Project/Site: 130 Environmental Park		City/C	ounty:	Lockhai	rt/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC						Sampling Point: T6-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyr						
Landform (hillslope, terrace, etc.): None					-	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to						
Are climatic / hydrologic conditions on the site typical for the						
Are Vegetation, Soil, or Hydrology	•					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology					eded, explain any answe	
SUMMARY OF FINDINGS – Attach site mag						·
	/					
Hydrophytic Vegetation Present? Yes  Hydric Soil Present? Yes			Is the	e Sampled		
Wetland Hydrology Present? Yes	No 🗸		withi	n a Wetlar	nd? Yes	No ✓
Remarks:					n = 10 1 0	
VEGETATION – Use scientific names of pla	nts.					
Tree Stratum (Plot size: 30'	Absolute			Indicator	Dominance Test work	ksheet:
	% Cover				Number of Dominant S That Are OBL, FACW,	
1.					(excluding FAC-):	1 (A)
3.					Total Number of Domi	nont
4					Species Across All Str	
		= Tot	al Cov	er	Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 15' )					That Are OBL, FACW,	
1. Prosopis glandulosa	25	Yes		FACU	Prevalence Index wo	rkshoot:
2						Multiply by:
3						x1=
4					1	x 2 =
5	25		al Cov		1	x 3 =
Herb Stratum (Plot size: 5'		= 101	ai Cov	er	1	x 4 =
1. Opuntia engelmannii	5	No		NI	UPL species	
2. Nassella leucotricha	50	Yes		NI		(A)(B)
3. Monarda citriodora	60	Yes		NI	Provolence Index	- D/A =
4. Ambrosia artemisiifolia		No		FAU	Hydrophytic Vegetati	c = B/A =
5. Coreopsis tinctoria		Yes		FAC		Hydrophytic Vegetation
6					2 - Dominance Te	• • •
7					3 - Prevalence Ind	
8						Adaptations <sup>1</sup> (Provide supporting
9		_			data in Remark	s or on a separate sheet)
10	195	- T-4	al Cov		Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30' )	100				<sup>1</sup> Indicators of hydric so be present, unless dist	oil and wetland hydrology must durbed or problematic.
2.					Hydrophytic	
		= Tot	al Cov	er	Vegetation	
% Bare Ground in Herb Stratum 5					Present? Ye	es No <u>/</u>
Remarks:						

Profile Descrip	otion: (Describe	to the depth ne	eded to document the in	dicator or confirm	the absence	of indicators.)
Depth _	Matrix		Redox Features			_
(inches)	Color (moist)	% C	olor (moist) %	Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
l						
<sup>1</sup> Type: C=Cond	centration, D=Dep	oletion, RM=Red	uced Matrix, CS=Covered	or Coated Sand Gr	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
Hydric Soil Inc	licators: (Applic	able to all LRR	s, unless otherwise note	d.)	Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	.1)		Sandy Gleyed Mat	rix (S4)	1 cm M	luck (A9) (LRR I, J)
Histic Epip	edon (A2)		Sandy Redox (S5)		Coast F	Prairie Redox (A16) (LRR F, G, H)
Black Histi	c (A3)		Stripped Matrix (Se	5)	Dark Si	urface (S7) (LRR G)
Hydrogen	Sulfide (A4)		Loamy Mucky Mine	eral (F1)	High Pl	ains Depressions (F16)
Stratified L	ayers (A5) (LRR	F)	Loamy Gleyed Mat	. ,	•	R H outside of MLRA 72 & 73)
	(A9) (LRR F, G,		Depleted Matrix (F		_	ed Vertic (F18)
	elow Dark Surfac	e (A11)	Redox Dark Surface	` '	_	rent Material (TF2)
_	Surface (A12)		Depleted Dark Sur			hallow Dark Surface (TF12)
	ky Mineral (S1)		Redox Depression			Explain in Remarks)
_	cky Peat or Peat			, ,		of hydrophytic vegetation and
5 cm Muck	y Peat or Peat (S	3) (LRR F)	(MLRA 72 & 7	of LRR H)		hydrology must be present,
	(*F 4)				uniess	disturbed or problematic.
	yer (if present):					
"						,
Depth (inche	es):				Hydric Soil	Present? Yes No ✓
Remarks:						
HYDROLOG	Y					
Wetland Hydro	ology Indicators:					
			eck all that apply)		Seconda	ry Indicators (minimum of two required)
Surface Wa			Salt Crust (B11)			ace Soil Cracks (B6)
ı —	Table (A2)		Aquatic Invertebrates	(B13)		rsely Vegetated Concave Surface (B8)
Saturation			Hydrogen Sulfide Od	• •		nage Patterns (B10)
Water Mari			Dry-Season Water Ta	` '		ized Rhizospheres on Living Roots (C3)
_	Deposits (B2)		Oxidized Rhizosphere	` '		here tilled)
Sediment to			(where not tilled)	SO OII EIVING TOOKS	, ,	fish Burrows (C8)
			Presence of Reduced	Uron (C4)	-	ration Visible on Aerial Imagery (C9)
<u> </u>	or Crust (B4)		Thin Muck Surface (C	, ,		,
Iron Depos	,	Imagas: (D7)		•		morphic Position (D2)
_	Visible on Aerial	imagery (B7)	Other (Explain in Rer	iaiks)		-Neutral Test (D5)
	ned Leaves (B9)			Ţ	Fros	t-Heave Hummocks (D7) (LRR F)
Field Observat						
Surface Water			Depth (inches):			
Water Table Pr	esent?	'es No _	Depth (inches):			
Saturation Pres	ent?	'es No _	Depth (inches):	Weti	and Hydrology	Present? Yes No ✓
(includes capilla	ary fringe)		ing well gardet at the	ulaua la ana sitia	if a vallet !	
Describe Recor	ded Data (stream	i gauge, monitor	ing well, aerial photos, pre	vious inspections),	ıı avaılable:	
Remarks:						

Project/Site: 130 Environmental Par	k		City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	Sam	pling Date: 0	6/19/2013
Applicant/Owner: 130 Environmental					State: TX			
Investigator(s): Troegle, Josh & Little							· -	
Landform (hillslope, terrace, etc.): Depre				-		oncave	Sione	- (%)· 0-1
Subregion (LRR): J - Southwestern P								
Soil Map Unit Name: WgC - Wilson grav								. 14 12 00
Are climatic / hydrologic conditions on the								
Are Vegetation, Soil, or Hy					"Normal Circumstar			No
Are Vegetation, Soil, or Hy					eded, explain any			140
SUMMARY OF FINDINGS - Atta							•	tures, etc.
Hydrophytic Vegetation Present?	Yes <u>√</u>	No						
Hydric Soil Present?	Yes ✓			ls the Sampled within a Wetlar		s <u>√</u>	N.a.	
Wetland Hydrology Present?	Yes <u>√</u>	No	'	Willia Wellai	ild: Fes	,	NO	
Remarks:			•					
Appears to be an old pig wallow.								
VEGETATION – Use scientific n	amos of nis	ınte			<del> </del>			
VEGETATION - Ose scientific in	anies or pie	Absolute	Domir	nant Indicator	Dominance Tes	t workshoot		
Tree Stratum (Plot size: 30'	)			es? Status	Number of Domin			
1. Prosopis glandulosa		50	Yes	<u>FACU</u>	That Are OBL, F			
2. Quercus virginiana			No	FACU	(excluding FAC-	):	4	(A)
3. Ulmus crassifolia		25	Yes	FAC	Total Number of	Dominant	_	
4. Celtis occidentalis	<del> </del>	10	No	FAC	Species Across A	All Strata:	7	(B)
151		95	= Total	Cover	Percent of Domir	nant Species		
Sapling/Shrub Stratum (Plot size: 15' 1. Prosopis glandulosa	)	10	Yes	FACU	That Are OBL, F	ACW, or FAC	57 <u>57</u>	(A/B)
2. Ulmus crassifolia		$-\frac{10}{10}$	Yes	FAC	Prevalence Inde	x workshee	t:	
3. Diospyrus texana		15	Yes	NI NI	Total % Cov	er of:	Multiply	by:
4. Quercus virginiana			No	FACU	OBL species		x 1 =	
5.					FACW species		x 2 =	
0		40	= Total	Cover	FAC species		x 3 =	
Herb Stratum (Plot size: 5'	)				FACU species _		x 4 =	
1. Eleocharis palustris		90	Yes	OBL	UPL species _			
2. Iva annua			Yes	FAC	Column Totals:		(A)	(B)
3	<del> </del>				Prevalence	Index = R/A	· =	
4					Hydrophytic Ve			
5					1 - Rapid Te	_		ion
6					✓ 2 - Dominan			
7			-		3 - Prevalence	ce Index is ≤	3.0 <sup>1</sup>	
8					1		tions <sup>1</sup> (Provid	e supporting
9					1		a separate s	•
10		115	= Total	Cover	Problematic	Hydrophytic '	Vegetation <sup>1</sup> (F	Explain)
Woody Vine Stratum (Plot size: 30'	)		- Total	Cover	<sup>1</sup> Indicators of hyd	tric soil and v	vetland hydro	logy must
1					be present, unles	s disturbed o	or problemation	). 
2					Hydrophytic			
20			= Total	Cover	Vegetation Present?	Voc √	No	
% Bare Ground in Herb Stratum 20				~~~~~	, resent;			
Remarks: Sapling/Shrub and tree on perimeter	of depression	,						
Caping/Onlab and fied on perimeter	or achiesoni	1.						
US Army Corps of Engineers					····	G	reat Plains -	Version 2.0

