















Appendix B
Data Sheets (see enclosed electronic copy)

Project/Site: Bluewater T	erminal SPM Project	City/Cour	nty: San Patricio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips	66 Pipeline, LLC		State: TX	Sampling Point:	UPP1001
Investigator(s): B. Bring	nurst & A. Ostrowski		Section, Township, Ran	ge: S N/A T N/A	R N/A
Landform (hillslope, terrac	e, etc.): Flat	Local relic	ef (concave, convex, none):		Slope: 0 % 0.0 °
Subregion (LRR): LRR T			.910244 <b>Long:</b>	-97.407705	Datum: NAD 83
	oria clay 0 to 1 percent slopes (\			cation: None	
_		·			
Are climatic/hydrologic co	nditions on the site typical f	or this time of year?	Yes   No (If no,	explain in Remarks.)	
Are Vegetation $\checkmark$ ,	Soil 🗸 , or Hydrology	significantly dis	turbed? Are "Normal Ci	rcumstances" present?	Yes • No 🔾
Are Vegetation,	Soil , or Hydrology	naturally proble	ematic? (If needed, exp	lain any answers in Re	marks.)
SUMMARY OF FINDING	SS — Attach site map sho	wing sampling point lo	ocations, transects, impor	tant features, etc.	
Hydrophytic Vegetation Pre	sent? Yes	No •			
Hydric Soil Present?	Yes 🔘	No •	Is the Sampled Area within a Wetland?	Yes	No 💿
Wetland Hydrology Present	Yes 🔾	No •			
Hydrophytic vegetation, hyd  HYDROLOGY	lric soil, and wetland hydrology	are not present. This is not a	wetland.		
Wetland Hydrology Indi	cators:				
	mum of one reauired: chec	k all that apply)	Secondar	v Indicators (Minimum	of 2 required)
Surface Water (A1)		Aquatic Fauna (B13)		parsely Vegetated Concave	. ,
High Water Table (A2)		Marl Deposits (B15) (LRR U)		rainage Patterns (B10)	s Surface (DO)
Saturation (A3)		Hydrogen Sulfide Odor (C1)		oss Trim Lines (B16)	
Water Marks (B1)		Oxidized Rhizospheres along		ry Season Water Table (C2	2)
Sediment Deposits (B2	)	Presence of Reduced Iron (C		rayfish Burrows (C8)	•
Drift Deposits (B3)		Recent Iron Reduction in Till		aturation Visible on Aerial	Imagery (C9)
Algal Mat or Crust (B4)		Thin Muck Surface (C7)		eomorphic Position (D2)	2 , . ,
Iron Deposits (B5)		Other (Explain in Remarks)	S	nallow Aquitard (D3)	
Inundation Visible on A	erial Imagery (B7)		☐ F	AC-Neutral Test (D5)	
Water-Stained Leaves (	B9)		S	ohagnum moss (D8) (LRR	T, U)
Field Observations:					
Surface Water Present?	Yes O No •	Depth (inches):			
Water Table Present?	Yes O No •	Depth (inches):	_		
Saturation Present?	Yes No	Depth (inches): 0	Wetland F	lydrology Present? Ye	es O No 💿
(includes capillary fringe)	les O NO O	Depart (menes).	_		
Describe Recorded Data (s Remarks:	tream gauge, monitor well, aeri	al photos, previous inspection	ıs), if available:		

		Daminant.	1
	Absolute % Cover	Dominant Species? Rel.Strat. Indicator Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:  (A)
ee Stratum (Plot Size : 30)		Cover Status	That are obb, FACW, 10 FAC. (A)
·	0	0.0%_	Total Number of Dominant
-	Г	0.0%	Species Across All Strata:1 (B
		0.0%	Percent of Dominant Species
			That are OBL, FACW, or FAC: 0.0% (A/E
		0.0%	
			Prevalence Index worksheet:
	Г	0.0%_	Total % Cover of: Multiply by:
		0.0%_	OBL species $0 \times 1 = 0$
	0	0.0%_	FACW species $0 \times 2 = 0$
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	FAC species $0 \times 3 = 0$
ling or Sapling/Shrub Stratum (Plot Size : 30 )			FACU species $2 \times 4 = 8$
	0	0.0%	UPL species $0 \times 5 = 0$
		0.0%	Colum Totals: 2 (A) 8 (B)
		0.0%	
		0.0%	Prevalence Index = B/A= 4.000
		0.0%	Hydrophytic Vegetation Indicators:
		0.0%	
			1 - Rapid Test for Hydrophytic Vegetation
		0.0%	2 - Dominance Test is > 50%
-		0.0%	3 - Prevalence Index is ≤ 3.0 <sup>1</sup>
50% of Total Cover: 0 20% of Total Cover: 0	0	= Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
ub Stratum (Plot Size : 30 )			
•	0	0.0%	<sup>1</sup> Indicators of hydric soil and wetland
	F	0.0%_	hydrology must be present, unless disturbed or
		0.0%	
		0.0%	Definition of Vegetation Strata:
		0.0%	Tree - Woody plants, excluding woody vines,
	0	0.0%	approximately 20 ft (6 m) or more in height and 3 in.
50% of Total Cover: 0 20% of Total Cover: 0		= Total Cover	(7.6 cm) or larger in diameter at breast height (DBH).
		- rotal cover	
<u>'b Stratum</u> (Plot Size : <u>30</u> )	2	400.00/ 54.011	Sapling - Woody plants, excluding woody vines,
Cvnodon dactvlon			approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
	Г	0.0%_	than 3 iii. (7.6 cm) DBH.
		0.0%_	Sanling/Shrub Waady plants avaluding vines loss
	0	0.0%_	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.
	0	0.0%_	than 6 m. BBT and groater than 6.25 it (mi) tail.
	0	0.0%	Shrub - Woody plants, excluding woody vines,
	0	0.0%	approximately 3 to 20 ft (1 to 6 m) in height.
	0	0.0%	
		0.0%	Herb - All herbaceous (non-woody) plants, including
		0.0%	herbaceous vines, regardless of size, and woody
	Г	0.0%	plants, except woody vines, less than approximately
		0.0%	3 ft (1 m) in height.
50% of Total Cover: 1 20% of Total Cover: 0.4	2	= Total Cover	
		= Total Cover	Woody vine - All woody vines, regardless of height.
	Λ.	0.0%_	
ody Vine Stratum (Plot Size : 30)	0		1
ody Vine Stratum (Plot Size : 30 )		0.0%	
ody Vine Stratum (Plot Size : 30 )	0	0.0%	Hydrophytic
ody Vine Stratum (Plot Size : 30 )	0	0.0%	Vegetation Yes No •
cody Vine Stratum (Plot Size : 30 )	0	0.0%	
cody Vine Stratum (Plot Size : 30 )	0	0.0%	Vegetation Yes No •

