cm) or
6				more in diameter at breast height	t (DBH), regardl	ess of
7				height.		
8		-		Sapling/Shrub – Woody plants,	excluding vines	less
9				than 3 in. DBH and greater than		
10				m) tall.	·	·
11.				Hards All bards a same (as a sure	A. A. a. I. a. I. a.	
	100	= Total Cov	/or	<b>Herb</b> – All herbaceous (non-woo of size, and woody plants less that		raiess
50% of total cover:50	20% of	total cover	. 20	or ores, and mosely plants loss an	a 0.20 ta	
Woody Vine Stratum (Plot size: 15' )	2070 01	total oover		Woody vine – All woody vines g	reater than 3.28	ft in
				height.		
1						
2		-				
3						
4.				Uhadaaahadia		
5				Hydrophytic Vegetation		
	^	= Total Cov	/or	Present? Yes	No	
50% of total cover: 0		total cover	_			
		10101 00101	·			
Remarks: (Include photo numbers here or on a separate si	neet.)					

	Matrix	0/		x Features	1 1 2	Tautima		Davis	
(inches) 0-8	2.5Y 5/2	<u>%</u> 98	Color (moist) 7.5YR 4/4	2 C	<u>rpe<sup>1</sup> Loc<sup>2</sup></u> M/PL	Texture C		Remarks	
	2.51 5/2	90	7.51K 4/4		IVI/PL				
8+							Refu	<u>ısal - Compa</u>	acted soil
							-		
	naantration D Donl	otion DM	Dadward Matrix MS	Mooked Cor	od Croine	21 continue D	I Doro Lini	na M Matrix	
ype:  C=Co ∕dric Soil Iı	ncentration, D=Depl	etion, Rivi=	Reduced Matrix, MS	s=iviasked Sar	nd Grains.			ng, M=Matrix. roblematic Hy	dric Soils <sup>3</sup> .
_ Histosol (			Dark Surface	(97)				410) <b>(MLRA 1</b> 4	
	ipedon (A2)				S8) <b>(MLRA 147</b> ,		•	Redox (A16)	<del>'</del> '')
_ Black His					_RA 147, 148)	,	(MLRA 14		
	n Sulfide (A4)		Loamy Gleye	, , ,	, -,	P		odplain Soils (	F19)
	Layers (A5)		Depleted Mat				(MLRA 13		
	ck (A10) (LRR N)		Redox Dark S	, ,				Dark Surface	
	Below Dark Surface	(A11)		k Surface (F7	)	c	Other (Explain	in in Remarks)	
	rk Surface (A12)	DD 11	Redox Depre		-40) (I BB N				
	ucky Mineral (S1) (L . 147, 148)	KK N,	iron-iviangan	ese Masses (F	-12) <b>(LRR N,</b>				
	leyed Matrix (S4)			ce (F13) <b>(MLF</b>	2 Δ 136 122)	<sup>3</sup> Ind	licators of hy	ydrophytic veg	etation and
	edox (S5)				(F19) <b>(MLRA 1</b> 4			logy must be p	
	Matrix (S6)				(MLRA 127, 147			ed or problema	
	ayer (if observed):			, ,	·			· · · · · · · · · · · · · · · · · · ·	
_									
Туре: <u>С</u> О	mpacted Soil					11	Present?	Yes	No
Type: Co Depth (inc						Hyaric Soil	i i cociii.		
Depth (inc						Hydric Soil	11000111.	<u> </u>	
Depth (inc						Hydric Soil	Trosont.		
Depth (inc						Hydric Soli	T TOSCINE.		
Depth (inc						Hydric Soil	- resent:		
Depth (inc						Hydric Soil	Trosein.		
Depth (inc						Hydric Soil	Tresent.		
Depth (inc						Hydric Soil	Tresent:		
Depth (inc						Hydric Soil	Tresent.		
Depth (inc						Hydric Soil	Tresent.		
Depth (inc						Hydric Soil	T COSCILI.		
Depth (inc						Hydric Soil	T COSCILI.		
Depth (inc						Hydric Soil	T COSCILI.		
Depth (inc						Hydric Soil	T COSCILI.		
Depth (inc						Hydric Soil	T T C S C T T T T T T T T T T T T T T T		
Depth (inc						Hydric Soil			
Depth (inc						Hydric Soil			
· · ·						Hydric Soil			
Depth (inc						Hydric Soil			
Depth (inc						Hydric Soil			
Depth (inc						Hydric Soil			
Depth (inc						Hydric Soil			
Depth (inc						Hydric Soil			

Wetland ID W-20 Cowardin Code PEM Date 08/21/19



Comments:



Photograph Number \_\_\_78 \_\_\_Photograph Direction South

Comments:



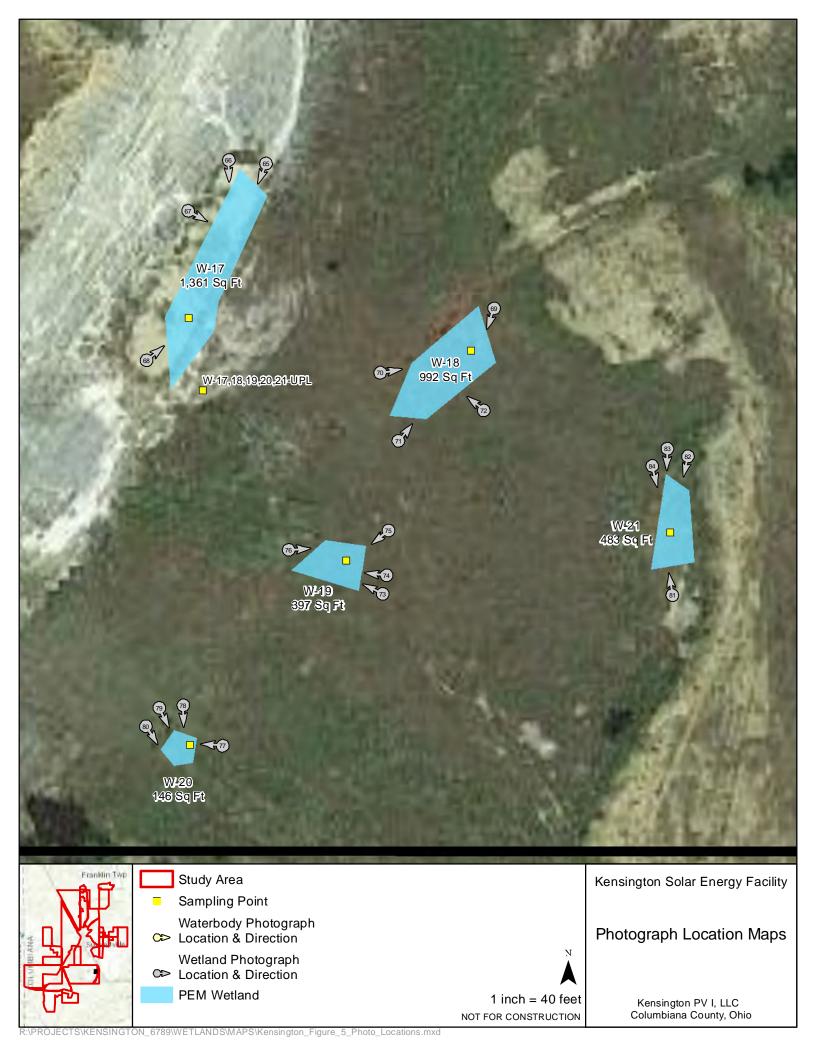
Photograph Number \_\_\_79

Photograph Direction SE

Comments:



Photograph Number 80
Photograph Direction SE



Project/Site: Kensington	City/County: Columbian	а	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-21
	Section, Township, Range:		
Landform (hillslope, terrace, etc.): Depression	Local relief (concave, convex,	none): Concave	Slope (%): 0
Subregion (LRR or MLRA): LRRN La	80.880991	Datum: NAD 83	
Soil Map Unit Name: Udorthents-Pits complex, 0 t			
Are climatic / hydrologic conditions on the site typical	for this time of year? Yes No	_ (If no, explain in R	demarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Nor	mal Circumstances" p	oresent? Yes 🗸 No
Are Vegetation, Soil, or Hydrology		d, explain any answe	
SUMMARY OF FINDINGS – Attach site	• •		
Hydrophytic Vegetation Present? Yes <u>✓</u>	No Is the Sampled Are	а	
Hydric Soil Present? Yes <u>✓</u>	No within a Wetland?	Yes <u>√</u>	No
Wetland Hydrology Present? Yes   ✓  Remarks: Coversion Code: PEM	No		
HYDROLOGY			
Wetland Hydrology Indicators:			ators (minimum of two required)
Primary Indicators (minimum of one is required; che		_ Surface Soil	
	_ True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	_ Hydrogen Sulfide Odor (C1)	Drainage Pa	
	Oxidized Rhizospheres on Living Roots (C		
Water Marks (B1) Sediment Deposits (B2)	<ul><li>Presence of Reduced Iron (C4)</li><li>Recent Iron Reduction in Tilled Soils (C6)</li></ul>	Dry-season Crayfish Bur	Water Table (C2)
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7)	•	isible on Aerial Imagery (C9)
✓ Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)
Iron Deposits (B5)	_ Guier (Explain in Remaile)		Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)			aphic Relief (D4)
Aquatic Fauna (B13)		✓ FAC-Neutral	-
Field Observations:			
	Depth (inches):		
Water Table Present? Yes No✓	Depth (inches):		
Saturation Present? Yes No	,	d Hydrology Preser	nt? Yes <u>√</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if	available:	
Remarks:			

6.\_\_\_\_\_\_ \_\_\_\_

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 = 20% of total cover: 0 = 20%

50% of total cover: 50 20% of total cover: 20

50% of total cover: 0 20% of total cover: 0

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15' )