Sampling Point: T6-DP2

Profile Description: (Describe to the dep				or confir	m the absence of	indicators.)
Depth Matrix (inches) Color (moist) %	Color (moist)	dox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8 10 YR 3/1 85	5 YR 5/8	<del></del> 78	C	M/PL	Clay	Komerko
30			<u> </u>			
1- D.	Deduced Metric				21	on Disposalining Matteria
<sup>1</sup> Type: C=Concentration, D=Depletion, RM: Hydric Soil Indicators: (Applicable to all				ed Sand G		on: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		y Gleyed M				k (A9) (LRR I, J)
Histic Epipedon (A2)		y Redox (S				nirie Redox (A16) (LRR F, G, H)
Black Histic (A3)		ed Matrix (	-			ace (S7) (LRR G)
Hydrogen Sulfide (A4)		y Mucky Mi				ns Depressions (F16)
Stratified Layers (A5) (LRR F)		y Gleyed M			•	H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H) Depleted Below Dark Surface (A11)		eted Matrix ( x Dark Surf				Vertic (F18) nt Material (TF2)
Thick Dark Surface (A11)		ted Dark Sun		·)		low Dark Surface (TF12)
Sandy Mucky Mineral (S1)		x Depressio		,		plain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR		Plains Depr				hydrophytic vegetation and
5 cm Mucky Peat or Peat (S3) (LRR F)	(N	ILRA 72 &	73 of LR	R H)		ydrology must be present,
Bediethe Levertife property					unless dis	sturbed or problematic.
Restrictive Layer (if present):  Type: Clay pan						
Depth (inches): Eight					Hudric Soil Br	esent? Yes ✓ No
					Hydric Soil Fit	esentr tes No
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one require	d; check all that ar	ply)			Secondary	Indicators (minimum of two required)
Surface Water (A1)	Salt Cru	st (B11)			Surface	e Soil Cracks (B6)
High Water Table (A2)		Invertebrate	' '			ly Vegetated Concave Surface (B8)
Saturation (A3)		en Sulfide C				ge Patterns (B10)
Water Marks (B1)		son Water		-		ed Rhizospheres on Living Roots (C3)
Sediment Deposits (B2)	✓ Oxidized			ving Roots	, ,	re tilled)
Drift Deposits (B3)	,	e not tilled e of Reduc	•	·// \		h Burrows (C8) ion Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Iron Deposits (B5)		ck Surface		, ,		orphic Position (D2)
Inundation Visible on Aerial Imagery (B		Explain in R				eutral Test (D5)
Water-Stained Leaves (B9)			,			leave Hummocks (D7) (LRR F)
Field Observations:				T		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	No ✓ Depth	(inches):		_		
	No <u>✓</u> Depth			1		
	No ✓ Depth				land Hydrology P	resent? Yes ✓ No
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	onitoring well, aeri	ai priotos, p	revious ir	spections)	, ir avallable:	
Remarks:						

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/19/2013		
Applicant/Owner: 130 Environmental Park, LLC				State: TX Sampling Point: T6-DP3			
Investigator(s): Troegle, Josh & Littleton, Brandyn							
Landform (hillslope, terrace, etc.): None					Slope (%); 0-1		
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to							
Are climatic / hydrologic conditions on the site typical for th							
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ No		
Are Vegetation, Soil, or Hydrology				eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site map					•		
	. /						
Hydrophytic Vegetation Present? Yes Nydric Soil Present? Yes Neg N	No <u>v</u>	Is th	e Sampled		,		
Wetland Hydrology Present? Yes	Vo √	with	in a Wetlar	nd? Yes	No <u>√</u>		
Remarks:							
				-44/4-00			
VEGETATION - Use scientific names of plan	nts.						
201	Absolute		Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'		Species?	_	Number of Dominant S			
1. Celtis laevigata	- <sup>50</sup> / <sub>75</sub>	Yes Yes	FACU	That Are OBL, FACW, (excluding FAC-):	or FAC (A)		
2. Prosopis glandulosa			TACO		,		
3				Total Number of Domir Species Across All Stra	7		
4	125	= Total Co			、,		
Sapling/Shrub Stratum (Plot size: 15'		- Total Co	vei	Percent of Dominant S That Are OBL, FACW,			
1. Celtis laevigata	20	Yes	FACU		(***)		
2. Prosopis glandulosa	40	Yes	FACU	Prevalence Index wor			
3. Diospyros texana		N	NI		<u>Multiply by:</u> x 1 =		
4					x2=		
5					x 3 =		
Herb Stratum (Plot size: 5')	75	= Total Co	ver		x 4 =		
1 Salvia coccinea	50	Yes	NI	UPL species			
2. Cylindropuntia leptocaulis	10	No	NI		(A)(B)		
3 Eupatorium incarna	60	Yes	NI				
4. Rottboellia cochinchinensis	1	No	FACU		= B/A =		
5				Hydrophytic Vegetation			
6.				1 - Rapid Test for I	, , , ,		
7				2 - Dominance Tes			
8				3 - Prevalence Ind			
9.				data in Remark	Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)		
10				Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)		
30'	121	= Total Co	ver	1 Indicators of budgie as	il and wetland hydrology must		
Woody Vine Stratum (Plot size: 30' )  1. Cissus incisa	5	Yes	NI	be present, unless dist			
2.				Hydrophytic			
2.	5	= Total Co	ver	Vegetation	,		
% Bare Ground in Herb Stratum 10				Present? Ye	es No		
Remarks:							

						or confirm	the absence of indicato	rs.)
Depth (inches)	Color (moist)		Redo plor (moist)	ox Feature %	Type <sup>1</sup>	Loc²	Texture	Remarks
(inches)	Color (moist)		JIOI (IIIOISI)		Type		Texture	Remarks
						-		
		epletion, RM=Redu				ed Sand Gr		Pore Lining, M=Matrix.
Hydric Soil I	ndicators: (App	licable to all LRRs	, unless othe	rwise no	ted.)		Indicators for Probler	natic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Sandy	Gleyed M	atrix (S4)		1 cm Muck (A9) (L	RR I, J)
Histic Ep	ipedon (A2)		Sandy	Redox (S	5)		Coast Prairie Redo	ox (A16) (LRR F, G, H)
Black His	stic (A3)		Strippe	d Matrix (	S6)		Dark Surface (S7)	(LRR G)
Hydroger	n Sulfide (A4)		Loamy	Mucky M	ineral (F1)		High Plains Depres	
Stratified	Layers (A5) (LR	RF)	Loamy	Gleyed M	latrix (F2)		(LRR H outside	e of MLRA 72 & 73)
_	ck (A9) (LRR F, C			ed Matrix			Reduced Vertic (F	,
	Below Dark Surf	ace (A11)		Dark Surf			Red Parent Materi	• •
_	rk Surface (A12)				urface (F7	)	Very Shallow Dark	, ,
_	ucky Mineral (S1			Depressi	, ,		Other (Explain in F	
		at (S2) (LRR G, H)			ressions (F	-	<sup>3</sup> Indicators of hydrophy	_
5 cm Mud	cky Peat or Peat	(S3) ( <b>LRR F</b> )	(MI	LRA 72 &	73 of LRF	R H)	wetland hydrology	
							unless disturbed o	r problematic.
Restrictive L	ayer (if present)	:						
Type:								
Depth (inc	hes):						Hydric Soil Present?	Yes No <u>√</u>
Remarks:								
HYDROLOG	GY							
Wetland Hyd	Irology Indicato	rs:						
-		of one required; che	ck all that ann	nlv)			Secondary Indicator	s (minimum of two required)
		il one required, one					Surface Soil Cra	
	Water (A1)		Salt Crus	. ,	(D42)		_	
	ter Table (A2)			vertebrat				ated Concave Surface (B8)
Saturatio			Hydroger		. ,		Drainage Patter	
Water Ma	arks (B1)		_ ·		Table (C2)			spheres on Living Roots (C3)
	t Deposits (B2)		Oxidized			ing Roots		
Drift Dep	osits (B3)		-	not tilled	•		Crayfish Burrow	s (C8)
Algal Mat	t or Crust (B4)		Presence	of Reduc	ed Iron (C	4)	Saturation Visib	le on Aerial Imagery (C9)
Iron Depo	osits (B5)		Thin Muc	k Surface	(C7)		Geomorphic Po	sition (D2)
Inundatio	on Visible on Aeri	al Imagery (B7)	Other (Ex	plain in R	emarks)		FAC-Neutral Te	st (D5)
Water-St	ained Leaves (B9	9)					Frost-Heave Hu	mmocks (D7) (LRR F)
Field Observ		·			www.			
Surface Wate		Yes No <u>▼</u>	Denth (ii	nches).				
		Yes No _						
Water Table I							and Hadada	v
Saturation Pro		Yes No _	Depth (i	nches):		_   Weti	and Hydrology Present?	res No <u>▼</u>
(includes cap	orded Data (stre	am gauge, monitori	ng well aerial	photos r	revious in	spections)	if available:	
Pescribe Kec	olded Data (siles	an gaage, monton		p1,0100, p		-positio),	aranasioi	
Remarks:								