Depth	Matr	ix		Redox	Features			
(inches)	Color (mois	t) %	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	1 100					Silty Clay	
oe: C=Concentrat	tion, D=Depletion, F	RM=Reduced	Matrix, CS=Covered	or Coated	d Sand Grains.	<sup>2</sup> Location: PL=Pore	Lining, M=Matrix.	
ric Soil Indica	ators:						Indicators for Problemat	tic Hydric Soils³:
Histosol (A1)			Polyval	ue Belov	v Surface (S8) (	(LRR S, T, U)	1 cm Muck (A9) (LRR (	O)
Histic Epipedon					ice (S9) (LRR S		2 cm Muck (A10) (LRR	( S)
Black Histic (A3	•				lineral (F1) (LR	RR O)		(outside MLRA 150A,B)
Hydrogen Sulfic Stratified Layer:					Matrix (F2)			oils (F19) (LRR P, S, T)
•	s (A6) (LRR P, T, U	1)		ed Matrix	• •			my Soils (F20) (MLRA 153B)
-	ineral (A7) (LRR P,				face (F6)		Red Parent Material (T	·
Muck Presence		, 1, 0)			Surface (F7)		Very Shallow Dark Sur	
1 cm Muck (A9)				•	ons (F8)		Other (Explain in Rema	arks)
	v Dark Surface (A1	11)		10) (LRF		151)		
Thick Dark Surf		/			(F11) (MLRA	•		
	edox (A16) (MLRA	150A)			e Masses (F12)			
	ineral (S1) (LRR O	,			(F13) (LRR P,			of hydrophytic vegetation and
Sandy Gleyed N		, 5,			17) (MLRA 151)		wetland h	ydrology must be present, disturbed or problematic.
Sandy Redox (S					(F18) (MLRA 1		uniess c	ilsturbed of problematic.
Stripped Matrix						9) (MLRA 149A) (530) (MLBA 140A	1520 1520)	
	S7) (LRR P, S, T, l	J)	Anoma	ious Brig	int Loamy Soils	(F20) (MLRA 149A	i, 153C, 153D)	
(-								
trictive Layer	r (If observed):							
Туре:						'	Hydric Soil Present? Yes	S ○ No ●
Depth (inches):								
narks:						L		

Project/Site: Bluewater Ter	rminal SPM Project	City/County: San Patri	cio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips 6	66 Pipeline, LLC	State	: TX San	npling Point:	UPP1002
Investigator(s): B. Bringhu	urst & A. Ostrowski	Sectio	n, Township, Range:	S N/A T N/A	R N/A
Landform (hillslope, terrace	, etc.): Flat	Local relief (concave,	convex, none): Flat		<b>Slope:</b> 1 % 0.6 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.910093	Long: -97.	.399802	Datum: NAD 83
Soil Map Unit Name: Victori	ia clay 0 to 1 percent slopes (VcA)		NWI Classification	on: None	
Are climatic/hydrologic con	ditions on the site typical for this time (	of year? Yes 🌘	── No               (If no, exp	lain in Remarks.)	
-		nificantly disturbed?	Are "Normal Circun	-	Yes ● No ○
		turally problematic?		any answers in Ren	
Are vegetation, 3	ion , or rivurology na	turally problematic:	(11 needed, explain	any answers in Ken	nai ks. j
SUMMARY OF FINDINGS	S — Attach site map showing samp	ling point locations, tr	ansects, important	: features, etc.	
Hydrophytic Vegetation Prese	ent? Yes O No •	ls the	Sampled Area		
Hydric Soil Present?	Yes O No 💿		a Wetland?	Yes C	No 💿
Wetland Hydrology Present?	Yes   No				
Remarks:					
Hydrophytic vegetation and h	nydric soil are not present. This is not a wetla	and.			
HYDROLOGY					
Wetland Hydrology Indica	ators: num of one required: check all that app	div)	Socondary In	dicators (Minimum	of 2 required)
, , , , , , , , , , , , , , , , , , , ,		••		•	. ,
Surface Water (A1) High Water Table (A2)	Aquatic Fauna	a (B13) s (B15) (LRR U)		ely Vegetated Concave	Surface (B8)
✓ Saturation (A3)		fide Odor (C1)		nge Patterns (B10) Trim Lines (B16)	
Water Marks (B1)		cospheres along Living Roots		eason Water Table (C2	)
Sediment Deposits (B2)		Reduced Iron (C4)		sh Burrows (C8)	)
Drift Deposits (B3)		Reduction in Tilled Soils (C6)		ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin Muck Su	• •		orphic Position (D2)	magery (cs)
Iron Deposits (B5)		n in Remarks)		w Aquitard (D3)	
Inundation Visible on Ae		ir iir Remarks)		eutral Test (D5)	
Water-Stained Leaves (B	9)			num moss (D8) (LRR 1	Γ, U)
Field Observations:	<u>-</u>				
Surface Water Present?	Yes No Depth (in	ches):			
Water Table Present?	Yes No Depth (in	, ————————————————————————————————————			
Saturation Present?	• •		Wetland Hydro	ology Present? Ye	s • No O
(includes capillary fringe)	Yes   No   Depth (in	ches):	_		
Describe Recorded Data (stre	eam gauge, monitor well, aerial photos, prev	vious inspections), if available	:		
					_
Remarks:					
	<u></u>				