3. Eleocharis palustris

Woody Vine Stratum (Plot size: 15')

nes of	plants.		Sampling F	oint:	W-21	
bsolute			Dominance Test worksheet:			
% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC	: <u> </u>	2	(A)
		·	Total Number of Dominant Species Across All Strata:		2	(B)
			Percent of Dominant Species That Are OBL, FACW, or FAC	: <u> </u>	100	(A/E
			Prevalence Index worksheet	:		
0	= Total Cov		Total % Cover of:	М	ultiply by:	
	total cover:	^	OBL species	x 1 =		_
_ 2070 01	total cover		FACW species	x 2 =		
			FAC species	x 3 =		
			FACU species			
			UPL species	x 5 =		
			Column Totals:	(A)		(B
			Prevalence Index = B/A			
		. <u> </u>	Hydrophytic Vegetation Indi			_
			✓ 1 - Rapid Test for Hydroph			
			✓ 2 - Dominance Test is >50	•	egetation	
			3 - Prevalence Index is ≤3	_		
0	= Total Cov	er _	4 - Morphological Adaptat		Provide sui	nortir
20% of	total cover	:0	data in Remarks or on			
00	,	ODI	Problematic Hydrophytic \			
60		OBL		· ogota	o (=,tp.:	,
20		OBL	<sup>1</sup> Indicators of hydric soil and w	etland	hvdrologv	must
10	-	OBL	be present, unless disturbed o	r prob	ematic.	
10		FAC	Definitions of Four Vegetation	on Stra	ata:	
			Tree – Woody plants, excludir more in diameter at breast height.			
			Sapling/Shrub – Woody plant than 3 in. DBH and greater tha m) tall.			
	= Total Cov		Herb – All herbaceous (non-w of size, and woody plants less	than 3	3.28 ft tall.	
			Woody vine – All woody vines height.	s great	er than 3.2	8 ft in
	= Total Cov	_	Hydrophytic Vegetation Present?  Yes   ✓	N	lo	

Remarks: (Include photo numbers here or on a separate sheet.)

Herb Stratum (Plot size: \_\_\_ 1. Scirpus cyperinus 2. Carex vulpinoidea

4. Juncus tenuis

Profile Desc	ription: (Describe to	o the deptl	needed to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix		Redox	(Features	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	2.5Y 5/2	98	7.5YR 4/4	2	С	M/PL	С	
8+								Refusal - Compacted soil
								Helusal - Compacted soil
			_					
			<del>.</del>					
¹Type: C=C	oncentration, D=Deple	etion RM=	Reduced Matrix MS	=Masked	Sand Gr	ains	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil		CHOII, IXIVI-I	reduced Matrix, MS	- Masked	Jana On	airio.		ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(\$7)				cm Muck (A10) <b>(MLRA 147)</b>
	oipedon (A2)		Polyvalue Bel		co (SO) <b>(N</b>	II DA 147		oast Prairie Redox (A16)
Black Hi			Thin Dark Su				146) C	(MLRA 147, 148)
			Loamy Gleye			47, 140)	D	
	n Sulfide (A4) d Layers (A5)		✓ Depleted Mat		ΓΖ)		<u> </u>	iedmont Floodplain Soils (F19) (MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark S		·c)		1/	ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(/11)	Depleted Dark					ther (Explain in Remarks)
	ark Surface (A12)	(A11)	Redox Depre				0	ulei (Explairili Remarks)
	lucky Mineral (S1) <b>(L</b> l	DD NI	Iron-Mangane			I DD NI		
	147, 148)	KK IV,	MLRA 136		es (F12) <b>(</b>	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		MIDA 12	C 122)	3Ind	icators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					tland hydrology must be present,
-	Matrix (S6)		Red Parent M					ess disturbed or problematic.
	Layer (if observed):		Red Falelit iv	iateriai (i	Z I) (WILK	A 127, 147	) un	ess disturbed of problematic.
	ompacted Soil							
J			<del></del>					
• •	ches): <u>8+</u>		<del></del>				Hydric Soil	Present? Yes <u>√</u> No
Remarks:								
İ								
1								
ı								

Wetland ID W-21 Cowardin Code PEM Date 08/21/19



Photograph Number 81
Photograph Direction North

Comments:



Photograph Number 82
Photograph Direction South

Comments:

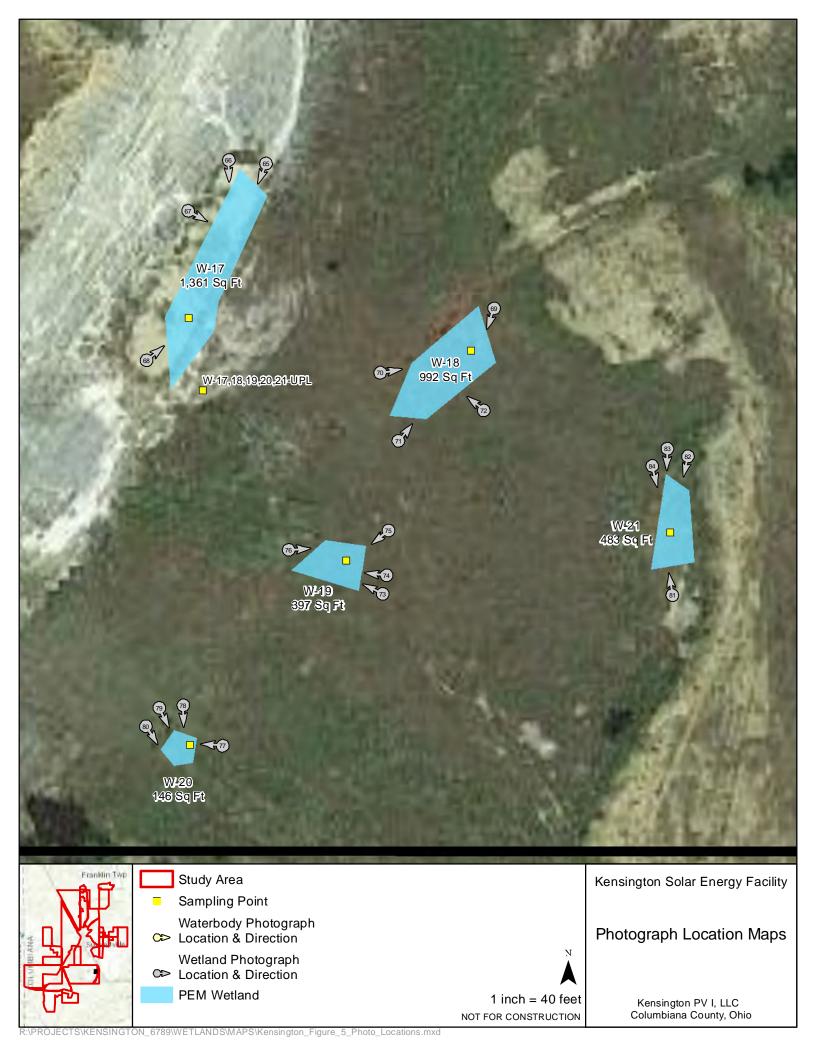


Photograph Number 83
Photograph Direction South

Comments:



Photograph Number 84
Photograph Direction SSE



Project/Site: Kensington	City/0	County: Columbiana		Sampling Date: 08/21/19	
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-17, 18, 19, 20, 21 UP	
	Secti	on, Township, Range: S			
Landform (hillslope, terrace, etc.): Hillslope				Slope (%): 0-3	
Subregion (LRR or MLRA): LRRN				Datum: NAD 83	
Soil Map Unit Name: Udorthents-Pits compl					
Are climatic / hydrologic conditions on the site					
Are Vegetation, Soil, or Hydrol					
Are Vegetation, Soil, or Hydrol			explain any answers	,	
SUMMARY OF FINDINGS – Attach	site map showing san	npling point location	ons, transects,	important features, etc.	
Hydrophytic Vegetation Present? Ye	s No				
Hydric Soil Present? Ye	No	Is the Sampled Area within a Wetland?	Vas	No ✓	
Wetland Hydrology Present? Ye	s No	within a wetiand:	163		
Remarks: Cowardin Code: UPLAN	D HGM:	Water Type:			
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicat	ors (minimum of two required)	
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil C	` '	
Surface Water (A1)	True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Patt		
Saturation (A3)	Oxidized Rhizospher	res on Living Roots (C3)			
Water Marks (B1)	Presence of Reduce	, ,	Dry-Season V		
Sediment Deposits (B2)		on in Tilled Soils (C6)	Crayfish Burro		
Drift Deposits (B3)	Thin Muck Surface (			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)	Other (Explain in Re	marks)	Stunted or Str		
Iron Deposits (B5)	<b>7</b> \		Geomorphic F		
Inundation Visible on Aerial Imagery (B7	)		Shallow Aquita		
Water-Stained Leaves (B9) Aquatic Fauna (B13)			FAC-Neutral	, ,	
Field Observations:			I AO-Neuliai	Test (D3)	
	No Depth (inches):				
	No Depth (inches):				
	No Depth (inches):		Hydrology Present	t? Yes No ✔	
(includes capillary fringe)				165	
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, pre	evious inspections), if ava	ailable:		
Remarks:					
Tromano.					
				1	