Project/Site: 130 Environmental Park  Applicant/Owner: 130 Environmental Park, LLC  Investigator(s): Troegle, Josh & Littleton, Brandyn  Landform (hillslope, terrace, etc.): None  Subregion (LRR): J - Southwestern Prairies  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in Face)  Soil Map Unit Name: None (If no, explain in Face)	Slope (%): <u>2-4</u>
Investigator(s): Troegle, Josh & Littleton, Brandyn  Landform (hillslope, terrace, etc.): None  Subregion (LRR): J - Southwestern Prairies  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes  NA  Local relief (concave, convex, none): None  Long: -97.66  NWI classific	Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies Lat: 29.97 Long: -97.66  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes NWI classifie	
Subregion (LRR): J - Southwestern Prairies Lat: 29.97 Long: -97.66  Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to 5 percent slopes NWI classifie	NAD 02
	Datum: NAD 03
Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No (If no, explain in F	
	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 answer	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes √ No Is the Sampled Area	
is the sampled Area	No <u>√</u>
Wetland Hydrology Present? Yes No ✓	NO
Remarks:	
VEGETATION – Use scientific names of plants.	
Tree Stratum (Plot size: 30' ) Absolute Dominant Indicator Species? Status Number of Dominant S	
1. Ulmus crassifolia 75 Yes FAC Number of Dominant S	•
2. Quercus stellata 25 Yes FACU (excluding FAC-):	4 (A)
3. Prosopis glandulosa 10 No FACU Total Number of Domin	nant
4. Celtis laevigata 10 No FAC Species Across All Stra	7
150 = Total Cover Percent of Dominant S	nocios
Sapling/Shrub Stratum (Plot size: 15' That Are OBL, FACW,	
1. Diospyros texana 10 No nl Prevalence Index wo	rkehoet
2. Cimus crassifolia	
3. Manonia ii fottotata	x 1 =
4. The volution is	x 2 =
5. FAC species	x 3 =
- Total Cover	x 4 =
1. Teucrium canadense 20 Yes FACW UPL species	
	(A) (B)
3. Nassella leucotricha 40 Yes NI	(-)
4 Opuntia engelmannii 2 No NI Prevalence Index	c = B/A =
5. Hydrophytic Vegetati	
1 - Rapid Test for	Hydrophytic Vegetation
2 - Dominance Te:	
8 3 - Prevalence Ind	
9 4 - Morphological / data in Remark	Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)
	ophytic Vegetation <sup>1</sup> (Explain)
82 = Total Cover	
Troody vine enature.	oil and wetland hydrology must
1. Smilas rotunationa 3 Tro The	
2 Hydrophytic	
5 - Vegetation	es_ <u>√</u> No
% Bare Ground in Herb Stratum 30   Second Se	
% Bare Ground in Herb Stratum 30	
% Bare Ground in Herb Stratum 30 Present? Ye	

Depth Matrix		Red	ox Feature	es			
(inches) Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8 10 YR 3/1	85 5	YR 5/8	15	С	M/PL	Clay	
		**					
			***************************************				
Type: C=Concentration, D=D	epletion, RM=Re	duced Matrix. C	S=Covere	d or Coate	d Sand G	rains. <sup>2</sup> Locat	ion: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (App							r Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			Gleyed M				ck (A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2)			Redox (S				airie Redox (A16) (LRR F, G, H)
Black Histic (A3)			ed Matrix (				face (S7) (LRR G)
Hydrogen Sulfide (A4)			Mucky Mi	,			ns Depressions (F16)
Stratified Layers (A5) (LR	RF)		Gleyed M				H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, C			ed Matrix			,	Vertic (F18)
Depleted Below Dark Surf		✓ Redox	Dark Surf	ace (F6)			ent Material (TF2)
Thick Dark Surface (A12)		Deplet	ed Dark S	urface (F7	)	Very Sha	llow Dark Surface (TF12)
Sandy Mucky Mineral (S1			Depression	, ,			rplain in Remarks)
2.5 cm Mucky Peat or Pea	at (S2) (LRR G, F	l) High P	Plains Depr	essions (F	16)		hydrophytic vegetation and
5 cm Mucky Peat or Peat	(S3) ( <b>LRR F</b> )	(M	LRA 72 &	73 of LRF	( H)		ydrology must be present,
						unless di	sturbed or problematic.
Restrictive Layer (if present)	:						
						ì	
Type: Clay Pan / Cobble		_					
Type: Clay Pan / Cobble Depth (inches): Eight		<u>-</u>				Hydric Soil P	resent? Yes <u>√</u> No
Type: Clay Pan / Cobble						Hydric Soil P	resent? Yes ✓ No
Type: Clay Pan / Cobble Depth (inches): Eight	-010					Hydric Soil P	resent? Yes ✓ No
Type: Clay Pan / Cobble Depth (inches): Eight						Hydric Soil P	resent? Yes <u>√</u> No
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:						Hydric Soil P	resent? Yes <u>√</u> No
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:		-				Hydric Soil P	resent? Yes <u>✓</u> No
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY Wetland Hydrology Indicator		-				Hydric Soil P	resent? Yes <u>√</u> No
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:		heck all that ap	ply)				resent? Yes ✓ No
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY Wetland Hydrology Indicator		heck all that ap				Secondary	
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1)		Salt Crus		es (B13)		Secondary Surface	Indicators (minimum of two required
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of		Salt Crus	st (B11) nvertebrat			Secondary Surfac	Indicators (minimum of two required the Soil Cracks (B6)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the company of t		Salt Crus Aquatic I Hydroge	st (B11) nvertebrat	dor (C1)		Secondary Surfac Sparso Draina	Indicators (minimum of two required se Soil Cracks (B6) ely Vegetated Concave Surface (B8)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the company of t		Salt Crus Aquatic I Hydrogei Dry-Seas	st (B11) nvertebrat n Sulfide C son Water	odor (C1) Table (C2)		Secondary Surface Sparse Draina Oxidiz	Indicators (minimum of two required se Soil Cracks (B6) ely Vegetated Concave Surface (B8) age Patterns (B10)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the company of t		Salt Crus Aquatic I Hydroges Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C	odor (C1) Table (C2) eres on Liv		Secondary Surface Sparse Draina Oxidiz (C3)	Indicators (minimum of two required the Soil Cracks (B6) the Vegetated Concave Surface (B8) the Patterns (B10) the Rhizospheres on Living Roots (C3
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  TYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the company of t		Salt Crus Aquatic I Hydroges Dry-Seas Oxidized (where	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled	odor (C1) Table (C2) eres on Liv	ring Roots	Secondary Surface Sparse Draina Oxidiz (C3) (whe	Indicators (minimum of two required be Soil Cracks (B6) bely Vegetated Concave Surface (B8) age Patterns (B10) bed Rhizospheres on Living Roots (C3 bere tilled) sh Burrows (C8)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  TYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color		Salt Crus Aquatic I Hydroges Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc	Odor (C1) Table (C2) eres on Liv ) ed Iron (C	ring Roots	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) as Burrows (C8) ation Visible on Aerial Imagery (C9)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  TYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color	f one required; c	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface	Odor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7)	ring Roots	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Crayfie Satura Geom	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3) are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) orphic Position (D2)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the company of t	of one required; c	Salt Crus Aquatic I Hydroges Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface	Odor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7)	ring Roots	Secondary Surfac Sparse Draina Oxidiz (C3) (wh Crayfie Satura Geom	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) corphic Position (D2) leutral Test (D5)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the company of	of one required; c	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface	Odor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7)	ring Roots	Secondary Surfac Sparse Draina Oxidiz (C3) (wh Crayfie Satura Geom	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3) are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) orphic Position (D2)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  PYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the color	of one required; contained; conta	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface xplain in R	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots	Secondary Surfac Sparse Draina Oxidiz (C3) (wh Crayfie Satura Geom	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) corphic Position (D2) leutral Test (D5)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  TYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots	Secondary Surfac Sparse Draina Oxidiz (C3) (wh Crayfie Satura Geom	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) corphic Position (D2) leutral Test (D5)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  PYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface xplain in R	Odor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ring Roots	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Crayfie Satura Geom FAC-N Frost-	Indicators (minimum of two required to Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) orphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  TYDROLOGY Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosphe not tilled e of Reduc ck Surface xplain in R	Odor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ring Roots	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Crayfie Satura Geom FAC-N Frost-	Indicators (minimum of two required the Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) atton Visible on Aerial Imagery (C9) corphic Position (D2) leutral Test (D5)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  PYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R inches): inches): inches): inches):	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots 4) Wet	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Satura Geom FAC-N Frost-	Indicators (minimum of two required to Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (Capre tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) corphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R inches): inches): inches): inches):	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots 4) Wet	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Satura Geom FAC-N Frost-	Indicators (minimum of two required to Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (Capre tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) corphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the composition of th	al Imagery (B7)  Yes No Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R inches): inches): inches): inches):	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots 4) Wet	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Satura Geom FAC-N Frost-	Indicators (minimum of two required to Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (C3 are tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) orphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the color	al Imagery (B7)  Yes No Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R inches): inches): inches): inches):	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots 4) Wet	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Satura Geom FAC-N Frost-	Indicators (minimum of two required to Soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (Capre tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) corphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)
Type: Clay Pan / Cobble Depth (inches): Eight Remarks:  YDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the composition of th	al Imagery (B7)  Yes No Yes No Yes No	Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Presence Thin Muc Other (E	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R inches): inches): inches): inches):	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ring Roots 4) Wet	Secondary  Surface Sparse Draina Oxidiz  (C3) (whe Satura Geom FAC-N Frost-	Indicators (minimum of two required to soil Cracks (B6) aly Vegetated Concave Surface (B8) age Patterns (B10) and Rhizospheres on Living Roots (Care tilled) ash Burrows (C8) ation Visible on Aerial Imagery (C9) orphic Position (D2) aleutral Test (D5) Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Cou	<sub>unty:</sub> Lockha	art/Caldwell	Sampling Date: 06/19/2013
Applicant/Owner: 130 Environmental Park, LLC		-	-		Sampling Point: T6-DP5
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): None					Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HoC2 - Houston Black clay, 3 to 5					
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrology s					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					•
		<u> </u>	g po		, important routaros, otor
Hydrophytic Vegetation Present? YesN		l	s the Sample	d Area	
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	0 <u>v</u>	\	within a Wetla	nd? Yes	No <u>✓</u>
Wetland Hydrology Present? Yes N  Remarks:	···				
iveriaria.					
VEGETATION – Use scientific names of plan	ts.				
VEGETATION GGG GGGMANG NAMEG GT PIAN	Absolute	Domir	ant Indicator	Dominance Test work	sheet.
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S	
1. Quercus stellata	85	Yes	FACU	That Are OBL, FACW,	or FAC
2. Ulmus crassifolia	25	Yes	FAC	(excluding FAC-):	<u>3</u> (A)
3				Total Number of Domir	nant _
4				Species Across All Stra	ata: <u>7</u> (B)
0. 6. 70. 1.00.1	110	= Total	Cover	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' )  1. Mahonia trifoliolata	25	Yes	NI	That Are OBL, FACW,	or FAC: 43 (A/B)
2. Ilex vomitoria	50	Yes	FAC	Prevalence Index wor	ksheet:
3. Crataegus spathulata	5	No	FAC	Total % Cover of:	Multiply by:
4.				OBL species	x 1 =
5.					x 2 =
	80	= Total	Cover	1	x 3 =
Herb Stratum (Plot size: 5'					x 4 =
1. Eupatorium incarnatum	_ 20	Yes	<u>NI</u>		x 5 =
2. Setaria leucopila		Yes	NI	Column Totals:	(A) (B)
3.				Prevalence Index	= B/A =
4				Hydrophytic Vegetation	
5				1 - Rapid Test for I	Hydrophytic Vegetation
6				2 - Dominance Tes	st is >50%
7				3 - Prevalence Ind	ex is ≤3.0 <sup>1</sup>
8 9				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
10.					s or on a separate sheet)
10.	95	= Total	Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'			0010.		il and wetland hydrology must
1. Smilax rotundifolia		Yes	FAC	be present, unless distr	urbed or problematic.
2				Hydrophytic	
% Bare Ground in Herb Stratum 50	50	= Total	Cover	Vegetation Ye	s No <u>√</u>
Remarks:					
T. C.					