ZIAIZON (IIVe, I oc	ır Strata) - Use scientif	ic mannes or	piantoi	
		Absolute % Cover	Dominant Species? Rel.Strat. Cover Status	Dominance Test worksheet:  Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)
ee Stratum	(Plot Size : <u>30</u> )			(A)
l		0	0.0%_	Total Number of Dominant Species Across All Strata:1 (B
		0	0.0%	Species Across All Strata.
		0	0.0%_	Percent of Dominant Species
		0	0.0%_	That are OBL, FACW, or FAC: 0.0% (A/E
		0	0.0%_	Prevalence Index worksheet:
		0	0.0%_	Total % Cover of: Multiply by:
		0	0.0%_	OBL species $0 \times 1 = 0$
		0	0.0%	FACW species $0 \times 2 = 0$
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	FAC species $0 \times 3 = 0$
ling or Sapling/Shrub	Stratum (Plot Size : <u>30</u> )			FACU species $2 \times 4 = 8$
	( *** = ,	0_	0.0%	UPL species $0 \times 5 = 0$
		1	0.0%	Colum Totals: 2 (A) 8 (B)
			0.0%	
			0.0%	Prevalence Index = B/A= 4.000
		1	0.0%	Hydrophytic Vegetation Indicators:
			0.0%	1 - Rapid Test for Hydrophytic Vegetation
			0.0%	2 - Dominance Test is > 50%
			0.0%	3 - Prevalence Index is ≤ 3.0¹
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	Problematic Hydrophytic Vegetation¹ (Explain)
	(DL + C; - DD )			Froblematic Hydrophytic vegetation (Explain)
<u>ıb Stratum</u>	(Plot Size : <u>30</u> )	0_	0.00/	
		[	0.0%	¹ Indicators of hydric soil and wetland
			0.0%	hydrology must be present, unless disturbed or
			0.0%	Deficition of West Addison Charles
			0.0%	Definition of Vegetation Strata:
		0	0.0%	Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.
• 50% of Total Cover: 0	20% of Total Cover: 0	0		(7.6 cm) or larger in diameter at breast height (DBH).
	20% of Total Cover.		= Total Cover	
<u>b Stratum</u>	(Plot Size : <u>30</u> )	_ [		Sapling - Woody plants, excluding woody vines,
				approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.
		1		than 3 in. (7.0 cm) DBH.
		1	0.0%_	Sapling/Shrub - Woody plants, excluding vines, less
		r		than 3 in. DBH and greater than 3.28 ft (1m) tall.
		,	0.0%_	
			0.0%_	Shrub - Woody plants, excluding woody vines,
		ſ	0.0%_	approximately 3 to 20 ft (1 to 6 m) in height.
			0.0%_	
		r	0.0%_	Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody
		1	0.0%_	plants, except woody vines, less than approximately
			0.0%_	3 ft (1 m) in height.
			0.0%_	
50% of Total Cover: 1	20% of Total Cover: 0.4	2	= Total Cover	Woody vine - All woody vines, regardless of height.
ody Vine Stratum	(Plot Size : <u>30</u> )	0	0.0%_	
			0.0%	
		1	0.0%	Hydrophytic
			0.0%	Vegetation Yes No •
		0	0.0%	Present ?
		0	= Total Cover	
50% of Total Cover: 0	20% of Total Cover: 0			

Continue   Color   Time   Color   Time   Color   Col
per C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  dric Soil Indicators:  Histosol (A1)
Histosol (A1)
Aric Soil Indicators:    Polyvalue Below Surface (S8) (LRR S, T, U)
Histosol (A1) Polyvalue Below Surface (S8) (LRR S, T, U) 1 cm Muck (A9) (LRR O) Histic Epipedon (A2) Thin Dark Surface (S9) (LRR S, T, U) 2 cm Muck (A10) (LRR S) Black Histic (A3) Loamy Mucky Mineral (F1) (LRR O) Reduced Vertic (F18) (outside MLRA 150A,B) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19) (LRR P, S, T)  Organic Bodies (A6) (LRR P, T, U) Redox Dark Surface (F6) Red Parent Material (TF2)  Som Mucky Mineral (A7) (LRR P, T, U) Redox Dark Surface (F7) Very Shallow Dark Surface (TF12)  Muck Presence (A8) (LRR U) Redox Depressions (F8) Other (Explain in Remarks)  1 cm Muck (A9) (LRR P, T) Marl (F10) (LRR U) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR O, P, T) Delta Ochric (F17) (MLRA 151) Sandy Muck Mineral (S1) (LRR O, S) Sandy Muck Mineral (S1) (LRR O, S) Sandy Meck Mineral (S1) (LRR O, S) Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 149A) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T, U)  Trictive Layer (If observed):  Type: Hydric Soil Present? Yes No
Histosol (A1)
Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, U)  5 cm Mucky Mineral (A7) (LRR P, T, U)  Depleted Matrix (F3)  Loamy Mucky Mineral (A7) (LRR P, T, U)  Depleted Dark Surface (F6)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Muck Presence (A8) (LRR P, T)  Depleted Below Dark Surface (A12)  Coast Prairie Redox (A16) (MLRA 150A)  Sandy Muck Mineral (S1) (LRR O, S)  Sandy Muck Mineral (S1) (LRR O, S)  Sandy Redox (S5)  Stripped Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR P, S, T, U)  Thin Dark Surface (S9) (LRR S, T, U)  2 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 150A, 153D)  Reduced Vertic (F18) (outside MLRA 150A, 153D)  Reduced Vertic (F18) (LRR O, S)  Reduced Vertic (F18) (MLRA 151)  Tron-Manglous Bright Loamy Soils (F20) (MLRA 154D, 153C, 153D)  3 Indicators of hydrophytic vegetatic wetland hydrology must be presunless disturbed or problematic sturbed or problematic sturbed or problematic sturbed or problematic sturbed or problematic (F18) (MLRA 154D, 153C, 153D)  **Trictive Layer (If observed):**  Thin Dark Surface (S9) (LRR O, S)  Thin Dark Surface (S9) (LRR O, S)  Reduced Vertic (F18) (MLRA 151)  Tron-Manglous Bright Loamy Soils (F20) (MLRA 149A, 153C, 153D)
Type: Hydric Soil Present? Yes No
emarks:

Project/Site: Bluewater Terr	minal SPM Project	City/County: San Patr	icio	Sampling Date:	2/4/2019
Applicant/Owner: Phillips 6	66 Pipeline, LLC	State	e: TX Sar	npling Point:	UPP1003
Investigator(s): B. Bringhu	rst & A. Ostrowski	Section	on, Township, Range:	S N/A T N/A	R N/A
 Landform (hillslope, terrace,	, etc.): Flat	Local relief (concave	, convex, none): Flat		<b>Slope:</b> 0 % 0.0 °
Subregion (LRR): LRR T		<b>Lat:</b> 27.910334	Long: -97	.393075	Datum: NAD 83
. ,	a clay 0 to 1 percent slopes (VcA)		NWI Classificati		
	, , , , ,		_		
Are climatic/hydrologic cond	ditions on the site typical for thi	is time of year? Yes 💿	No (If no, exp	olain in Remarks.)	
Are Vegetation ✓ , S	oil 🗸 , or Hydrology	significantly disturbed?	Are "Normal Circur	mstances" present?	Yes   No
Are Vegetation , S	oil , or Hydrology	naturally problematic?	(If needed, explain	any answers in Rer	narks.)
SUMMARY OF FINDINGS	5 — Attach site map showing	sampling point locations, to	ransects, important	t features, etc.	
Hydrophytic Vegetation Presei				·	
Hydric Soil Present?	Yes O No	ls the	Sampled Area	Yes C	No •
Wetland Hydrology Present?	Yes • No	- Within	n a Wetland?		
	103 🕒 110				
Remarks: Hydrophytic vegetation and hy	ydric soil are not present. This is no	t a wetland.			
Trydrophlydd Vegetadoll and Tr	yane son are not presenta 11115 is no	e a Weganai			
UVDDOLOGV					
HYDROLOGY					
Wetland Hydrology Indica					
Primary Indicators (Minim	um of one required; check all t	hat apply)	Secondary In	dicators (Minimum	of 2 required)
Surface Water (A1)	Aqua	tic Fauna (B13)	Spars	ely Vegetated Concave	Surface (B8)
✓ High Water Table (A2)	Marl	Deposits (B15) (LRR U)	Draina	age Patterns (B10)	
Saturation (A3)	Hydr	ogen Sulfide Odor (C1)	Moss	Trim Lines (B16)	
Water Marks (B1)	Oxidi	zed Rhizospheres along Living Roots	(C3) Dry Se	eason Water Table (C2	)
Sediment Deposits (B2)	Prese	ence of Reduced Iron (C4)	Crayfi	sh Burrows (C8)	
Drift Deposits (B3)	Rece	nt Iron Reduction in Tilled Soils (C6)	Satura	ation Visible on Aerial I	magery (C9)
Algal Mat or Crust (B4)	Thin	Muck Surface (C7)	Geom	orphic Position (D2)	
Iron Deposits (B5)	Othe	r (Explain in Remarks)	Shallo	w Aquitard (D3)	
Inundation Visible on Aer	ial Imagery (B7)		FAC-N	leutral Test (D5)	
Water-Stained Leaves (B9	∍)		Sphag	num moss (D8) (LRR 1	Γ, U)
Field Observations:					
Surface Water Present?	Yes O No •	Pepth (inches):			
Water Table Present?		Depth (inches): 4			
Saturation Present?			Wetland Hydr	ology Present? Ye	s • No O
(includes capillary fringe)	Yes No • C	Depth (inches):		0.000, 1.000	<i>.</i>
Describe Recorded Data (stre	eam gauge, monitor well, aerial pho	tos, previous inspections), if available	e:		
	am gaage, menter well, denal phe	cos, previous inspections,, ii uvaliusi.	<b>.</b> .		
Remarks:					
Remarks.					

ETATION (Five/Four Strata) - Use scientific names of plants.				Sampling Point: UPP1003		
			Dominant Species?	Dominance Test worksheet:		
		Absolute % Cover	Rel.Strat. Indicator Cover Status	Number of Dominant Species That are OBL, FACW, ro FAC:  0 (A)		
ee Stratum	(Plot Size : <u>30</u> )			· ·		
		0	0.0%_	Total Number of Dominant Species Across All Strata:1 (B		
		0_	0.0%	Species Across Air Strata.		
		0_	0.0%_	Percent of Dominant Species		
		0_	0.0%_	That are OBL, FACW, or FAC:		
		0	0.0%_	Prevalence Index worksheet:		
		0_	0.0%	Total % Cover of: Multiply by:		
		Г	0.0%_	OBL species $0 \times 1 = 0$		
		0_[	0.0%_	FACW species $0 \times 2 = 0$		
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	FAC species $0 \times 3 = 0$		
ling or Sapling/Shrub	Stratum (Plot Size : 30 )			FACU species $2 \times 4 = 8$		
		0_[	0.0%	UPL species $0 \times 5 = 0$		
			0.0%	Colum Totals: 2 (A) 8 (B)		
			0.0%	Duayalanaa Inday D/A		
			0.0%	Prevalence Index = B/A= 4.000		
		T T	0.0%	Hydrophytic Vegetation Indicators:		
			0.0%	1 - Rapid Test for Hydrophytic Vegetation		
			0.0%	2 - Dominance Test is > 50%		
			0.0%	3 - Prevalence Index is ≤ 3.0¹		
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover			
_	_		- Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
ub Stratum	(Plot Size : <u>30</u> )	0_[	0.0%_			
		Г	0.0%	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or		
			0.0%	nyarology must be present, unless disturbed of		
			0.0%	Definition of Vegetation Strate:		
			0.0%	Definition of Vegetation Strata:		
		0		Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in.		
50% of Total Cover: 0				(7.6 cm) or larger in diameter at breast height (DBH).		
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	(**** -***, ****************************		
<u>b Stratum</u>	(Plot Size : <u>30</u> )	_ [		Sapling - Woody plants, excluding woody vines,		
				approximately 20 ft (6 m) or more in height and less		
			0.0%_	than 3 in. (7.6 cm) DBH.		
			0.0%_	Carling/Charle Mandy plants evaluating vines loss		
			0.0%_	Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.		
		0	0.0%_	and to the BBT and grouter than 6125 it (1111) tain		
		0	0.0%_	Shrub - Woody plants, excluding woody vines,		
		0	0.0%_	approximately 3 to 20 ft (1 to 6 m) in height.		
		0_	0.0%_			
		0_[	0.0%	Herb - All herbaceous (non-woody) plants, including		
		0_[	0.0%	herbaceous vines, regardless of size, and woody		
			0.0%	plants, except woody vines, less than approximately 3 ft (1 m) in height.		
		0_	0.0%	on (1 m) in noighi		
50% of Total Cover: 1	20% of Total Cover: 0.4	2	= Total Cover	Woody vine - All woody vines, regardless of height.		
ody Vine Stratum	(Plot Size : <u>30</u> )			vvocay vino 7 ili woody vinos, rogardiose of noight.		
-	(Flot 5/26 F 20 )	0_[	0.0%			
		r	0.0%			
		· ·	0.0%	Hydrophytic Vegetation Yes No   No		
			0.0%	Present ?		
		0				
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover	1		