0.01	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC:0 (A)
2				Total Number of Descions
3				Total Number of Dominant Species Across All Strata: 4 (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 0% (A/B)
				That Are OBL, FACW, or FAC:(A/B)
				Prevalence Index worksheet:
7	0	Tatal Car		Total % Cover of: Multiply by:
50% of total cover: 0		= Total Cov		OBL species x 1 =
	20 /6 01	total cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15' )				FAC species x 3 =
1				FACU species x 4 =
2				1
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6	-	-		Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9.				2 - Dominance Test is >50%
<u> </u>	0	= Total Cov	or.	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0		total cover	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )	2070 01	total cover		data in Remarks or on a separate sheet)
1. Solidago canadensis	40	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Daucus carota	15		UPL	
	15	~		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Phleum pratense			FACU FACU	be present, unless disturbed or problematic.
4. Lotus corniculatus	15		FACU_	Definitions of Four Vegetation Strata:
5. Cichorium intybus	5		FACU_	Trans. Was dead as to social discussions 2 is (7.0 cm) as
6. Trifolium pratense	5		FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11	-	-		
· · · · · · · · · · · · · · · · · · ·	95	Tatal Car		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5		= Total Cov		or size, and woody plants less than 3.20 it tall.
Woody Vine Stratum (Plot size: 15' )	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
/ (Flot size)				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover:0	20% of	total cover	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the ir	ndicator o	or confirm	the abse	ence of indicators.	)	
Depth	Matrix		Redo	x Features	i					
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textur		Remarks	
0-10	7.5Y 4/4	100					GrC	<u> </u>		_
10+									Refusal	
							-			
										_
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=Re	educed Matrix, MS	S=Masked	Sand Gra	ins.		n: PL=Pore Lining,		
Hydric Soil I	ndicators:						li	ndicators for Prob	lematic Hydri	c Soils³:
Histosol	(A1)		Dark Surface	(S7)			_	2 cm Muck (A10	) (MLRA 147)	
Histic Ep	ipedon (A2)	•	Polyvalue Be				148) _	Coast Prairie Re	edox (A16)	
Black Hi		,	Thin Dark Su	, ,	•	47, 148)		(MLRA 147, 1		
	n Sulfide (A4)		Loamy Gleye		<del>-</del> 2)		_	Piedmont Flood		9)
	Layers (A5)	•	Depleted Mat		-\			(MLRA 136, 1	•	
	ck (A10) <b>(LRR N)</b> Below Dark Surface	(111)	Redox Dark S Depleted Dar				_	Very Shallow Da Other (Explain in		-12)
	rk Surface (A12)	(A11)	Redox Depre				_	Other (Explain ii	i Kemarks)	
	lucky Mineral (S1) <b>(L</b> l	RR N.	Iron-Mangan			.RR N.				
	147, 148)	· · · · · · · · · · · · · · · · · · ·	MLRA 13		(	· · · · · · · · · · · · · · · · ·				
	leyed Matrix (S4)		Umbric Surfa		MLRA 130	6, 122)		<sup>3</sup> Indicators of hydro	ophytic vegeta	tion and
Sandy R	edox (S5)		Piedmont Flo	odplain So	oils (F19)	(MLRA 148	8)	wetland hydrolog	y must be pres	ent,
	Matrix (S6)	,	Red Parent N	Material (F2	21) <b>(MLR</b>	<b>127, 147</b>	")	unless disturbed	or problematic	
	ayer (if observed):									
	mpacted Soil		_							
Depth (ind	ches): <u>10+</u>		_				Hydric	Soil Present? Y	'es N	lo <u> </u>
Remarks:							1			

Project/Site: Kensington	City/C	county: Columbiana		Sampling Date: 08/21/19		
Applicant/Owner: Kensington PV I, LLC		=		Sampling Point: W-22		
	Section					
Landform (hillslope, terrace, etc.): Depression				Slope (%): 0-3		
Subregion (LRR or MLRA): LRRN	Lat: 40 668024			Datum: NAD 83		
Soil Map Unit Name: Fairpoint very channery						
•						
Are climatic / hydrologic conditions on the site ty	•			,		
Are Vegetation, Soil, or Hydrolog						
Are Vegetation, Soil, or Hydrolog	gy naturally problema	atic? (If needed, ex	xplain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS – Attach s	site map showing sam	pling point location	ns, transects	, important features, etc.		
Hydrophytic Vegetation Present? Yes	✓ No					
Hydric Soil Present? Yes	,	Is the Sampled Area within a Wetland?	v /	No		
Wetland Hydrology Present? Yes		within a wetland?	resv	NO		
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: N	IRP\\\\\\			
Cowarani Code. 1 Elvi	Trown. Glope	vator Typo. N	IIXI VVVV			
HYDROLOGY						
Wetland Hydrology Indicators:		<u> </u>		tors (minimum of two required)		
Primary Indicators (minimum of one is required			Surface Soil			
Surface Water (A1)	True Aquatic Plants (			getated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Od		✓ Drainage Pat			
Saturation (A3)	✓ Oxidized Rhizosphere	•	Moss Trim Li			
Water Marks (B1)	Presence of Reduced		•	Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reductio		Crayfish Burr			
Drift Deposits (B3)						
Iron Deposits (B5)	Other (Explain in Ner	<u></u>	Geomorphic			
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aqui			
Water-Stained Leaves (B9)		_		phic Relief (D4)		
Aquatic Fauna (B13)		<u>.</u>	✓ FAC-Neutral	-		
Field Observations:						
	Depth (inches):					
Water Table Present? Yes No	Depth (inches):					
	Depth (inches):	Wetland Hy	drology Presen	t? Yes <u>√</u> No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well, aerial photos, pre	vious inspections), if availa	able:			
gaage,e.	ioning tron, donal priotos, pro	Troub moposition, in a valid	a			
Remarks:						

50% of total cover: \_\_\_0

50% of total cover: <u>57.5</u> 20% of total cover: <u>23</u>

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15'

2 Carex vulpinoidea

Woody Vine Stratum (Plot size: 15')

nes of plants.	Sampli	ing Point	: <u>W-22</u>				
bsolute Dominant Indic		heet:					
% Cover Species? Sta	Number of Dominant Spo That Are OBL, FACW, or		1	_ (A)			
	Total Number of Domina Species Across All Strata		1	_ (B)			
	Percent of Dominant Spe That Are OBL, FACW, or		100	_ (A/E			
	Prevalence Index works	sheet:					
0 = Total Cover	Total % Cover of:	N	Multiply by:				
20% of total cover: 0	OBL species	x 1 =					
2070 of total cover.	FACW species	x 2 =	:				
	FAC species						
	FACU species						
	UPL species						
	Column Totals:	(A)		<u> </u>			
	Column rotals.	(A)	-	(D			
	Prevalence Index	= B/A =					
	Hydrophytic Vegetation	1 Indicator	s:				
<del></del>	— ✓ 1 - Rapid Test for Hy	ydrophytic \	Vegetation				
			3				
	3 - Prevalence Index	c is ≤3.0 <sup>1</sup>					
0 = Total Cover	4 - Morphological Ac	daptations <sup>1</sup>	(Provide su	upportir			
20% of total cover: 0	data in Remarks	•					
75 ( 00)	Duchlomatic Hudrani						
75 <b>√</b> OBL	· <u> </u>	nyuo vogot	ation (Expi	uii,			
20 OBL	Indicators of hydric soil	and wetlan	d hydrology	must			
OBL	be present, unless distur	bed or prob	olematic.	must			
FAC	Definitions of Four Veg	etation Str	rata:				
		<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of height.					
	Sapling/Shrub – Woody than 3 in. DBH and great m) tall.						
115 = Total Cover 20% of total cover: 23	of size, and woody plants	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.					
	Woody vine – All woody height.	vines grea	iter than 3.2	28 ft in			
0 = Total Cover 20% of total cover: 0		<u> </u>	No				

Remarks: (Include photo numbers here or on a separate sheet.)

Herb Stratum (Plot size: \_\_\_ 1. Leersia oryzoides

4. Juncus effusus

3. Carex frankii

Depth	Matrix	%	Redo:	x Features	pe <sup>1</sup> Loc <sup>2</sup>	Toyturo	Domarko				
inches) 0-10	Color (moist) 2.5Y 5/2	98	Color (moist) 7.5YR 5/4		pe <sup>1</sup> <u>Loc<sup>2</sup></u> M/PL	Texture C	Remarks				
							-				
10-16	5Y 5/1	95	7.5YR 5/4	<u>5</u> C	M/PL	C					
							-				
pe: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked San	d Grains.	<sup>2</sup> Location: PI	L=Pore Lining, M=Matrix.				
dric Soil I	ndicators:					Indica	ators for Problematic Hydric Soils <sup>3</sup>				
Histosol			Dark Surface				cm Muck (A10) (MLRA 147)				
	pipedon (A2)				8) <b>(MLRA 147</b> ,	<b>148)</b> C	oast Prairie Redox (A16)				
Black His				rface (S9) (ML	.RA 147, 148)	Б.	(MLRA 147, 148)				
	n Sulfide (A4) I Layers (A5)					P	iedmont Floodplain Soils (F19)				
	ck (A10) <b>(LRR N)</b>		✓Depleted Matrix (F3)(MLRA 136, 147) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12)								
	Below Dark Surface	e (A11)		k Surface (F7)			other (Explain in Remarks)				
Thick Da	rk Surface (A12)			Redox Depressions (F8)							
	lucky Mineral (S1) <b>(L</b>	.RR N,	-	ese Masses (F	12) <b>(LRR N,</b>						
	147, 148)		MLRA 13			3, ,					
	leyed Matrix (S4) edox (S5)			ce (F13) <b>(MLR</b>	<b>XA 136, 122)</b> F19) <b>(MLRA 1</b> 4		icators of hydrophytic vegetation and tland hydrology must be present,				
-	Matrix (S6)			•	MLRA 127, 147		less disturbed or problematic.				
	_ayer (if observed):			iatoriai (i 2 i) (			ioss distalbed of problemade.				
Туре:	,										
Depth (inc	ches):					Hydric Soil	Present? Yes ✓ No				
marks:	,										

Wetland ID W-22 Cowardin Code PEM Date 08/21/19



Photograph Number <u>85</u>
Photograph Direction <u>SW</u>

Comments:



Photograph Number 86

Photograph Direction SW

Comments:



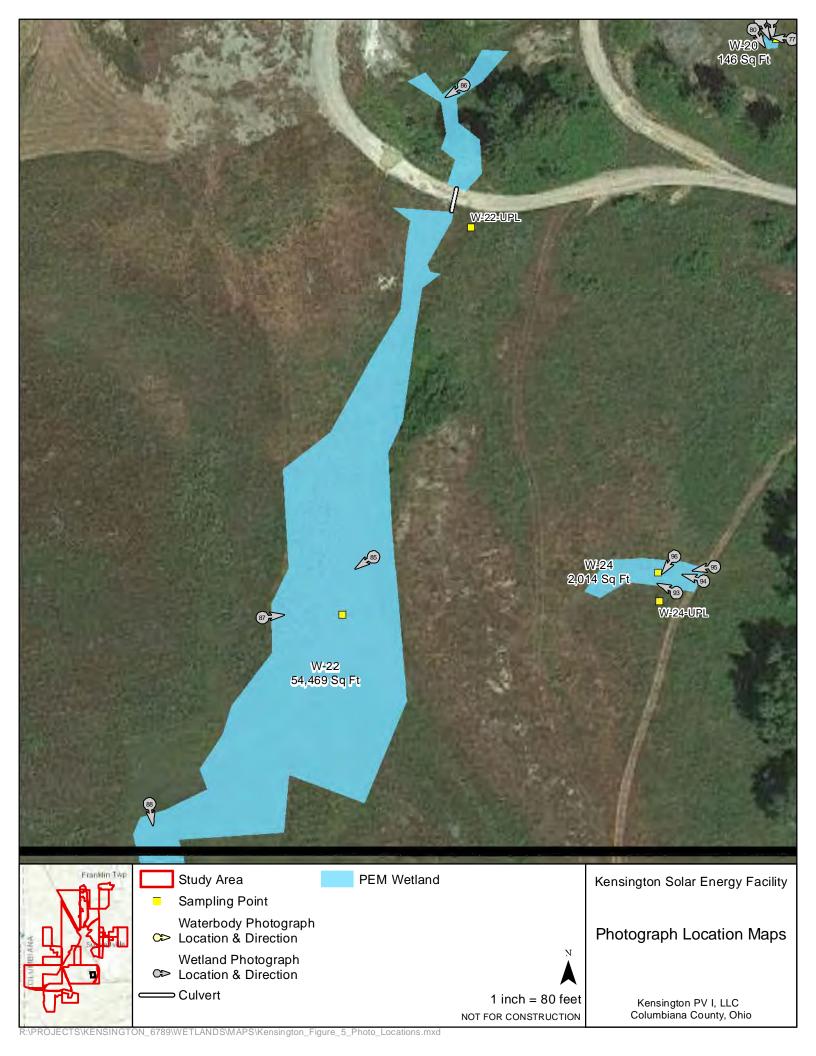
Photograph Number 87

Photograph Direction East

Comments:



Photograph Number 88
Photograph Direction SSE



Project/Site: Kensington	City/County:	Columbiana	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-22 UPL
		nship, Range: S26 T14N R4V	
Landform (hillslope, terrace, etc.): Hillslope			
Subregion (LRR or MLRA): LRRN		Long: -80.882644	
Soil Map Unit Name: Udorthents-Pits complex, 0			
•			
Are climatic / hydrologic conditions on the site typica			,
Are Vegetation, Soil, or Hydrology _			
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any ansv	wers in Remarks.)
SUMMARY OF FINDINGS – Attach site	map showing sampling	point locations, transec	ts, important features, etc.
Hydrophytic Vegetation Present? Yes	No_ ✓		
Hydric Soil Present? Yes	No_ ✓ within	Sampled Area n a Wetland? Yes	No ✓
Wetland Hydrology Present? Yes	No ✓	i a wedalu: 165	NO
Remarks: Cowardin Code: UPLAND		Water Type:	
Commitme Code: Of EAND		rrator Typo.	
HYDROLOGY			
Wetland Hydrology Indicators:			icators (minimum of two required)
Primary Indicators (minimum of one is required; ch		Surface So	
	True Aquatic Plants (B14)		/egetated Concave Surface (B8)
	<ul><li>Hydrogen Sulfide Odor (C1)</li><li>Oxidized Rhizospheres on L</li></ul>		Patterns (B10) Lines (B16)
	Oxidized Rhizospheres on L Presence of Reduced Iron (	_	on Water Table (C2)
	Recent Iron Reduction in Till	•	Surrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	•	Visible on Aerial Imagery (C9)
·	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)	,		nic Position (D2)
Inundation Visible on Aerial Imagery (B7)		·	quitard (D3)
Water-Stained Leaves (B9)		Microtopo	graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neuti	ral Test (D5)
Field Observations:	,		
	Depth (inches):		
	Depth (inches):		_
	Depth (inches):	Wetland Hydrology Pres	sent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitorir	g well, aerial photos, previous ir	l nspections), if available:	
		· 	
Remarks:			

#### VEGETATION (Four Strata) - Use scientific names of plants.

\_)

50% of total cover: \_\_\_0

50% of total cover: \_\_\_\_

Sapling/Shrub Stratum (Plot size: 15' )

Woody Vine Stratum (Plot size: 15')

0 \_\_ = Total Cover

\_\_ 20% of total cover:\_\_ 0

0 = Total Cover

20% of total cover:

95 = Total Cover

15

15

5

5

**UPL** 

Tree Stratum (Plot size:

Herb Stratum (Plot size:

1. Solidago canadensis

2. Daucus carota

3. Phleum pratense

4. Lotus corniculatus

5. Cichorium intybus

6. Trifolium pratense

Sampling Point: W-22 UPL Absolute Dominant Indicator Dominance Test worksheet: % Cover Species? Status **Number of Dominant Species** 0 \_\_\_ (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 4 (B) Species Across All Strata: Percent of Dominant Species 0 \_ (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) **FACU** <sup>1</sup>Indicators of hydric soil and wetland hydrology must **FACU** be present, unless disturbed or problematic. **FACU Definitions of Four Vegetation Strata: FACU** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or **FACU** more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation s\_\_\_\_ No\_**√**\_\_

	$\frac{0}{50\% \text{ of total cover:}} = \frac{0}{20\% \text{ of total cover:}} = \frac{0}{0}$	Present?	Yes
Remarks:	(Include photo numbers here or on a separate sheet.)		

50% of total cover: 47.5 20% of total cover: 19

Depth Matrix	Redox Features	T	D
inches)         Color (moist)         %           0-12         2.5Y 4/4         100	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture CL	Remarks
		CL	-
12+			Refusal - Compacted Soils
<del></del>			
			-
ype: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Grains.		L=Pore Lining, M=Matrix.
ydric Soil Indicators:		Indica	ators for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1)	Dark Surface (S7)	2	cm Muck (A10) (MLRA 147)
_ Histic Epipedon (A2)	Polyvalue Below Surface (S8) (MLRA 147,	, <b>148)</b> C	coast Prairie Redox (A16)
_ Black Histic (A3)	Thin Dark Surface (S9) (MLRA 147, 148)		(MLRA 147, 148)
_ Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	P	riedmont Floodplain Soils (F19)
_ Stratified Layers (A5)	Depleted Matrix (F3)		(MLRA 136, 147)
_ 2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)		(ery Shallow Dark Surface (TF12)
_ Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	0	Other (Explain in Remarks)
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148)	Iron-Manganese Masses (F12) (LRR N, MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and
_ Sandy Gleyed Matrix (34) _ Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 14		etland hydrology must be present,
_ Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147		less disturbed or problematic.
estrictive Layer (if observed):		1	less distarbed of problemade.
Type: Compacted Soil			
Depth (inches): Refusal		Hydric Soil	Present? Yes No _✓
emarks:		,	
emarks.			

Project/Site: Kensington	City/County:	Columbiana	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC		State: OH	
		wnship, Range: S26 T14N R4W	
Landform (hillslope, terrace, etc.): Hillslope	Local relief (co	ncave, convex, none): Concave	Slope (%): 0-3
Subregion (LRR or MLRA): LRRN		Long: -80.88473	
Soil Map Unit Name: Fairpoint very channery sil		•	
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes	$\checkmark$ No (If no, explain in I	Remarks.)
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrology _	naturally problematic?	(If needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling	g point locations, transect	s, important features, etc.
Hydrophytic Vegetation Present? Yes  Hydric Soil Present? Yes	/	e Sampled Area	
Wetland Hydrology Present? Yes	No with	in a Wetland? Yes <u>√</u>	No
Remarks: Cowardin Code: PEM	HGM: Slope	Water Type: NRPWW	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)	Surface Soi	Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1	_	
Saturation (A3)	✓ Oxidized Rhizospheres on I	•	
Water Marks (B1)	Presence of Reduced Iron (	-	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Ti	-	
Drift Deposits (B3)	Thin Muck Surface (C7)		/isible on Aerial Imagery (C9)
✓ Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stressed Plants (D1)
Iron Deposits (B5)		•	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>		Microtopogr ✓ FAC-Neutra	aphic Relief (D4)
		<u>▼</u> FAC-Neutra	ir rest (D5)
Field Observations: Surface Water Present? Yes No	✓ Depth (inches):		
	Depth (inches):		
Saturation Present? Yes No (includes capillary fringe)	✓ Depth (inches):	Wetland Hydrology Prese	nt? Yes <u>√</u> No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previous	inspections), if available:	
Remarks:			