Depth	cription: (Describe Matrix	•		x Feature	s			
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-8	10 YR 4/2	75					Sandy clay	
	10 YR 5/3	25						
	10 /// 0/0							
	Concentration, D=De					d Sand G		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to all LRF						oblematic Hydric Soils <sup>3</sup> :
Histoso				Gleyed Ma			1 cm Muck (A	
	pipedon (A2)			Redox (S5				Redox (A16) (LRR F, G, H)
	listic (A3)			d Matrix (S	,			(S7) (LRR G)
	en Sulfide (A4)	· 5\		Mucky Min				epressions (F16) utside of MLRA 72 & 73)
_	d Layers (A5) (LRR			Gleyed Matrix (			Reduced Ver	,
_	uck (A9) ( <b>LRR F, G</b> d Below Dark Surfa			Dark Surfa			Red Parent M	` '
	ark Surface (A12)	(A11)		ed Dark Su	, ,	)		Dark Surface (TF12)
_	Mucky Mineral (S1)			Depressio		'		n in Remarks)
	Mucky Peat or Peat	(S2) (LRR G, H		ains Depr	. ,	16)		rophytic vegetation and
_	ucky Peat or Peat (		. — -	RA 72 &	-		-	plogy must be present,
							unless disturb	oed or problematic.
	Layer (if present):							
Type: Co	obble/Clay Pan		_					
Depth (in	iches): Eight		_				Hydric Soil Prese	nt? Yes No ✓
Remarks:					-			
				_				
IYDROLO	GY							
	drology Indicators							
Primary Indi	cators (minimum of	one required; cl	neck all that app	ly)			Secondary Indi	cators (minimum of two required)
Surface	Water (A1)		Salt Crus	(B11)			Surface So	oil Cracks (B6)
High Wa	ater Table (A2)		Aquatic Ir	vertebrate	es (B13)		Sparsely V	egetated Concave Surface (B8)
Saturati	ion (A3)		Hydroger	Sulfide O	dor (C1)		Drainage F	Patterns (B10)
Water N	Marks (B1)		Dry-Seas	on Water	Table (C2)	)	Oxidized R	Rhizospheres on Living Roots (C3
Sedime	nt Deposits (B2)		Oxidized	Rhizosphe	res on Liv	ing Roots	(C3) (where t	illed)
Drift De	posits (B3)		(where	not tilled	)		Crayfish B	urrows (C8)
	at or Crust (B4)		Presence	of Reduce	ed Iron (C	4)	Saturation	Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muc	k Surface	(C7)		Geomorph	ic Position (D2)
	ion Visible on Aeria	I Imagery (B7)	Other (Ex	plain in Re	emarks)		FAC-Neutr	al Test (D5)
	Stained Leaves (B9)						Frost-Heav	ve Hummocks (D7) (LRR F)
Water-S								
	rvations:		✓ Depth (it	nches):				
Field Obser		Yes No				- 1		
Field Obser Surface Wa	ter Present?			nches):				
Field Obser Surface Wat Water Table	ter Present? Present?	Yes No	✓ Depth (in				land Hydrology Pres	ent? Yes No.√
Field Obser Surface Wat Water Table Saturation P (includes ca	ter Present? Present? Present? pillary fringe)	Yes No	✓ Depth (in	nches):		Wet	land Hydrology Pres	ent? Yes No ✓
Field Obser Surface Wat Water Table Saturation P (includes ca	ter Present? Present?	Yes No	✓ Depth (in	nches):		Wet		ent? Yes No <u>√</u>
Field Obser Surface Wat Water Table Saturation P (includes ca	ter Present? Present? Present? pillary fringe)	Yes No	✓ Depth (in	nches):		Wet		ent? Yes No ✓
Field Obser Surface Wat Water Table Saturation P (includes ca	ter Present? Present? Present? pillary fringe)	Yes No	✓ Depth (in	nches):		Wet		ent? Yes No <u>√</u>
Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	ter Present? Present? Present? pillary fringe)	Yes No	✓ Depth (in	nches):		Wet		ent? Yes No <u>√</u>
Field Obser Surface Wat Water Table Saturation P (includes ca Describe Re	ter Present? Present? Present? pillary fringe)	Yes No	✓ Depth (in	nches):		Wet		ent? Yes No <u>√</u>

Project/Site: 130 Environmental Park		City/Cour	<sub>nty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/19/2	2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T6-DP6	
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Hillslope		Local rel	lief (concave,	convex, none); None	Slope (%): 4	2 <b>-</b> 4
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name:						
Are climatic / hydrologic conditions on the site typical for thi			_			
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No	
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe		_
SUMMARY OF FINDINGS – Attach site map					•	, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo		the Consoled	1.4		
Hydric Soil Present? Yes N			the Sampled		No <u>√</u>	
Wetland Hydrology Present? Yes ✓ N	lo	***	Tillin a Wellar	165		
Remarks:						
Riparian terrace area. Hydrology indicative of high t	flow inunda	ation onl	y during floo	ding from intermittent	stream.	
VEGETATION – Use scientific names of plan	ıts.					
	Absolute	Domina	ant Indicator	Dominance Test worl	ksheet:	
Tree Stratum (Plot size: 30'	% Cover	Species	s? Status	Number of Dominant S		
1. Ulmus crassifolia	60	Yes	FAC	That Are OBL, FACW,	7	(4)
2				(excluding FAC-):		(A)
3				Total Number of Domin Species Across All Stra	•	(B)
4	60	- T-1-1 C		Species Across Air Str.	ala. <u>–</u> (	(D)
Sapling/Shrub Stratum (Plot size: 15'		= Total C	Jover	Percent of Dominant S That Are OBL, FACW,		(A/R)
1. Ulmus crassifolia	95	Yes	FAC			,ריט)
2. Celtis laevigata	5	No	FAC	Prevalence Index wo		
3. Quercus virginiana	10	No	FACU		Multiply by:	
4				1	x 1 = x 2 =	
5				l .	x3 =	
Herb Stratum (Plot size: 5'	110	= Total C	Cover	1	x 4 =	
1.				UPL species		
2.					(A)	(B)
3				Donata and the	. D/A	
4				Hydrophytic Vegetati	x = B/A =	
5					Hydrophytic Vegetation	
6				✓ 2 - Dominance Te		
7				3 - Prevalence Ind		
8				4 - Morphological	Adaptations <sup>1</sup> (Provide suppo	orting
9					s or on a separate sheet)	Ū
10		= Total C	Cover	Problematic Hydro	pphytic Vegetation¹ (Explain)	)
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric so be present, unless dist	il and wetland hydrology mu urbed or problematic.	ıst
2.				Hydrophytic		
% Bare Ground in Herb Stratum 90		= Total C	Cover	Vegetation	es_ <b>✓</b> No	
Remarks:						$\neg$
All FAC vegetation. Does not exhibit hydrophytic chinundated areas.	naracteristi	cs or mo	orphological	adaptations typically o	bserved in regularly	