Profile Descriptio	on: (Describe to the	ne depth	needed to docu	ment the	e indicator or	confirm the abs	ence of indicators.)	
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
Tugo C-Concentrati	on D-Donlotion BM/	-Doduced	Matrix CS-Covered	or Costado	Sand Grains	Alegation DI-Page	Lining M-Matrix	
¹Type: C=Concentration	•	=Keaucea	iviatrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore		atic Hydric Soile3:
Hydric Soil Indica	tors:						Indicators for Problema	auc nyaric Soilss:
Histosol (A1)	(42)				Surface (S8) (		1 cm Muck (A9) (LRR	O)
Histic Epipedon (	` ,				ce (S9) (LRR S		2 cm Muck (A10) (LR	R S)
Black Histic (A3)					ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
Hydrogen Sulfide	` '				latrix (F2)		Piedmont Floodplain	Soils (F19) (LRR P, S, T)
Stratified Layers	, ,			ed Matrix	. ,		Anomalous Bright Loa	amy Soils (F20) (MLRA 153B)
	(A6) (LRR P, T, U)			Dark Surf	` ,		Red Parent Material (	TF2)
	eral (A7) (LRR P, T,	. U)			urface (F7)		Very Shallow Dark Su	rface (TF12)
Muck Presence (				Depressio			Other (Explain in Ren	narks)
1 cm Muck (A9)				10) (LRR				
	Dark Surface (A11)		Deplete	ed Ochric	(F11) (MLRA	151)		
Thick Dark Surfa	• •		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)		
_	dox (A16) (MLRA 15		Umbric	Surface (	(F13) (LRR P,	T, U)	3Indicators	of hydrophytic vogotation and
	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		of hydrophytic vegetation and hydrology must be present,
Sandy Gleyed Ma	atrix (S4)		Reduce	ed Vertic (	(F18) (MLRA 1	50A, 150B)		disturbed or problematic.
Sandy Redox (S	5)		Piedmo	nt Floodp	olain Soils (F19	) (MLRA 149A)		
Stripped Matrix (	(S6)		Anoma	lous Brigh	nt Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	7) (LRR P, S, T, U)							
Restrictive Layer (	(If observed):							
Type:	(z. observeu).						lydric Soil Present? Ye	ne No 🝙
Depth (inches):						'	iyane son Fresent: Te	ns () No (●)
pepur (menes).								
Remarks:								

Project/Site: Bluewater Terminal SPM Project	City/County: San Patricio Sampling Date: 2/4/2019
Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1004
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat	Local relief (concave, convex, none): Flat Slope: 0 % 0.0 °
Subregion (LRR): LRR T	Lat: 27.910146 Long: -97.383997 Datum: NAD 83
Soil Map Unit Name: Victoria clay 0 to 1 percent slopes (VcA)	NWI Classification: None
Are climatic/hydrologic conditions on the site typical for this time	e of year? Yes  No (If no, explain in Remarks.)
	naturally problematic? (If needed, explain any answers in Remarks.)
Are vegetation, soil, of fryurology ii	laturally problematic: (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No •	within a Wetland?
Wetland Hydrology Present? Yes   No	
Remarks:	
Hydrophytic vegetation and hydric soil are not present. This is not a wet	tland.
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (Minimum of one required: check all that ap	poly) Secondary Indicators (Minimum of 2 required)
Surface Water (A1) Aquatic Fau  ✓ High Water Table (A2) Marl Deposi	
	its (B15) (LRR U)  Drainage Patterns (B10)  Sulfide Odor (C1)  Moss Trim Lines (B16)
	nizospheres along Living Roots (C3)  Dry Season Water Table (C2)
	f Reduced Iron (C4)  Crayfish Burrows (C8)
	n Reduction in Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)
	Surface (C7) Geomorphic Position (D2)
	lain in Remarks) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
• •	Spragram mess (50) (ERC 1, 5)
Field Observations:  Surface Water Present? Yes No   Depth (i	(inches):
Water Table Present? Yes ● No ○ Depth (i	· · · · · · · · · · · · · · · · · · ·
Saturation Procent?	Wotland Hydrology Procent? Voc. No.
(includes capillary fringe)  Yes  No  Depth (i	(inches):
Describe Recorded Data (stream gauge, monitor well, aerial photos, pre	evious inspections), if available:
Remarks:	

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0

(Plot Size : 30 )

20% of Total Cover: 0.4

20% of Total Cover: 0

(Plot Size : 30 )

**Tree Stratum** 

50% of Total Cover: 0

Shrub Stratum

50% of Total Cover: 0

1 . Cvnodon dactvlon

50% of Total Cover: 1

50% of Total Cover: 0

**Woody Vine Stratum** 

1.\_\_

1.\_\_\_\_

**Herb Stratum** 

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

Dominant Species?