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-23

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Flot Size)	% Cover	Species?	Status	Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4						
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	100	(A/B)
6.				mat Are OBL, I ACW, of I AC.		(A/D)
				Prevalence Index worksheet:		
7		= Total Cov		Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x	1 =	
Sapling/Shrub Stratum (Plot size: 15' )	20 /6 01	total cover		FACW species x :		
Japingranias aratam (1 lot size				FAC species x :		
1				FACU species x		
2						
3				UPL species x :		
4				Column Totals: (A)	)	_ (B)
5				Prevalence Index = B/A =		
6		ī		Hydrophytic Vegetation Indicate		_
7				5		
8				1 - Rapid Test for Hydrophyt	-	
9				✓ 2 - Dominance Test is >50%	_	
v		= Total Cov	/or	3 - Prevalence Index is ≤3.0		
50% of total cover:0		total cover		4 - Morphological Adaptation		porting
Herb Stratum (Plot size: 5' )		10101 00101	•	data in Remarks or on a s	separate sheet)	
1. Carex stricta	50	1	OBL	Problematic Hydrophytic Veg	getation¹ (Expla	in)
2. Juncus effusus	20		FACW			
3. Scirpus cyperinus	15		- —	<sup>1</sup> Indicators of hydric soil and wetl	and hydrology r	nust
4. Cyperus esculentus	10		OBL	be present, unless disturbed or p	roblematic.	
			FACW	Definitions of Four Vegetation	Strata:	
5. Carex lurida	10		OBL FACW	Tree – Woody plants, excluding v	vines 3 in (7.6	cm) or
6. Verbena hastata	10		FACW	more in diameter at breast height		
7				height.	. , ,	
8				Sapling/Shrub – Woody plants,	excluding vines	less
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11		ī		Herb – All herbaceous (non-woo	dv) nlants rega	rdless
	115	= Total Cov	/er	of size, and woody plants less that		laloss
50% of total cover: <u>57.5</u>				NA - december Allers de discons	2 26	. <b>6.</b> :
Woody Vine Stratum (Plot size:15')				<b>Woody vine</b> – All woody vines grapheight.	reater than 3.28	it in
1				noigna		
2						
3			·			
4						
5		-		Hydrophytic		
<u> </u>	^	= Total Cov	ıor	Vegetation Present? Yes ✓	No	
50% of total cover: 0		total cover	_			
Remarks: (Include photo numbers here or on a separate sl			•			
remains. (include prioto numbers nere or on a separate si	iicet.)					

(inches)         Color (moist)         %         Type¹           0-10         2.5Y 4/2         98         7.5YR 5/4         2         C           10+	M/PL	C Refusa	Remarks  Il - Compacted Soil
	1V//1 L		l - Compacted Soil
		Helusa	ii - Compacted Soil
	 	<del></del>	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand G	Grains. <sup>2</sup> Lo	ocation: PL=Pore Lining,	
ydric Soil Indicators:			lematic Hydric Soils <sup>3</sup> :
Histosol (A1) Dark Surface (S7)	/BALDA 447 440	2 cm Muck (A10	
<ul><li>Histic Epipedon (A2)</li><li>Black Histic (A3)</li><li>Polyvalue Below Surface (S8)</li><li>Thin Dark Surface (S9) (MLRA</li></ul>		) Coast Prairie Re (MLRA 147, 1	
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2)	1 147, 140)		lplain Soils (F19)
_ Stratified Layers (A5)		(MLRA 136,	
_ 2 cm Muck (A10) (LRR N) Redox Dark Surface (F6)			ark Surface (TF12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)		Other (Explain i	n Remarks)
Thick Dark Surface (A12) Redox Depressions (F8)	/LDD N		
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) MLRA 147, 148) MLRA 136)	(LKK N,		
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 1	136. 122)	<sup>3</sup> Indicators of hydr	ophytic vegetation and
Sandy Redox (S5)  — Piedmont Floodplain Soils (F19)			y must be present,
Stripped Matrix (S6) Red Parent Material (F21) (ML		unless disturbed	or problematic.
estrictive Layer (if observed):			
Type: Compacted Soil			
Depth (inches): 10+	н	ydric Soil Present? Y	/es <u> </u>
emarks:			

# **Wetland Photograph Page**

Wetland ID W-23 Cowardin Code PEM Date 08/21/19



Photograph Number 89
Photograph Direction South

Comments:



Photograph Number 90
Photograph Direction South

Comments:



Photograph Number 91
Photograph Direction SSE

Comments:



Photograph Number 92
Photograph Direction NNE

Comments:



Project/Site: Kensington	City/Coun	<sub>ity:</sub> Columbiana	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC		State: OH	
		Fownship, Range: S26 T14N R4	
Landform (hillslope, terrace, etc.): Hillslope		concave, convex, none): Linear	
Subregion (LRR or MLRA): LRRN			
Soil Map Unit Name: Fairpoint very channery			
Are climatic / hydrologic conditions on the site type	oical for this time of year? Yes _	No (If no, explain ir	n Remarks.)
Are Vegetation, Soil, or Hydrolog	v significantly disturbed	? Are "Normal Circumstance:	s" present? Yes V
Are Vegetation, Soil, or Hydrolog			
SUMMARY OF FINDINGS – Attach s			
			· · ·
	No.	the Sampled Area	
	No wi	thin a Wetland? Yes	No
Demarks		Water Type:	
Cowardin Code: UPLAND	HGM:	Water Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Inc	licators (minimum of two required)
Primary Indicators (minimum of one is required	check all that apply)		oil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14		Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (0		Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres o		n Lines (B16)
Water Marks (B1)	Presence of Reduced Iro		on Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in		Burrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)		Nisible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remark		r Stressed Plants (D1)
Iron Deposits (B5)	` .		nic Position (D2)
Inundation Visible on Aerial Imagery (B7)		<del></del>	quitard (D3)
Water-Stained Leaves (B9)			graphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neut	
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches):		sent? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well serial photos previou	is inspections) if available:	
Beschibe Recorded Bata (stream gauge, months	omig wen, aenai priotos, previoc	is inspections), if available.	
Remarks:			

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-23 UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tree otratum (Frot Size.		Species?		Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				op a second seco		(-)
				Percent of Dominant Species	0	
5				That Are OBL, FACW, or FAC:	0	(A/B)
6				Prevalence Index worksheet:		
7					N A I & inc la Inc	
		= Total Cov		Total % Cover of:		
50% of total cover:0	20% of	total cover:	. 0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
2				FACU species x	4 =	_
				UPL species x		
3				Column Totals: (A		
4				Coldifii Totals (A	.)	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		_
7						
8				1 - Rapid Test for Hydrophyt		
9				2 - Dominance Test is >50%		
<u>.                                    </u>	_	= Total Cov		3 - Prevalence Index is ≤3.0		
50% of total cover:0				4 - Morphological Adaptation	ns¹ (Provide sup	porting
E	20% 01	lotal cover.		data in Remarks or on a	separate sheet)	
TIEID Stratum (1 lot size.	30	~	FACU	Problematic Hydrophytic Ve	getation <sup>1</sup> (Expla	in)
1. Trifolium pratense						,
2. Medicago sativa	30		UPL	<sup>1</sup> Indicators of hydric soil and wet	land hydrology r	nuet
3. Plantago major	15		FACU_	be present, unless disturbed or p		iiust
4. Phleum pratense	15		FACU_	Definitions of Four Vegetation		
5. Achillea millefolium	5		FACU	Zommione or road rogotation	on and	
6. Cyperus esculentus	5		FACW	Tree – Woody plants, excluding		
7				more in diameter at breast heigh height.	it (DBH), regardl	ess of
				neight.		
8				Sapling/Shrub - Woody plants,		
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-woo	ody) plants, rega	rdless
	100	= Total Cov	er	of size, and woody plants less th	an 3.28 ft tall.	
50% of total cover: 50	20% of	total cover:	20	Woody vine – All woody vines g	rootor than 2 29	ft in
Woody Vine Stratum (Plot size: 15' )				height.	reater than 5.20	11 111
1						
2						
3						
4						
				Hydrophytic		
5	^	T-1-1-0		Vegetation Yes	No 🗸	
50% of total cover: 0		= Total Cov	_	100		
		total cover:				
Remarks: (Include photo numbers here or on a separate sl	heet.)					

Depth	Matrix		needed to document the i Redox Feature:	3	5550		- ,	
(inches)	Color (moist)		Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-12	7.5YR 4/4	100			C			
12+						(	Compacted	d Soils
							•	
vne: C=Cc	oncentration D=Denl	etion RM=Re	educed Matrix, MS=Masked	Sand Grains	<sup>2</sup> Location: P	I =Pore Linia	ng M=Matrix	
	ndicators:	ouon, ruvi–ru	dadoa Matrix, MO-Maskoa	Caria Grains.				ydric Soils <sup>3</sup> :
_ Histosol			Dark Surface (S7)				A10) <b>(MLRA</b>	-
	pipedon (A2)	•	Polyvalue Below Surfa	ce (S8) <b>(MLRA 147.</b>		•	Redox (A16)	•
Black His		•	Thin Dark Surface (S9)			(MLRA 14		•
	n Sulfide (A4)		Loamy Gleyed Matrix (		P		odplain Soils	(F19)
_ Stratified	Layers (A5)		Depleted Matrix (F3)			(MLRA 13	6, 147)	
	ck (A10) (LRR N)	•	Redox Dark Surface (F	·6)			Dark Surface	
	Below Dark Surface	e (A11)	Depleted Dark Surface		c	Other (Explai	in in Remarks	s)
	ark Surface (A12)		Redox Depressions (F					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Manganese Mass	es (F12) <b>(LRR N</b> ,				
	147, 148)		MLRA 136)	MI DA 420 420\	31	l:t		
	leyed Matrix (S4) edox (S5)		<ul><li>Umbric Surface (F13) (</li><li>Piedmont Floodplain S</li></ul>				ydrophytic ve logy must be	-
	Matrix (S6)	•	Red Parent Material (F				ed or problem	
	_ayer (if observed):		Ned i aleili Maleilai (i	21) (WILKA 121, 141	) un	iess distuible	ed of problem	iatic.
	mpacted Soil							
· · · ·	ches): 12+		=		Hydric Soil	Drocont?	Yes	No 🗸
	nes). <u>121</u>				Hydric Soil	Fresent?	162	
emarks:								