		e to the dep				or confi	rm the absence of in	naicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	lox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 3/1	95	10 YR 6/1	5	D	М	Clay	
					-			
				_				
1			Data and Making A				Ouring 21	DI - Dave Linia e Mandalia
	Concentration, D=De Indicators: (Appli					ed Sand		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
		cable to an		Gleyed M				(A9) (LRR I, J)
Histoso	pipedon (A2)			Redox (S				rie Redox (A16) (LRR F, G, H)
	Histic (A3)			ed Matrix (	•			ce (S7) (LRR G)
	en Sulfide (A4)			y Mucky Mi	•	ı	High Plains	Depressions (F16)
	ed Layers (A5) (LRR	(F)		Gleyed M			•	outside of MLRA 72 & 73)
_	luck (A9) (LRR F, G	-		ted Matrix	. ,		Reduced V	
	ed Below Dark Surfa	ce (A11)		Dark Surf	. ,		_	t Material (TF2)
_	Park Surface (A12)			ted Dark S Depressio		)		ow Dark Surface (TF12) lain in Remarks)
	Mucky Mineral (S1) Mucky Peat or Peat	(S2) (I RR		Plains Depr		=16)	_ ` '	ydrophytic vegetation and
_	lucky Peat or Peat (		, ,	ILRA 72 &	,	,		drology must be present,
	(	, , ,	,			•	-	urbed or problematic.
Restrictive	Layer (if present):							
Type:								,
Depth (ir	nches):						Hydric Soil Pre	sent? Yes No ✓
Remarks:								
HYDROLO	OGY							
Wetland Hy	ydrology Indicators	s:						
Primary Ind	icators (minimum of	one require	d; check all that ap	ply)			Secondary In	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crus	st (B11)			Surface	Soil Cracks (B6)
	ater Table (A2)		Aquatic	Invertebrat	es (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturat			Hydroge	n Sulfide C	dor (C1)		✓ Drainage	e Patterns (B10)
Water I	Marks (B1)		Dry-Sea	son Water	Table (C2	2)	Oxidized	Rhizospheres on Living Roots (C3)
Sedime	ent Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Root	ts (C3) (where	e tilled)
✓ Drift De	eposits (B3)		(where	not tilled	)		Crayfish	Burrows (C8)
Algal M	lat or Crust (B4)		Presenc	e of Reduc	ed Iron (C	(4)	_	on Visible on Aerial Imagery (C9)
	posits (B5)		_	ck Surface				phic Position (D2)
	tion Visible on Aeria		7) Other (E	xplain in R	emarks)			utral Test (D5)
Water-	Stained Leaves (B9)	)					Frost-He	eave Hummocks (D7) (LRR F)
Field Obse	rvations:							
Surface Wa			No V Depth (					
Water Table			No Depth (					
Saturation F	apillary fringe)		No Depth (					esent? Yes ✓ No
Describe Re	ecorded Data (strea	m gauge, m	onitoring well, aeria	al photos, p	revious ir	spections	s), if available:	
Remarks:								
	its appear to be fr	om recent	high flow from a	diacent in	termitten	t stream	. Not indicative of	regular seasonal inundation.
30,000			J					

Project/Site: 130 Environmental Park		City/Co	ounty: Lockh	art/Caldwell	Sampling Date: <u>06/19/2013</u>
Applicant/Owner: 130 Environmental Park, L					_ Sampling Point: T6-DP7
Investigator(s): Troegle, Josh & Littleton, Bra					
•					Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loar				NWI classif	
Are climatic / hydrologic conditions on the site typica					
Are Vegetation, Soil, or Hydrology _					" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology _				needed, explain any answ	
SUMMARY OF FINDINGS – Attach site					•
Hydrophytic Vegetation Present? Yes	No <u></u> ✓				
	No <u>✓</u>		Is the Sample		A1/
Wetland Hydrology Present? Yes	No <u></u> ✓		within a Wetla	and? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of	f nlante				
VEGETATION - Use scientific fiames of	Absolute	Dom	inant Indicator	Dominance Test wo	rkshoot:
Tree Stratum (Plot size: 30'			ies? Status	- Number of Dominant	
1. Ulmus crassifolia	85	Yes	FAC	That Are OBL, FACW	/, or FAC
2. Prosopis glandulosa	15	No	FACU_	(excluding FAC-):	<u>2</u> (A)
3				_ Total Number of Dom	
4	100			Species Across All St	rata: 6 (B)
Sapling/Shrub Stratum (Plot size: 15'	100	= Tota	al Cover	Percent of Dominant	
1. Diospyros texana		Yes	NI	That Are OBL, FACW	/, or FAC: 33 (A/B)
2. Ulmus crassifolia	5	No	FAC	Prevalence Index wo	orksheet:
3. Mahonia trifoliolata	10	Yes	NI		: Multiply by:
4					x 1 =
5				_	x 2 =
	35	= Tota	al Cover		x 3 = x 4 =
Herb Stratum (Plot size: 5' )	25	Yes	FAC		x 4 = x 5 =
2. Teucrium canadense	. 5	No	FACW	- 1	(A) (B)
3 Eupatorium incarnatum	35	Yes	NI		(r) (b)
Nassella leucotricha	20	Yes	NI		ex = B/A =
5.				Hydrophytic Vegeta	
6					r Hydrophytic Vegetation
7				2 - Dominance To	
8				3 - Prevalence In	
9				4 - Morphological data in Remai	I Adaptations <sup>1</sup> (Provide supporting rks or on a separate sheet)
10					rophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	_) 85	= Tota	al Cover	<sup>1</sup> Indicators of hydric s	coil and wetland hydrology must sturbed or problematic.
1		· —		•	nurved or problematic.
2				_ Hydrophytic Vegetation	
% Bare Ground in Herb Stratum		= Tota	al Cover		′es No <u>√</u>
Remarks:					