Cover

Absolute % Cover

0\_\_\_

0

0\_

0 \_

0

0\_\_\_ 0

0 0

0

0

0

0

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0

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0

0

0 0 Rel.Strat. Indicator

0.0%

0.0%

0.0% 0.0%

0.0% 0.0%

0.0%

= Total Cover

0.0%\_

0.0% 0.0%

0.0% 0.0%

0.0%

0.0%

= Total Cover

0.0%

0.0%\_ 0.0%

0.0%

0.0%

\_\_\_0.0%\_

= Total Cover

2 🗸 \_\_100.0%\_\_FACU\_\_

0.0%

0.0%

0.0%

0.0% 0.0% 0.0%\_ \_ 0.0%\_

0.0%

0.0%\_ 0.0%

0.0%\_ \_

0.0%

0.0%

0.0% 0.0%

\_\_\_0.0%\_\_\_

= Total Cover

= Total Cover

0.0%

0.0%

Status

Sampling Point: UPP1004						
Dominance Test worksheet:  Number of Dominant Species						
That are OBL, FACW, ro FAC:						
Total Number of Dominant Species Across All Strata: 1 (B						
Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/B)						
Prevalence Index worksheet:						
Total % Cover of: Multiply by:						
OBL species $0 \times 1 = 0$						
FAC species $0 \times 2 = 0$ FAC species $0 \times 3 = 0$						
FACU species $2 \times 4 = \frac{8}{0}$ UPL species $0 \times 5 = \frac{0}{0}$						
Colum Totals: $2$ (A) $8$ (B)						
Prevalence Index = B/A= 4.000						
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or						
Definition of Vegetation Strata:  Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).  Sapling - Woody plants, excluding woody vines,						
approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.						
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.						
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.						
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.						
Woody vine - All woody vines, regardless of height.						
Hydrophytic Vegetation Yes No  Present ?						

Domarke: (If ohe	carvad lict mai	rnhological ada	ntations holow)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			Redox F	eatures			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u></u> _	Tvpe <sup>1</sup>	Location <sup>2</sup>	Texture	Remarks
0 - 16	10YR 3/1	100					Silty Clay	
Type: C-Concentration	on D-Depletion PM/	-Poducad	Matrix CS-Covered	or Costed	Sand Grains	<sup>2</sup> l ocation: Pl =Poyo	Lining M-Matrix	
¹Type: C=Concentration	•	=кеаисеа	iviatrix, CS=Covered	or Coated	Sand Grains.	<sup>2</sup> Location: PL=Pore		atic Hydric Soile3:
Hydric Soil Indica	tors:						Indicators for Problema	atic myaric Soilss:
Histosol (A1)	(42)				Surface (S8) (		1 cm Muck (A9) (LRR	(0)
Histic Epipedon (	` '				ce (S9) (LRR S		2 cm Muck (A10) (LR	R S)
Black Histic (A3)					ineral (F1) (LR	R O)	Reduced Vertic (F18)	(outside MLRA 150A,B)
Hydrogen Sulfide	• •				latrix (F2)		Piedmont Floodplain	Soils (F19) (LRR P, S, T)
Stratified Layers				ed Matrix	• •			amy Soils (F20) (MLRA 153B)
	(A6) (LRR P, T, U)	1.10		Dark Surf	` '		Red Parent Material (	TF2)
	eral (A7) (LRR P, T,	U)			urface (F7)		Very Shallow Dark Su	rface (TF12)
Muck Presence (				Depressio	. ,		Other (Explain in Ren	narks)
1 cm Muck (A9)				10) (LRR				
	Dark Surface (A11)				(F11) (MLRA	•		
Thick Dark Surfa	` '		Iron-Ma	anganese	Masses (F12)	(LRR O, P, T)		
	dox (A16) (MLRA 15	,	Umbric	Surface (	(F13) (LRR P,	T, U)	3Indicators	of hydrophytic vegetation and
	eral (S1) (LRR O, S)	)	Delta C	chric (F1	7) (MLRA 151)	)		hydrology must be present,
Sandy Gleyed Ma			Reduce	d Vertic (	(F18) (MLRA 1	50A, 150B)	unless	disturbed or problematic.
Sandy Redox (S			Piedmo	nt Floodp	olain Soils (F19	) (MLRA 149A)		
Stripped Matrix (			Anoma	lous Brigh	nt Loamy Soils	(F20) (MLRA 149A	, 153C, 153D)	
Dark Surface (S7	7) (LRR P, S, T, U)							
Restrictive Layer ( Type: Depth (inches):	. ,					_	Hydric Soil Present? Ye	es O No •
Remarks:								

City/County: San Patricio

Applicant/Owner: Phillips 66 Pipeline, LLC	State: TX Sampling Point: UPP1005
Investigator(s): B. Bringhurst & A. Ostrowski	Section, Township, Range: S N/A T N/A R N/A
Landform (hillslope, terrace, etc.): Flat Local relief (	(concave, convex, none): Flat Slope: 1 % 0.6 °
Subregion (LRR): LRR T Lat: 27.909	9978 <b>Long: -</b> 97.379904 <b>Datum:</b> NAD 83
Soil Map Unit Name: Raymondville clay loam, 0 to 1 percent slopes (RaA)	NWI Classification: None
Are climatic/hydrologic conditions on the cite typical for this time of year?	os A No (If no ovnlain in Romarks )
	es No (If no, explain in Remarks.)
Are Vegetation 🗸 , Soil 🗸 , or Hydrology 🔲 significantly distur	
Are Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS — Attach site map showing sampling point loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No •	_
Hydric Soil Present? Yes ○ No ●	Is the Sampled Area within a Wetland?  Yes No  No
Wetland Hydrology Present? Yes No •	within a wetand:
Remarks:	
Hydric soil and wetland hydrology are not present. This is not a wetland.	
HYDROLOGY	
Wetland Hydrology Indicators:	
Primary Indicators (Minimum of one required; check all that apply)	Secondary Indicators (Minimum of 2 required)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
Water Marks (B1) Oxidized Rhizospheres along Liv	ving Roots (C3) Dry Season Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
Drift Deposits (B3)	Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present?  (includes capillary fringe)  Yes No Depth (inches):	Wetland Hydrology Present? Yes No •
(includes capitally fillinge)	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections),	if available:
Remarks:	
Remarks.	