Project/Site: Kensington	City/County: Columbia	na	Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC			Sampling Point: W-24
	Section, Township, Range		
Landform (hillslope, terrace, etc.): Hillslope	Local relief (concave, convex		
Subregion (LRR or MLRA): LRRN			Datum: NAD 83
Soil Map Unit Name: Udorthents-Pits complex,			
Are climatic / hydrologic conditions on the site typic	cal for this time of year? Yes No	(If no, explain in R	temarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "No	rmal Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS – Attach sit			
Hydrophytic Vegetation Present? Yes	✓ No.		
	Is the Sampled Al		
Wetland Hydrology Present? Yes	No within a Wetland?	Yes	No
Remarks: Cowardin Code: PEM	HGM: Slope Water Ty	pe: NRPWW	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	Surface Soil	
Surface Water (A1)	True Aquatic Plants (B14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	<u>✓</u> Drainage Pa	
Saturation (A3)	✓ Oxidized Rhizospheres on Living Roots (€	C3) Moss Trim L	ines (B16)
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)		
Drift Deposits (B3)	Thin Muck Surface (C7)		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)		tressed Plants (D1)
Iron Deposits (B5)		<del></del>	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	
Water-Stained Leaves (B9)		✓ FAC-Neutral	aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral	Test (D5)
Field Observations: Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
		n d Herduala me Duana	-42 V V N-
(includes capillary fringe)	Depth (inches): Wetla	nd Hydrology Preser	nt? Yes <u> </u>
Describe Recorded Data (stream gauge, monitor	ing well, aerial photos, previous inspections), i	f available:	
Devente			
Remarks:			

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-24

Troo Stratum (Plot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species	•	
1				That Are OBL, FACW, or FAC:	2	(A)
2		-		Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				Specific / tologo / till Gilatia.		(-)
				Percent of Dominant Species	400	
5				That Are OBL, FACW, or FAC:	100	(A/B)
6				Prevalence Index worksheet:		
7					Multiply by	
		= Total Cov		Total % Cover of:		
50% of total cover:0	20% of	total cover	:0	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1				FAC species x	3 =	_
				FACU species x	4 =	
2				UPL species x		
3						
4		-	<del></del>	Column Totals: (A	)	_ (D)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indica		_
7						
8				1 - Rapid Test for Hydrophyt	-	
9		-		✓ 2 - Dominance Test is >50%	)	
9	_	Tatal Car		3 - Prevalence Index is ≤3.0	1	
500/ of total account 0		= Total Cov		4 - Morphological Adaptation	ns1 (Provide sup	porting
50% of total cover: 0	20% 01	total cover	:	data in Remarks or on a s	separate sheet)	
rieib Stratum (i lot size)	50	,	ODI	Problematic Hydrophytic Veg	netation <sup>1</sup> (Expla	n)
1. Leersia oryzoides	50		OBL		30ta.ioi: (=xp.a.	,
2. Carex lurida	20		OBL	1 a diagram of budgin and and and		4
3. Scirpus cyperinus	15		OBL	<sup>1</sup> Indicators of hydric soil and wetl be present, unless disturbed or p		nust
4. Cyperus esculentus	10		FACW	Definitions of Four Vegetation		
5. Eupatorium perfoliatum	10		FACW	Deminions of Four Vegetation	Otrata.	
6. Typha latifolia	10		OBL	Tree – Woody plants, excluding		
		-		more in diameter at breast height	t (DBH), regardl	ess of
7				height.		
8		-		Sapling/Shrub – Woody plants,	excluding vines	, less
9				than 3 in. DBH and greater than	or equal to 3.28	ft (1
10				m) tall.		
11				Herb - All herbaceous (non-woo	dy) plants, rega	rdless
	115 .	= Total Cov	/er	of size, and woody plants less the		
50% of total cover: <u>57.5</u>				NAC - deceder - All over deceder		0.1.
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines g height.	reater than 3.26	It in
1				g.m.		
2						
			· ——			
3						
4				Hydrophytic		
5	_			Vegetation Present? Yes	No	
0		= Total Cov	_	Tresent: Tes	140	
50% of total cover: 0		total cover	:0			
Remarks: (Include photo numbers here or on a separate shape)	neet.)					

inches)	Matrix Color (moist)	%	Redox Color (moist)	k Features % Ty	/pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-10	2.5Y 4/2	98	7.5YR 5/4	2 C		C		IXCIIIAINS	
	2.51 4/2		7.5111.5/4						
10+							Refus	al - Compa	cted Soil
		etion, RM=	Reduced Matrix, MS	S=Masked Sar	nd Grains.	<sup>2</sup> Location: Pl			
dric Soil Ir								blematic Hyd	
_ Histosol (			Dark Surface				•	10) <b>(MLRA 1</b> 4	17)
	pedon (A2)		·		S8) (MLRA 147,	148) C		Redox (A16)	
Black His					_RA 147, 148)	5	(MLRA 147		E40\
	n Sulfide (A4) Layers (A5)		Loamy Gleye  Depleted Mat	, ,		_ P	edmont Floo MLRA 136)	odplain Soils (	F19)
	ck (A10) <b>(LRR N)</b>		Redox Dark S			V		Dark Surface	(TF12)
	Below Dark Surface	(A11)		k Surface (F7)	)			in Remarks)	(11 12)
	rk Surface (A12)	(,,,,	Redox Depre		,		(=,,p.a		
	ucky Mineral (S1) <b>(L</b>	RR N,		ese Masses (F	12) <b>(LRR N,</b>				
-	147, 148)		MLRA 130		, ,				
_ Sandy GI	eyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(MLF</b>	RA 136, 122)	<sup>3</sup> Ind	cators of hyd	drophytic vege	etation and
_ Sandy Re			Piedmont Flo	odplain Soils	(F19) <b>(MLRA 14</b>	<b>8)</b> we	tland hydrolo	gy must be p	resent,
	Matrix (S6)		Red Parent M	faterial (F21)	(MLRA 127, 147	') unl	ess disturbe	d or problema	tic.
	ayer (if observed):								
· · ·	mpacted Soil								
Depth (incl	<sub>hes):</sub> <u>10+</u>					Hydric Soil	Present?	Yes	No
emarks:						1			

# **Wetland Photograph Page**

Wetland ID W-24 Cowardin Code PEM Date 08/21/19



Photograph Number 93
Photograph Direction WNW

Comments:



Photograph Number 94
Photograph Direction West

Comments:



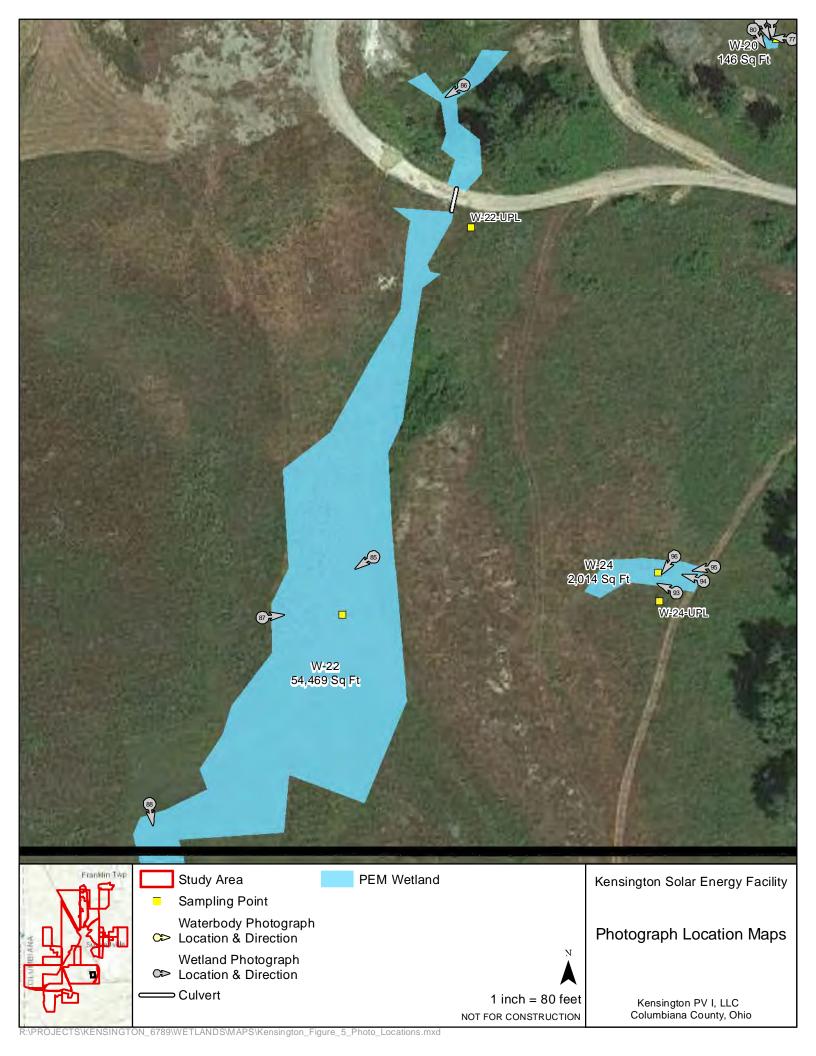
Photograph Number 95
Photograph Direction West

Comments:



Photograph Number 96
Photograph Direction SW

Comments:



Project/Site: Kensington	City/Co	<sub>unty:</sub> Columbiana		Sampling Date: 08/21/19
Applicant/Owner: Kensington PV I, LLC				Sampling Point: W-24 UPL
	Section			
				Slope (%): 2-3
Subregion (LRR or MLRA): LRRN L				Datum: NAD 83
Soil Map Unit Name: Udorthents-Pits complex, 0				
Are climatic / hydrologic conditions on the site typica	I for this time of year? Ye	s <u> </u>	lf no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbe	ed? Are "Normal	Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or Hydrology			xplain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site	• •			
	No <b>✓</b>	Is the Sampled Area		
	No <u> ▼</u>	within a Wetland?	Yes	No <u> </u>
Domeonico	No			
Cowardin Code: UPLAND		Water Type:		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; che	eck all that apply)		Surface Soil	
Surface Water (A1)	True Aquatic Plants (B	14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor	(C1)	Drainage Pa	tterns (B10)
Saturation (A3)	Oxidized Rhizospheres	on Living Roots (C3)	Moss Trim L	ines (B16)
Water Marks (B1)	Presence of Reduced I	ron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	_ Recent Iron Reduction	in Tilled Soils (C6)	Crayfish Bur	rows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rema	arks)		tressed Plants (D1)
Iron Deposits (B5)		-		Position (D2)
Inundation Visible on Aerial Imagery (B7)		-	Shallow Aqu	
Water-Stained Leaves (B9) Aquatic Fauna (B13)		-		aphic Relief (D4)
Field Observations:		-	FAC-Neutral	Test (Do)
	Depth (inches):			
	Depth (inches):			
	Depth (inches):		vdrology Preser	nt? Yes No_ ✓
(includes capillary fringe)	-			it: 165 NO
Describe Recorded Data (stream gauge, monitoring	g well, aerial photos, previ	ous inspections), if avail	lable:	
Remarks:				

#### VEGETATION (Four Strata) - Use scientific names of plants.

\_)

50% of total cover: \_\_\_0

50% of total cover: \_ 0

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size:

Herb Stratum (Plot size:

1. Solidago canadensis

2. Dactylis glomerata

4. Dipsacus fullonum

5. Trifolium pratense

3. Phleum pratense

Absolute Dominant Indicator

% Cover Species? Status

0 \_\_ = Total Cover

\_\_ 20% of total cover:\_\_ 0

0 = Total Cover

20% of total cover:

5\_\_\_\_

110 = Total Cover

0 = Total Cover

25

10

50% of total cover: <u>55</u> 20% of total cover: 22

50% of total cover: 0 20% of total cover:

FACU

**FACU** 

**FACU** 

**FACU** 

FACU

Vegetation

Present?

Sampling Point: W-24 UPL Dominance Test worksheet: **Number of Dominant Species** 0 \_\_\_ (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 3 \_ (B) Species Across All Strata: Percent of Dominant Species 0 (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic

Remarks: (Include	photo r	numbers	here o	or on	a se	parate	sheet.)
-------------------	---------	---------	--------	-------	------	--------	---------

Woody Vine Stratum (Plot size: 15')

Yes \_\_\_\_ No <u>√</u>

Depth	Matrix		Redox Features				
(inches)	Color (moist)		Color (moist) % Type	e <sup>1</sup> Loc <sup>2</sup> T	<u>exture</u>	Remarks	
0-12	10YR 4/4	100			CL		
		·					
		· <del></del>	<del></del>				
		. <del></del> _					
_		· <del></del>		<del>_</del>			
		· <del></del>					
		· <del></del>					
<u> </u>		. <del></del> . –	<del></del>				
		letion, RM=Re	educed Matrix, MS=Masked Sand	Grains. 'Lo		e Lining, M=Matrix.	-l-:- C-:I-3
Hydric Soil I						for Problematic Hy	
Histosol	• •	-	Dark Surface (S7)			uck (A10) (MLRA 14	17)
•	ipedon (A2)	-	Polyvalue Below Surface (S8			Prairie Redox (A16)	
Black His		-	Thin Dark Surface (S9) (MLR	A 147, 148)		RA 147, 148)	T10)
	n Sulfide (A4)	-	<ul><li>Loamy Gleyed Matrix (F2)</li><li>Depleted Matrix (F3)</li></ul>			ont Floodplain Soils (	F 19)
	Layers (A5) ck (A10) <b>(LRR N)</b>	-	Redox Dark Surface (F6)			RA 136, 147) nallow Dark Surface	(TE12)
	Below Dark Surface	- (Δ11)	Depleted Dark Surface (F7)			Explain in Remarks)	
•	rk Surface (A12)		Redox Depressions (F8)		0.1.0. (	Explain in Romano,	
	lucky Mineral (S1) <b>(L</b>	RR N.	Iron-Manganese Masses (F1)	2) <b>(LRR N.</b>			
	147, 148)	, -	MLRA 136)	-, <b>(</b> ,			
	leyed Matrix (S4)	_	Umbric Surface (F13) (MLRA	136, 122)	<sup>3</sup> Indicator	s of hydrophytic vege	etation and
	edox (S5)	_	Piedmont Floodplain Soils (F			hydrology must be p	
•	Matrix (S6)	_	Red Parent Material (F21) (M			isturbed or problema	
Restrictive L	ayer (if observed):						
Type:			_				
• •	ches):			H	ydric Soil Pres	ent? Yes	No ✓
Remarks:	,		_		•		
Cindino.							

Project/Site: Kensington		City/C	county: Columbiana		Sampling Date: 08/22/19
Applicant/Owner: Kensington PV I, L	.LC		,		Sampling Point: W-25-PEM1
Investigator(s): CV, JL, KP		Section	on, Township, Range: S		
Landform (hillslope, terrace, etc.): Flood					Slope (%): 3-5
Subregion (LRR or MLRA): LRRN					Datum: NAD 83
Soil Map Unit Name: Berks channery si					
Are climatic / hydrologic conditions on the					
Are Vegetation, Soil, or Hy				I Circumstances" p	present? Yes No
Are Vegetation, Soil, or Hy	ydrology	naturally problema	atic? (If needed,	explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Att	ach site n	nap showing sam	pling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸	No			
Hydric Soil Present?	Yes 🗸	No No	Is the Sampled Area	/	
Wetland Hydrology Present?	Yes 🗸	No	within a Wetland?	Yes	No
Remarks: Cowardin Code: PEN		HGM: Riverine	Water Type:		
Cowardin Code: PEN	/1	HGWI: Riverine	Water Type:	RPWWD	
HYDROLOGY					
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is re	auired: chec	k all that annly)		Surface Soil	
Surface Water (A1)	equirea, cried	True Aquatic Plants (	B14)	· · · · · · · · · · · · · · · · · · ·	getated Concave Surface (B8)
High Water Table (A2)		Hydrogen Sulfide Ode		✓ Drainage Pa	
Saturation (A3)	~		es on Living Roots (C3)	Moss Trim L	
Water Marks (B1)		Presence of Reduced	• , ,		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio	` '	✓ Crayfish Bur	, ,
Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)				✓ Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery	/ (B7)			Shallow Aqu	itard (D3)
Water-Stained Leaves (B9)					aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:	,				
Surface Water Present? Yes	No	Depth (inches):			
		_ Depth (inches):			
	No	Depth (inches):	Wetland I	Hydrology Preser	nt? Yes 🗸 No
(includes capillary fringe)  Describe Recorded Data (stream gauge	. monitoring	well, aerial photos, pre	vious inspections), if ava	ailable:	
	,	,	,,,		
Remarks:					

Sampling	Point: W-25-PEM1
Sambiina	POINT: W-ZO-I LIVII

30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' )		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Demisers
3				Total Number of Dominant Species Across All Strata:  5 (B)
4				、,
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6		-		Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
500/ -(/		= Total Co		OBL species x 1 =
50% of total cover: 0	20% of	total cover	: <u> </u>	FACW species x 2 =
Sapinig/Situb Sitatum (Flot size)				FAC species x 3 =
1				FACU species x 4 =
2				UPL species x 5 =
3			<del></del>	Column Totals: (A) (B)
4				Column Totals (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	: <u> </u>	data in Remarks or on a separate sheet)
TIEID Stratuiii (Flot Size)	20		OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Leersia oryzoides	20			
2. Impatiens capensis	20		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Onoclea sensibilis	15		FACW_	be present, unless disturbed or problematic.
4. Elymus riparius	<u>15</u>		FACW_	Definitions of Four Vegetation Strata:
5. Carex frankii	5	-	OBL	Tree Woody plants evaluating vines 2 in (7.6 cm) or
6. Lysimachia nummularia	5		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7. Rosa multiflora	5		FACU	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>42.5</u>	20% of	total cover	r: <u>17</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15' )	_	4		height.
1. Toxicodendron radicans	5		F <u>AC</u>	
2				
3				
4				Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes No
50% of total cover: 2.5	20% of	total cover	r: <u> </u>	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Depth	ription: (Describe to Matrix	to the dept		nent the indica x Features	tor or confirm	the absence o	rindicator	S.)	
(inches)	Color (moist)	%	Color (moist)	<u>% Typ</u>	pe <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-12	10YR 4/2	95	7.5YR 4/6	5 C	M/PL	CL			
12-16	2.5Y 4/1	95	7.5YR 4/6	5 C	M/PL	С			
		-							
	-	-				·			
	-								
	·								
Type: C=Co	oncentration, D=Depl	letion. RM=	Reduced Matrix, MS	S=Masked Sand	d Grains.	<sup>2</sup> Location: PL:	=Pore Linine	a. M=Matrix.	
Hydric Soil		1001011, 11111	rtoddod Matrix, We	z-Machoa Cari	oranio.			blematic Hyd	dric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				10) <b>(MLRA 1</b> 4	
Histic Ep	pipedon (A2)			low Surface (St	B) (MLRA 147,	<b>148)</b> Co	ast Prairie F	Redox (A16)	
Black Hi	, ,			rface (S9) (MLI	RA 147, 148)		(MLRA 147		
	n Sulfide (A4)		Loamy Gleye					dplain Soils (	F19)
	d Layers (A5) ick (A10) <b>(LRR N)</b>		Depleted Mat Redox Dark S				(MLRA 136	, <b>147)</b> Dark Surface	/TE12\
	d Below Dark Surface	e (A11)		k Surface (F7)			•	in Remarks)	(1712)
	ark Surface (A12)	(, , , ,	Redox Depre				.o. (=/ip/a//		
	lucky Mineral (S1) (L	.RR N,		ese Masses (F1	2) <b>(LRR N,</b>				
	A 147, 148)		MLRA 130	•		2			
	Gleyed Matrix (S4)			ce (F13) (MLR				drophytic vege	
	ledox (S5)			odplain Soils (F				gy must be p	
	Matrix (S6)  _ayer (if observed):		Red Parent N	Material (F21) (N	/ILRA 127, 147	) unie	ess disturbed	d or problema	ITIC.
Type:	Layer (ii observeu).								
	ches):					Hydric Soil F	Procent?	Yes 🗸	No
Remarks:	Jiles)		<u> </u>			Tiyane 30ii i	resent:	163	
veillains.									