Depth Matrix		Redox	Features			the absence	
(inches) Color (moist)		olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4 10 YR 5/2	100					Sandy clay	70% cobble profile
<sup>1</sup> Type: C=Concentration, D=D	epletion, RM=Redu	iced Matrix, CS	=Covered	or Coated	Sand G	rains. <sup>2</sup> Loc	cation: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (App							for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy G	leyed Mat	trix (S4)		1 cm N	Muck (A9) (LRR I, J)
Histic Epipedon (A2)		Sandy R	edox (S5)			Coast	Prairie Redox (A16) (LRR F, G, H)
Black Histic (A3)		Stripped	Matrix (S	6)		Dark S	Surface (S7) (LRR G)
Hydrogen Sulfide (A4)			łucky Min			High F	lains Depressions (F16)
Stratified Layers (A5) (LRI	RF)		Sleyed Ma				R H outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, C			d Matrix (F	,			ed Vertic (F18)
Depleted Below Dark Surf	ace (A11)		ark Surfa			_	arent Material (TF2)
Thick Dark Surface (A12)			d Dark Sur	, ,			shallow Dark Surface (TF12) (Explain in Remarks)
<ul><li>Sandy Mucky Mineral (S1)</li><li>2.5 cm Mucky Peat or Pea</li></ul>			epression	s (Fo) ssions (F1	6)		of hydrophytic vegetation and
5 cm Mucky Peat or Peat				3 of LRR			d hydrology must be present,
3 cm wacky rear or rear	(00) (ERRY)	(***-1		O OI EITH	,		disturbed or problematic.
Restrictive Layer (if present)	:						
Type: Cobble / Clay Pan							
Denth (inches). Four						Hydric Soil	Present? Yes No √
Depth (inches): Four						Hydric Soil	Present? Yes No _
Depth (inches): Four Remarks:						Hydric Soil	Present? Yes No ✓
						Hydric Soil	Present? Yes No ✓
						Hydric Soil	Present? Yes No √
Remarks:						Hydric Soil	Present? Yes No √
Remarks:	rs:					Hydric Soil	Present? Yes No √
Remarks:  IYDROLOGY  Wetland Hydrology Indicator		ck all that apply	0				
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o						Seconda	ary Indicators (minimum of two required
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)		Salt Crust	(B11)	s (B13)		Seconda Suri	ary Indicators (minimum of two required face Soil Cracks (B6)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)		Salt Crust Aquatic Inv	(B11) /ertebrates	` '		Seconds Surl Spa	ary Indicators (minimum of two required face Soil Cracks (B6) rsely Vegetated Concave Surface (B8)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)		Salt Crust Aquatic Inv Hydrogen	(B11) vertebrates Sulfide Od	lor (C1)		Seconda Suri Spa Dra	ary Indicators (minimum of two required face Soil Cracks (B6) irsely Vegetated Concave Surface (B8) inage Patterns (B10)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)		Salt Crust Aquatic Inv Hydrogen 3 Dry-Seaso	(B11) vertebrates Sulfide Od n Water T	lor (C1) able (C2)	ng Roots	Seconda Suri Spa Dra Oxio	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)		Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R	(B11) vertebrates Sulfide Od n Water T thizospher	lor (C1) able (C2)	ng Roots	Seconda  Suri  Spa  Dra  Oxide  (C3)	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C where tilled)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrates Sulfide Od n Water T thizospher not tilled)	dor (C1) able (C2) res on Livir		Seconda  Suri  Spa  Dra  Oxid  (C3) (W	ary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Contract tilled) yfish Burrows (C8)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrates Sulfide Od n Water T thizospher not tilled) of Reduce	dor (C1) able (C2) res on Livir d Iron (C4)		Seconda  Suri  Spa  Dra  Oxio  (C3) (M  Cra  Satu	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) undized Rhizospheres on Living Roots (Culture tilled) undized Visible on Aerial Imagery (C9)
Remarks:  HYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content of	of one required; che	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck	(B11) vertebrates Sulfide Od n Water T thizospher not tilled) of Reduce Surface (6	dor (C1) able (C2) res on Livir d Iron (C4)		Seconda  Suri  Spa  Dra  Oxic  (C3) (w  Cra  Satu  Geo	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Continuous of the tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2)
Remarks:  HYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aeria	of one required; che	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrates Sulfide Od n Water T thizospher not tilled) of Reduce Surface (6	dor (C1) able (C2) res on Livir d Iron (C4)		Seconds   Suri   Spa   Dra   Oxio   (V)   Cra   Sati   Gec   FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Contere tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2) C-Neutral Test (D5)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content of	of one required; che	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck	(B11) vertebrates Sulfide Od n Water T thizospher not tilled) of Reduce Surface (6	dor (C1) able (C2) res on Livir d Iron (C4)		Seconds   Suri   Spa   Dra   Oxio   (V)   Cra   Sati   Gec   FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Continuous of the tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Water-Stained Leaves (B5) Field Observations:	al Imagery (B7)	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduce Surface (G	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	)	Seconds   Suri   Spa   Dra   Oxio   (V)   Cra   Sati   Gec   FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Contere tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2) C-Neutral Test (D5)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aeria	al Imagery (B7)  Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduce Surface (Glain in Reduce)	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	_	Seconds   Suri   Spa   Dra   Oxio   (V)   Cra   Sati   Gec   FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Contere tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2) C-Neutral Test (D5)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeria Water-Stained Leaves (B5) Field Observations:	al Imagery (B7)	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduce Surface (Glain in Reduce)	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	_	Seconds   Suri   Spa   Dra   Oxio   (V)   Cra   Sati   Gec   FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Contere tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2) C-Neutral Test (D5)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the content of t	al Imagery (B7)  Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface (Galain in Reduces):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) 	Seconda  Suri Spa Dra Oxio (C3) (w Cra Satu Gec FAC	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) unage Patterns (B10) dized Rhizospheres on Living Roots (Contere tilled) under tilled) uration Visible on Aerial Imagery (C9) unorphic Position (D2) C-Neutral Test (D5)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the content of t	al Imagery (B7)  Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp  Depth (inc	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface ( clain in Rec ches): ches):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) _ _ _ Wet	Seconda  Suri Spa Dra Oxio (C3) (w Casa Satu FAC FFOS	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Context tilled) urfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator  Primary Indicators (minimum of the content of	al Imagery (B7)  Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp  Depth (inc	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface ( clain in Rec ches): ches):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) _ _ _ Wet	Seconda  Suri Spa Dra Oxio (C3) (w Casa Satu FAC FFOS	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Context tilled) urfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of the content of t	al Imagery (B7)  Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp  Depth (inc	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface ( clain in Rec ches): ches):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) _ _ _ Wet	Seconda  Suri Spa Dra Oxio (C3) (w Casa Satu FAC FFOS	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Context tilled) urfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Wetland Hydrology Indicator Primary Indicators (minimum o  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aeria  Water-Stained Leaves (B5)  Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (streat	al Imagery (B7)  Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp  Depth (inc	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface ( clain in Rec ches): ches):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) _ _ _ Wet	Seconda  Suri Spa Dra Oxio (C3) (w Casa Satu FAC FFOS	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Context tilled) urfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Remarks:  IYDROLOGY  Wetland Hydrology Indicator Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aeric Water-Stained Leaves (B5) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	al Imagery (B7)  Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp  Depth (inc	(B11) vertebrates Sulfide Od n Water T chizospher not tilled) of Reduces Surface ( clain in Rec ches): ches):	dor (C1) able (C2) res on Livir d Iron (C4) C7) marks)	) _ _ _ Wet	Seconda  Suri Spa Dra Oxio (C3) (w Casa Satu FAC FFOS	ary Indicators (minimum of two required face Soil Cracks (B6) ursely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (Context tilled) urfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)



Data Point 1 Mesquite Grassland Mosaic



Data Point 1 Mesquite Grassland Mosaic



Data Point 2 Sumpweed Depressions

T6 – Page 1



Data Point 2 Sumpweed Depressions



Data Point 3 Mesquite Woods



Data Point 3 Mesquite Woods

T6 - Page 2



Data Point 4
Forested Wetlands



Data Point 4
Forested Wetlands



Data Point 5 Post Oak Woods

T6 – Page 3



Data Point 5
Post Oak Woods



Data Point 6 Riparian Woods (Cedar Elm/Oak)



Data Point 7 Cedar Elm Woods

T6 - Page 4



Data Point 7
Cedar Elm Woods

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Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/27/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T7-DP1
Landform (hillslope, terrace, etc.): Toe of hillslope			-		Slope (%); 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flood					eation: None available
Are climatic / hydrologic conditions on the site typical for this					
Are Vegetation, Soil, or Hydrologys					oresent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe	<del> </del>
SUMMARY OF FINDINGS – Attach site map					·
Hydrophytic Vegetation Present? Yes ✓ N	ln				
Hydric Soil Present? Yes N	lo <u>√</u>	I	e Sampled		No
Wetland Hydrology Present? Yes N	lo <u> </u>	With	in a Wetlar	ndr fes <u>v</u>	NO
Remarks:					
Live oak woodland area, adjacent to stream channe	I. Data po	int is locat	ed in west	ern part of northern ha	If of property.
VEGETATION – Use scientific names of plan	ite				
VEGETATION OSC SCIENTING NUMBER OF PIGN	Absolute	Dominant	Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30'		Species?		Number of Dominant S	
1. Quercus fusiformis	80	Yes	UPL	That Are OBL, FACW,	or FAC
2. Celtis laevigata	8	No	FAC	(excluding FAC-):	<u>2</u> (A)
3				Total Number of Domin	
4				Species Across All Stra	ita: <u>3</u> (B)
Sapling/Shrub Stratum (Plot size: 15')	88	= Total Co	ver	Percent of Dominant S That Are OBL, FACW,	
1. Celtis laevigata	15	No	FAC		(12)
2. Ulmus crassifolia	75	Yes	FAC	Prevalence Index wor	
3. Quercus fusiformis	10	No	UPL		Multiply by:
4. Ilex decidua		No	FAC	· —	x 1 =
5					x 2 = x 3 =
Herb Stratum (Plot size: 5'	110	= Total Co	ver		x 4 =
1.				UPL species	
2.					(A) (B)
3				D	D/4
4				Hydrophytic Vegetation	= B/A =
5				1 - Rapid Test for h	
6				✓ 2 - Dominance Tes	
7				3 - Prevalence Inde	
8.				4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting
9				data in Remark	s or on a separate sheet)
10		= Total Co		Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		- Total CO	, 01		l and wetland hydrology must
1. Toxicodendron radicans	_ 5	No	FACU	be present, unless distr	urbed or problematic.
2. Smilax rotundifolia	70	Yes	FAC	Hydrophytic	
% Bare Ground in Herb Stratum 85	75	= Total Co	ver	Vegetation Present? Ye	sNo
Remarks:					
Hydrophytic vegetation criterion is met.					