**Project/Site:** Bluewater Terminal SPM Project

**Sampling Date:** 2/4/2019

(Plot Size : 30 )

20% of Total Cover: 2

(Plot Size : 30 )

(Plot Size : 30 )

**Tree Stratum** 

1 . Celtis laevigata

50% of Total Cover: 5

Shrub Stratum

**Herb Stratum** 

1 . Prosopis alandulosa

1 \_Helianthus annuus 2 . Galium aparine

3 . Chaerophyllum tainturieri

Sapling or Sapling/Shrub Stratum (Plot Size : 30 )

50% of Total Cover: 0 20% of Total Cover: 0

50% of Total Cover: 1.5 20% of Total Cover: 0.6

Dominant Species?

Cover

0.0%

= Total Cover

0.0%

10 ✓ \_\_100.0% \_\_FACW\_\_ 0.0%

Absolute % Cover

0

0

0

0

0

0

0

0

0

0

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0 0

3

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Rel.Strat. Indicator

0.0%

0.0%

0.0%

0.0%

0.0%\_ 0.0%

0.0%

0.0%\_

0.0%

\_\_\_\_0.0%\_\_

= Total Cover

3 ✓ \_100.0% \_UPL\_\_\_

0.0%

\_\_\_\_0.0%\_ = Total Cover

20 **✓** 44.4% FAC

15 **✓** \_\_33.3% \_FACU 10 ✓ \_\_22.2% \_FAC\_\_\_

0.0%

0.0%\_

0.0%\_

0.0%\_ 0.0%

0.0%\_

0.0%\_

0.0%

0.0%

0.0% 0.0%

0.0%

0.0% 0.0%

Status

Sampling Point: UPP1005							
Dominance Test worksheet:							
Number of Dominant Species							
That are OBL, FACW, ro FAC: (A)							
Total Number of Dominant Species Across All Strata:1 (B							
Percent of Dominant Species That are OBL, FACW, or FAC:  0.0% (A/B)							
Prevalence Index worksheet:							
Total % Cover of: Multiply by:							
OBL species $0 \times 1 = 0$							
FACW species $10 \times 2 = 20$							
FAC species $30 \times 3 = 90$							
FACU species $15 \times 4 = 60$							
UPL species $3 \times 5 = 15$							
Colum Totals: $2$ (A) $8$ (B)							
Prevalence Index = B/A= 4.000							
Hydrophytic Vegetation Indicators:							
1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is > 50% 3 - Prevalence Index is ≤ 3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or							
Definition of Vegetation Strata:							
Tree - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and 3 in. (7.6 cm) or larger in diameter at breast height (DBH).							
Sapling - Woody plants, excluding woody vines, approximately 20 ft (6 m) or more in height and less than 3 in. (7.6 cm) DBH.							
Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1m) tall.							
Shrub - Woody plants, excluding woody vines, approximately 3 to 20 ft (1 to 6 m) in height.							
Herb - All herbaceous (non-woody) plants, including herbaceous vines, regardless of size, and woody plants, except woody vines, less than approximately 3 ft (1 m) in height.							
Woody vine - All woody vines, regardless of height.							
Hydrophytic Vegetation Yes No  Present ?							

50% of Total Cover: 23	20% of Total Cover: 9	45	= Total Cover	Woody vine - All wo	ody vines, regardle	ss of height.
Woody Vine Stratum	(Plot Size : <u>30</u> )					
1		0	0.0%			
2		0	0.0%			
3		0_	0.0%	Hydrophytic		
4		0	0.0%	Vegetation	Yes 🔘 N	No 💿
5		0	0.0%	Present ?		
50% of Total Cover: 0	20% of Total Cover: 0	0	= Total Cover			
Remarks: (If observed, list mor	phological adaptations below).					
*Indicator suffix = National status o	r professional decision assigned bec	ause Regional s	tatus not defined by FWS.			
US Army Corps of Engineers	;			Atlantic and G	Gulf Coastal Plain Re	gion - Version 2.0