# **Wetland Photograph Page**

Wetland ID W-25-PEM1 Cowardin Code PEM Date 08/22/19



Photograph Number 97
Photograph Direction SW

Comments:



Photograph Number <u>98</u>
Photograph Direction <u>SE</u>

Comments:



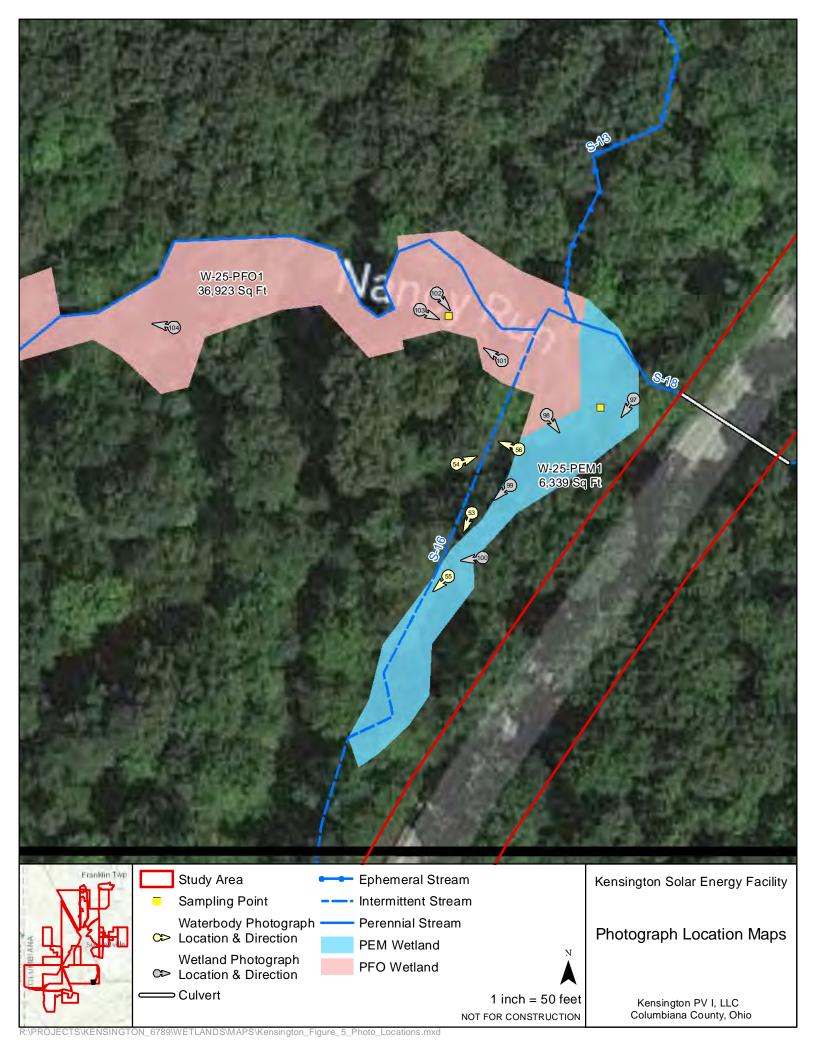
Photograph Number 99
Photograph Direction SW

Comments:



Photograph Number 100
Photograph Direction West

Comments:



Project/Site: Kensington		City/C	county: Columbiana		Sampling Date: 08/22/19
Applicant/Owner: Kensington PV I, LL		,	,		Sampling Point: W-25-PEM2
		Section	on, Township, Range: S		
Landform (hillslope, terrace, etc.): Flood					Slope (%): 0-2
Subregion (LRR or MLRA): LRRN		· 40 665356	Long: -80	.885268	Datum: NAD 83
Soil Map Unit Name: Berks channery silt		o 35 percent slopes	Long	NIM/L plannific	potion:
Are climatic / hydrologic conditions on the s					
		· ·			
Are Vegetation, Soil, or Hyd					
Are Vegetation, Soil, or Hyd				explain any answe	
SUMMARY OF FINDINGS – Atta	ch site n	nap showing sam	npling point location	ons, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Yes 🗸	No	la tha Oanania i Anaa		
	Yes 🗸	No	Is the Sampled Area within a Wetland?	Vas V	No
Wetland Hydrology Present?	Yes 🖊	No	within a wettand:	163	
Remarks: Cowardin Code: PEM		HGM: Riverine	Water Type:	RPWWD	
HYDROLOGY					
Wetland Hydrology Indicators:					ators (minimum of two required)
Primary Indicators (minimum of one is req	uired; chec			Surface Soil	, ,
Surface Water (A1)	_	True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2)	_	Hydrogen Sulfide Od	or (C1) es on Living Roots (C3)	✓ Drainage Pa	
Saturation (A3) Water Marks (B1)		Presence of Reduced	• , ,	Moss Trim L	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		✓ Crayfish Bur	, ,
✓ Drift Deposits (B3)		Thin Muck Surface (C			isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Ren			Stressed Plants (D1)
Iron Deposits (B5)		• (=/p.a to.	ao,		Position (D2)
Inundation Visible on Aerial Imagery (	(B7)			Shallow Aqu	` '
Water-Stained Leaves (B9)	,			<b>✓</b> Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)
Field Observations:					
		_ Depth (inches):			
		Depth (inches):	3		
	_ No	_ Depth (inches):	0 Wetland I	Hydrology Presei	nt? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (stream gauge, i	monitoring	well, aerial photos, pre	vious inspections), if ava	ailable:	
, , ,					
Remarks:					
1					

Sampling	Point: W-25-PEM2
----------	------------------

30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30') 1		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Descinant
3				Total Number of Dominant Species Across All Strata:  1 (B)
4				Description of Description of Control
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov	_	OBL species x 1 =
50% of total cover: 0 Sapling/Shrub Stratum (Plot size: 15')	20% of	total cover:		
Japhing/Siliub Stratum (Flot Size)				FAC species x 2 =
1				FACUlargeign x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5		-		Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9		-		3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Leersia oryzoides	70		OBL	Problematic Hydrophytic Vegetation (Explain)
2. Phalaris arundinacea	15		FACW	The directions of boundings of the other transfer of boundings of the other transfer of
3. Carex vulpinoidea	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Impatiens capensis	10	-	FACW	Definitions of Four Vegetation Strata:
5				John Money Co. 1 Can Togotation Chiata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11.				Harb All back as a second or a
	105	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover:52.5	5 20% of	total cover:	21	
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines greater than 3.28 ft in height.
1				neight.
2.				
3		-		
4.				
-				Hydrophytic
5	0	Total Cov		Vegetation Present? Yes   ✓ No
50% of total cover: 0		<ul> <li>Total Coversitotal covers</li> </ul>	_	
Remarks: (Include photo numbers here or on a separate s		total cover.		
Tremarks. (include proto numbers here of on a separate s	ilieet.)			

Sampling Point: W-25-PEM2

SOIL

Depth	cription: (Describe of Matrix	io ine depi		x Features		tile absence	Ji maicatoi	3.,	
(inches)	Color (moist)	%	Color (moist)	<u>%</u> Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture		Remarks	
0-4	10YR 3/2	98	7.5YR 4/4		M/PL	L	Hig	gh organic c	content
4-16	10YR 4/2	90	7.5YR 5/4	<u>10</u> C	M/PL	SaC			
	oncentration, D=Dep	letion, RM=	Reduced Matrix, MS	S=Masked Sand	I Grains.	<sup>2</sup> Location: PL			
•	Indicators:							oblematic Hyd	
Histosol	• •		Dark Surface					(10) <b>(MLRA 1</b> 4	17)
	oipedon (A2)			elow Surface (S8		<b>148)</b> Co		Redox (A16)	
Black Hi	en Sulfide (A4)			ırface (S9) <b>(MLF</b> ed Matrix (F2)	RA 147, 148)	Di	(MLRA 147	<b>r, 148)</b> odplain Soils (l	E10)
	d Layers (A5)		Depleted Ma			<u> </u>	(MLRA 136		F19)
	uck (A10) <b>(LRR N)</b>		Redox Dark			Ve		Dark Surface	(TF12)
	d Below Dark Surface	e (A11)		rk Surface (F7)			•	n in Remarks)	(,
	ark Surface (A12)	,	Redox Depre					,	
	Mucky Mineral (S1) (L	.RR N,		ese Masses (F1	2) (LRR N,				
	A 147, 148)		MLRA 13						
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ice (F13) <b>(MLR</b>	A 136, 122)	<sup>3</sup> Indi	cators of hy	drophytic vege	etation and
Sandy R	Redox (S5)		Piedmont Flo	oodplain Soils (F	19) <b>(MLRA 14</b>	<b>8)</b> wet	land hydrolo	ogy must be p	resent,
	Matrix (S6)		Red Parent N	Material (F21) <b>(N</b>	ILRA 127, 147	') unle	ess disturbe	ed or problema	itic.
Restrictive I	Layer (if observed):								
Type: Depth (inc	ches):					Hydric Soil	Present?	Yes 🗸	No
Remarks:						11,4			
terriarks.									

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in

Case No(s). 21-0764-EL-BGN

Summary: Application Application Exhibit P (Wetlands Report, Appx. C-2) electronically filed by Mr. Michael J. Settineri on behalf of Kensington PV 1, LLC