Depth						n the absence	
_(inches)	Color (moist)		Color (moist)	Features % Typ	e <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-5	10 YR 2/1	100				Clay	
5-16	10 YR 2/1	60				Clay	
5-16	10 YR 6/1	40				Silt	Silty texture
5-10	10 11 0/1	_ 40				SIII	Silty texture
							The state of the s
	oncentration, D=Der				oated Sand G		cation: PL=Pore Lining, M=Matrix.
	Indicators: (Applic	cable to all LKK					for Problematic Hydric Soils <sup>3</sup> :
Histosol				eyed Matrix (S	64)		Muck (A9) (LRR I, J)
	pipedon (A2)		Sandy Re	edox (S5) Matrix (S6)			Prairie Redox (A16) (LRR F, G, H)
	istic (A3)			viatrix (So) ucky Mineral (	E1\		Surface (S7) ( <b>LRR G</b> ) Plains Depressions (F16)
	en Sulfide (A4)	E\		leyed Matrix (F	-		RR H outside of MLRA 72 & 73)
	d Layers (A5) ( <b>LRR</b> l uck (A9) ( <b>LRR F, G,</b>	*		Matrix (F3)	2)		ed Vertic (F18)
_	d Below Dark Surfac	-		ark Surface (Fe	6)	_	arent Material (TF2)
	ark Surface (A12)			Dark Surface	•	_	Shallow Dark Surface (TF12)
	Aucky Mineral (S1)			epressions (F8	, ,		(Explain in Remarks)
	Mucky Peat or Peat	(S2) ( <b>LRR G, H</b> )		ns Depression	•	_	of hydrophytic vegetation and
	icky Peat or Peat (S			A 72 & 73 of I	LRR H)	wetlan	d hydrology must be present,
						unless	disturbed or problematic.
Restrictive I	Layer (if present):						
Type:						-	
Depth (inc	ches):					Hydric Soil	Present? Yes No ✓
Remarks:							
No hydric so	oil indicators obse	rved.					
,							
Wetland Hyd	drology Indicators:		and all that applied			Connection	
Wetland Hyd Primary Indic	drology Indicators: cators (minimum of c						ary Indicators (minimum of two requi
Wetland Hyd Primary Indic Surface	drology Indicators: cators (minimum of o Water (A1)		Salt Crust (E	311)		Sur	face Soil Cracks (B6)
Wetland Hyd Primary Indic Surface High Wa	drology Indicators: cators (minimum of o Water (A1) ater Table (A2)		Salt Crust (E	B11) ertebrates (B13		Sur	face Soil Cracks (B6) rsely Vegetated Concave Surface (I
Primary India Surface High Wa Saturatio	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3)		Salt Crust (E Aquatic Inve Hydrogen S	B11) ertebrates (B13 ulfide Odor (C	1)	Suri	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10)
Primary Indic  Surface  High Wa  Saturatio  Water M	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1)		Salt Crust (E Aquatic Inve Hydrogen S Dry-Season	B11) ertebrates (B13 ulfide Odor (C Water Table (	1) (C2)	Suri	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots
Primary Indic Surface High Wa Saturatio Water M Sedimen	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh	311) ertebrates (B13 ulfide Odor (C Water Table ( izospheres on	1)	Suri Spa Oxio Oxio (C3) (w	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled)
Primary Indice Surface High Wa Saturation Water M Sedimer Drift Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no	B11) ertebrates (B13 ulfide Odor (C Water Table ( izospheres on ot tilled)	1) (C2) Living Roots	Suri Spa Drai Oxio (C3) (w Cra	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8)
Primary Indice Surface High Wa Saturation Water M Sedimer Drift Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2)		Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no	B11) ertebrates (B13 ulfide Odor (C Water Table ( izospheres on ot tilled) Reduced Iron	1) (C2) Living Roots	Suri Spa Drai Oxid (C3) Cra Sati	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Primary Indice Surface High Wa Saturatice Water M Sedimen Drift Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)		Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no	B11) ertebrates (B13 ulfide Odor (C Water Table ( izospheres on ot tilled) Reduced Iron	1) (C2) Living Roots	Suri Spa Drai Oxid (C3) (w Crai Satu  Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 omorphic Position (D2)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4)	: one required; ch	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S	B11) ertebrates (B13 ulfide Odor (C Water Table ( izospheres on ot tilled) Reduced Iron	1) (C2) Living Roots (C4)	Suri Spa Drai Oxid (C3) (w Crai Satu  Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8)
Primary Indice Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of of Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	: one required; ch	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S	B11) ertebrates (B13 ulfide Odor (C Water Table ( elizospheres on ot tilled) Reduced Iron Surface (C7)	1) (C2) Living Roots (C4)	Suri Spa Drai Oxid (C3) (w Crai Satu Gec FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 omorphic Position (D2)
Primary Indice Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9)	: one required; ch	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S	B11) ertebrates (B13 ulfide Odor (C Water Table ( elizospheres on ot tilled) Reduced Iron Surface (C7)	1) (C2) Living Roots (C4)	Suri Spa Drai Oxid (C3) (w Crai Satu Gec FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) morphic Position (D2) C-Neutral Test (D5)
Primary Indice Surface High Wa Saturatio Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-Si	drology Indicators: cators (minimum of o Water (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations:	ene required; che	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S	ertebrates (B13 ulfide Odor (C Water Table ( izospheres on ot tilled) Reduced Iron Surface (C7) ain in Remarks	1) (C2) I Living Roots (C4)	Suri Spa Drai Oxid (C3) (w Crai Satu Gec FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) morphic Position (D2) C-Neutral Test (D5)
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si	drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present?	Imagery (B7)	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13 ulfide Odor (C Water Table ( izospheres on of tilled) Reduced Iron Surface (C7) ain in Remarks	1) (C2) I Living Roots (C4)	Suri Spa Drai Oxid (C3) (w Crai Satu Gec FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) morphic Position (D2) C-Neutral Test (D5)
Primary Indice Surface High Wa Saturatice Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatice Water-Si Field Observ Surface Water Surface Water Saturation Pr	drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Y resent?	Imagery (B7)	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13 ulfide Odor (C Water Table ( izospheres on titiled) Reduced Iron Surface (C7) ain in Remarks  nes):	1) (C2) I Living Roots (C4)	Suri Spa Drai Oxio (C3) (w Crai Satu Gec FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) morphic Position (D2) C-Neutral Test (D5)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si Field Observ Surface Water Saturation Pr (includes cap	drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y	Imagery (B7)  (es No (es No (es No	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	and an arrangement of the service of	1) (C2) i Living Roots (C4) s) Wetl	Suri Spa Spa Drai Oxio (C3) (w Satu ✓ Geo FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 morphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si Field Observ Surface Water Saturation Pr (includes cap	drology Indicators: cators (minimum of of of water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Y resent?	Imagery (B7)  (es No (es No (es No	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	and an arrangement of the service of	1) (C2) i Living Roots (C4) s) Wetl	Suri Spa Spa Drai Oxio (C3) (w Satu ✓ Geo FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 morphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Table Saturation Pr (includes cap	drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y	Imagery (B7)  (es No (es No (es No	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	and an arrangement of the service of	1) (C2) i Living Roots (C4) s) Wetl	Suri Spa Spa Drai Oxio (C3) (w Satu ✓ Geo FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 morphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-St Field Observ Surface Water Vater Table Saturation Pr (includes cap Describe Rec	drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y resent? Y resent? Y resent? Corded Data (stream	Imagery (B7)  (es No (es No (es No n gauge, monitor	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	and the state of t	1) (C2) I Living Roots (C4) S) Wetl	Suri Spa Spa Drai Oxio (C3) (w Cra Satu ✓ Geo FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C8) morphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)
Wetland Hyd Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-Si Field Observ Surface Water Surface Water Table Saturation Pr (includes cap Describe Rec	drology Indicators: cators (minimum of of of other (A1) ater Table (A2) on (A3) larks (B1) on Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial tained Leaves (B9) vations: er Present? Present? Y resent? Y resent? Y resent? Y resent? Y resent? Corded Data (stream	Imagery (B7)  (es No (es No (es No n gauge, monitor	Salt Crust (E Aquatic Inve Hydrogen S Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	and the state of t	1) (C2) I Living Roots (C4) S) Wetl	Suri Spa Spa Drai Oxid (C3) (w Cra Satt ✓ Gec FAC Frost	face Soil Cracks (B6) rsely Vegetated Concave Surface (I inage Patterns (B10) dized Rhizospheres on Living Roots /here tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9 morphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)