pe: C=Concentration, D=Depletion  dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (	, RM=Reduced Matrix, CS=Covere  Polyv Thin Loam Loam Deple U) Redo:		Texture Remarks  Silty Clay  In: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  T, U)
pe: C=Concentration, D=Depletion  dric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (	, RM=Reduced Matrix, CS=Covere  Polyv Thin Loam Loam Deple U) Redo:	ralue Below Surface (S8) (LRR S, T, Dark Surface (S9) (LRR S, T, U) ny Mucky Mineral (F1) (LRR O) ny Gleyed Matrix (F2) eted Matrix (F3)	In: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  (T, U)
ric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U) L cm Muck (A9) (LRR P, T) Oepleted Below Dark Surface (	Polyv Thin Loam Loam Deple U) Redo:	ralue Below Surface (S8) (LRR S, T, Dark Surface (S9) (LRR S, T, U) ny Mucky Mineral (F1) (LRR O) ny Gleyed Matrix (F2) eted Matrix (F3)	Indicators for Problematic Hydric Soils <sup>3</sup> :  T, U)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 150A,B)  Piedmont Floodplain Soils (F19) (LRR P, S, T)
Iric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (	Polyv Thin Loam Loam Deple U) Redo:	ralue Below Surface (S8) (LRR S, T, Dark Surface (S9) (LRR S, T, U) ny Mucky Mineral (F1) (LRR O) ny Gleyed Matrix (F2) eted Matrix (F3)	Indicators for Problematic Hydric Soils <sup>3</sup> :  T, U)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 150A,B)  Piedmont Floodplain Soils (F19) (LRR P, S, T)
Iric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydrogen Sulfide (A4)  Stratified Layers (A5)  Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U)  1 cm Muck (A9) (LRR P, T)  Depleted Below Dark Surface (	Polyv Thin Loam Loam Deple U) Redo:	ralue Below Surface (S8) (LRR S, T, Dark Surface (S9) (LRR S, T, U) ny Mucky Mineral (F1) (LRR O) ny Gleyed Matrix (F2) eted Matrix (F3)	Indicators for Problematic Hydric Soils <sup>3</sup> :  T, U)  1 cm Muck (A9) (LRR O)  2 cm Muck (A10) (LRR S)  Reduced Vertic (F18) (outside MLRA 150A,B)  Piedmont Floodplain Soils (F19) (LRR P, S, T)
Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T)	U)	Dark Surface (S9) (LRR S, T, U)  Ny Mucky Mineral (F1) (LRR O)  Ny Gleyed Matrix (F2)  eted Matrix (F3)	1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Organic Bodies (A6) (LRR P, T, 5 cm Mucky Mineral (A7) (LRR Muck Presence (A8) (LRR U) 1 cm Muck (A9) (LRR P, T) Depleted Below Dark Surface (	U)	Dark Surface (S9) (LRR S, T, U)  Ny Mucky Mineral (F1) (LRR O)  Ny Gleyed Matrix (F2)  eted Matrix (F3)	2 cm Muck (A10) (LRR S) Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)
Coast Prairie Redox (A16) (MLI Sandy Muck Mineral (S1) (LRR Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR P, S, T	Marl ( A11) Deple  Iron- RA 150A) Umbr O, S) Delta  Redu  Piedn Anom	eted Dark Surface (F7)  x Depressions (F8)  (F10) (LRR U)  eted Ochric (F11) (MLRA 151)  Manganese Masses (F12) (LRR O, I  ric Surface (F13) (LRR P, T, U)  Ochric (F17) (MLRA 151)  ced Vertic (F18) (MLRA 150A, 150I  nont Floodplain Soils (F19) (MLRA  nalous Bright Loamy Soils (F20) (M	Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)  P, T)  3Indicators of hydrophytic vegetation a wetland hydrology must be present, unless disturbed or problematic.  149A)
strictive Layer (If observed) Type: Depth (inches):	:		Hydric Soil Present? Yes ○ No ●
Depth (inches):			

erminal SPM Project	City/C	County: San Patricio	Sampling	<b>Date:</b> 2/4/2019
66 Pipeline, LLC		State: TX	Sampling Point:	UPP1006
nurst & A. Ostrowski		Section, To	wnship, Range: S N/A	T N/A R N/A
: <b>e, etc.):</b> Flat	Local	relief (concave, conv	rex, none): Convex	<b>Slope:</b> 3 % 1.7 °
			-	Datum: NAD 83
mondville clay loam 1 to 3 per		-		
nditions on the site typical	for this time of year?	Yes (●) No	(If no, explain in Rema	rks.)
Soil , or Hydrology	significantly	disturbed? Are	e "Normal Circumstances" pre	esent? Yes • No
Soil , or Hydrology	naturally pre	oblematic? (If	needed, explain any answers	in Remarks.)
SS — Attach site map sh	owing sampling poin	nt locations, transe	ects, important features, e	etc.
sent? Yes •	No O	la tha Carr	and ad Amar	
Yes 🔾	No •			Yes O No 💿
? Yes •	No O			
nis is not a wetland.				
cators:				
	ck all that apply)		Secondary Indicators (Min	imum of 2 required)
	,			• •
		R U)		` '
		•		•
		•		
)	_			
	Recent Iron Reduction in	n Tilled Soils (C6)		
	Thin Muck Surface (C7)			
	Other (Explain in Remar	ks)	Shallow Aquitard (D3	)
erial Imagery (B7)		•	FAC-Neutral Test (DS	5)
B9)			Sphagnum moss (D8	) (LRR T, U)
Yes O No 💿	Depth (inches):			
Yes O No 💿	Depth (inches):			
Yes O No •	Depth (inches):		Wetland Hydrology Presen	t? Yes • No O
tream gauge, monitor well, aer	rial photos, previous inspec	ctions), if available:		
	mondville clay loam, 1 to 3 pero anditions on the site typical Soil  , or Hydrology Soil  , or Hydrology Soil  , or Hydrology Sent? Yes Yes Yes Yes This is not a wetland.	hurst & A. Ostrowski  ce, etc.): Flat Local Lat: mondville clay loam, 1 to 3 percent slopes (RaB)  Inditions on the site typical for this time of year?  Soil , or Hydrology significantly Soil , or Hydrology naturally prospective in the site map showing sampling point sent?  Yes No  ? Yes No  ? Yes No  Aquatic Fauna (B13) Marl Deposits (B15) (LR Hydrogen Sulfide Odor (Oxidized Rhizospheres at Presence of Reduced Irrollogy Recent Iron Reduction in Control of Control	hurst & A. Ostrowski  Section, To  Local relief (concave, conv.  Lat: 27.909526  monodville clay loam, 1 to 3 percent slopes (RaB)  Inditions on the site typical for this time of year? Yes No  Soil , or Hydrology significantly disturbed? Are Soil , or Hydrology naturally problematic? (If  GS — Attach site map showing sampling point locations, transe  sent? Yes No  Yes No  Is the Sam within a W  Presented all that apply)  Aquatic Fauna (B13)  Hydrogen Sulfide Odor (C1)  Oxidized Rhizospheres along Living Roots (C3)  Presence of Reduced Iron (C4)  Recent Iron Reduction in Tilled Soils (C6)  Thin Muck Surface (C7)  Other (Explain in Remarks)  Are No  Depth (inches):  Yes No  Depth (inches):  Depth (inches):	hurst & A. Ostrowski  Eq. etc.): Flat  Local relief (concave, convex, none): Convex  Lat: 27.909526  Long: -97.37683  mondville clay loam, 1 to 3 percent slopes (RaB)  NWI Classification: PUBFh  unditions on the site typical for this time of year? Yes No (If no, explain in Remail  Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" pre  Soil , or Hydrology naturally problematic? (If needed, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain any answers  SS – Attach site map showing sampling point locations, transects, important features, explain in Remarks  Soil , or Hydrology Peasen  No