Data Point 1
Riparian Woods (Cedar Elm/Oak

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Project/Site: 130 Environmental Park		City/Count	y: Lockha	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T8-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Hillslope		Local relie	of (concave,	convex, none); None	Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					cation: None
Are climatic / hydrologic conditions on the site typical for th	is time of ye	ar? Yes_ <b>v</b>	,		
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					
Hydrophytic Vegetation Present? Yes	Vo ✓				
Hydric Soil Present? Yes		}	he Sampled		
Wetland Hydrology Present? Yes	Vo <u>√</u>	with	hin a Wetlaı	nd? Yes	No <u>✓</u>
Remarks:					
VEGETATION – Use scientific names of plan	nts.				
	Absolute	Dominan	t Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30'	% Cover	Species?	Status	Number of Dominant S	
1. Quercus stellata	60	Yes	FACU	That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>1</u> (A)
3				Total Number of Domir	
4				Species Across All Stra	ata: <u>6</u> (B)
151	60	= Total Co	over	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15'	20	Van	EAC	That Are OBL, FACW,	or FAC: <u>16</u> (A/B)
1. Ulmus crassifolia Mahania trifolialata	30	Yes Yes	FAC NI	Prevalence Index wor	ksheet:
2. Mahonia trifoliolata		1 es	- INI	Total_% Cover of:	
3					x 1 =
4					x 2 =
5		= Total Co			x 3 =
Herb Stratum (Plot size: 5'		- Total Co	VEI	FACU species	x 4 =
1. Dichanthelium linearifolium	25	Yes	NI	UPL species	x 5 =
2. Eragrostis hirsuta	25	Yes	FACU		(A) (B)
3. Carex planostachys	15	Yes	NI	Dravalar es la dev	- D/A -
4				Hydrophytic Vegetati	= B/A =
5					
6		-		2 - Dominance Tes	Hydrophytic Vegetation
7				3 - Prevalence Ind	
8					Adaptations <sup>1</sup> (Provide supporting
9				data in Remark	s or on a separate sheet)
10				Problematic Hydro	phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30')	65	= Total Co	over	1 Indicators of bydric so	il and wetland hydrology must
1.				be present, unless dist	
2.				Hydrophytic	
		= Total Co	ver	Vegetation	
% Bare Ground in Herb Stratum 80		10141 00		Present? Ye	s No <u>√</u>
Remarks:				4	

						or confirm	the absence of i	ndicators.)
Depth .	Matrix			ox Feature	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(inches)	Color (moist)		Color (moist)	%		_LOC		Remarks
							-	-
			-					
*******				_				
							2	
		epletion, RM=Red				d Sand Gr		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
		licable to all LRR						· ·
Histosol (				Gleyed Ma	. ,			( (A9) ( <b>LRR I, J</b> ) rie Redox (A16) ( <b>LRR F, G, H</b> )
Black His	pedon (A2)			Redox (St ed Matrix (S				ice (S7) (LRR G)
_	Sulfide (A4)			Mucky Mi	,			s Depressions (F16)
	Layers (A5) ( <b>LR</b> I	RF)		Gleyed M				outside of MLRA 72 & 73)
	ck (A9) (LRR F, C			ed Matrix (			•	/ertic (F18)
_	Below Dark Surf			Dark Surfa	,			nt Material (TF2)
ı — ·	k Surface (A12)	,	-	ed Dark Su		)		ow Dark Surface (TF12)
	ucky Mineral (\$1			Depression	, ,			olain in Remarks)
		at (S2) (LRR G, H)						ydrophytic vegetation and
5 cm Muc	ky Peat or Peat	(S3) ( <b>LRR F</b> )	(M	LRA 72 &	73 of LRR	( <b>H</b> )		drology must be present,
							unless dist	turbed or problematic.
1	ayer (if present)							
Туре:								
Depth (inch	hes):						Hydric Soil Pre	sent? Yes No
Remarks:								
HYDROLOG	GY.							
	rology Indicator	·s:						
		f one required; ch	eck all that apr	olv)			Secondary I	ndicators (minimum of two required)
		Tone required, on	Salt Crus					Soil Cracks (B6)
_	Vater (A1)			nvertebrate	e (B13)		_	y Vegetated Concave Surface (B8)
	er Table (A2)		Hydroger					e Patterns (B10)
Saturation				on Water				d Rhizospheres on Living Roots (C3)
Water Ma	Deposits (B2)					ing Roots	_	re tilled)
			_	not tilled		ing reods	. ,	Burrows (C8)
Drift Depo	, ,			of Reduc		1)		on Visible on Aerial Imagery (C9)
	or Crust (B4)		Thin Muc			7)		rphic Position (D2)
Iron Depo		al Imagen/ /D7\	Other (Ex				_	eutral Test (D5)
	n Visible on Aeria		Other (E)	Apiaiii iii Ri	onants)			eave Hummocks (D7) (LRR F)
	ained Leaves (B9	")						eave Hullimocks (D1) (LRK F)
Field Observa		Voc.	/ Double !!	nohen):				
Surface Water		Yes No _						
Water Table P		Yes No _						
Saturation Pre		Yes No _	✓ Depth (i	nches):		_ Wetl	and Hydrology Pr	resent? Yes No ✓
(includes capi	nary mnge) orded Data (stre	am gauge, monito	ring well, aeria	I photos n	revious ins	pections)	if available:	
Describe New	o. dod Data (alle	gaago, monto		. дэ.оо, р	2000 1110	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Remarks:								

Project/Site: 130 Environmental Park		City/County	, Lockha	rt/Caldwell	Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T8-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): None			-	-	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 perce				NWI classifica	
Are climatic / hydrologic conditions on the site typical for thi			_		
Are Vegetation, Soil, or Hydrologys	-				resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eeded, explain any answer	
SUMMARY OF FINDINGS – Attach site map					
Hydrophytic Vegetation Present? Yes N	In <b>√</b>	140	_		
Hydric Soil Present? Yes N	lo 🗸		ne Sampled		N
Wetland Hydrology Present? Yes N	lo 🗸	with	nin a Wetlar	na? Yes	No <u> </u>
Remarks:					
V-0-1-10N II : (15					
VEGETATION – Use scientific names of plan					
Tree Stratum (Plot size: 30'	Absolute % Cover	Species?	l Indicator Status	Dominance Test works	
1. Ulmus crassifolia	80	Yes	FAC	Number of Dominant Sp That Are OBL, FACW, or	
2. Quercus virginiana	40	Yes	FACU	(excluding FAC-):	<u>4</u> (A)
3				Total Number of Domina	ant
4				Species Across All Strat	ta: <u>7</u> (B)
151	120	= Total Co	ver	Percent of Dominant Sp	ecies
Sapling/Shrub Stratum (Plot size: 15'	50	Yes	FAC	That Are OBL, FACW, o	or FAC: (A/B)
1. Ulmus crassifolia 2. Mahonia trifoliolata	20	Yes	NI	Prevalence Index work	sheet:
3. Diospyros texana	5	No	NI	Total % Cover of:	Multiply by:
					x 1 = <u>0</u>
5.				FACW species 0	
	80	= Total Co	ver		x 3 = 510
Herb Stratum (Plot size: 5'	2.5		7.0	FACU species 90	
1. Elymus virginicus	25	Yes	FAC	UPL species 30	x 5 = 150
2. Eupatorium incarnatum	50	No Yes	FACU	Column Totals: 290	(A) <u>1020</u> (B)
3. Lolium perenne			TACO	Prevalence Index	= B/A = 3.52
4			. ——	Hydrophytic Vegetatio	n Indicators:
5				1 - Rapid Test for H	ydrophytic Vegetation
7		¥		2 - Dominance Test	
8.				3 - Prevalence Inde	
9.					daptations¹ (Provide supporting or on a separate sheet)
10.					phytic Vegetation <sup>1</sup> (Explain)
201	80	= Total Co	ver		
Woody Vine Stratum (Plot size: 30' )  Smilax rotundifolia	15	Yes	FAC	'Indicators of hydric soil be present, unless distu	and wetland hydrology must
"		168	TAC		
2	15	= Total Co		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 75		- Total Co	.A.C.I		s No <u>√</u>
Remarks:					

Depth Matri (inches) Color (moist	iv	Redo	k Features			n the absence of inc	
		olor (moist)	<u> %</u>	Type <sup>1</sup>	Loc²	Texture	Remarks
0-2 10 YR 3/2	100					Sandy clay	
	Davidsking DM David	d Matrix CC				2l coation	DI -Dave Lining MaMetrix
Type: C=Concentration, D= Hydric Soil Indicators: (Ap					a Sand G		PL=Pore Lining, M=Matrix. roblematic Hydric Soils³:
•	plicable to all LKK						
Histosol (A1)			Sleyed Ma				A9) (LRR I, J)
Histic Epipedon (A2)			Redox (S5				Redox (A16) (LRR F, G, H)
Black Histic (A3)			Matrix (S				e (S7) ( <b>LRR G</b> ) Depressions (F16)
Hydrogen Sulfide (A4)	DD E)		Mucky Min Gleyed Ma				outside of MLRA 72 & 73)
Stratified Layers (A5) (LF 1 cm Muck (A9) (LRR F,	•		d Matrix (F			Reduced Ve	
Depleted Below Dark Su			a Matrix (r Dark Surfa	,		_	Material (TF2)
Thick Dark Surface (A12			d Dark Su	, ,		_	v Dark Surface (TF12)
Sandy Mucky Mineral (S	•		epression				in in Remarks)
2.5 cm Mucky Peat or Pe			ins Depre		16)		drophytic vegetation and
5 cm Mucky Peat or Pea			RA 72 & 7				ology must be present,
	. , , ,					unless distu	bed or problematic.
Restrictive Layer (if presen	t):						
Type: Dobble							
Depth (inches): Five						Hydric Soil Pres	ent? Yes No ✓
Remarks:							
Remarks.							
YDROLOGY							
	076						
Wetland Hydrology Indicate				0. 0.		Connection	
Wetland Hydrology Indicator				2			licators (minimum of two required
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Salt Crust	(B11)			Surface S	oil Cracks (B6)
Wetland Hydrology Indicator		Salt Crust	(B11) /ertebrate			Surface S Sparsely	oil Cracks (B6) Vegetated Concave Surface (B8)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1)		Salt Crust Aquatic Inv	(B11) vertebrate Sulfide Od	lor (C1)		Surface S Sparsely Drainage	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Wetland Hydrology Indicator Primary Indicators (minimum Surface Water (A1) High Water Table (A2)		Salt Crust	(B11) vertebrate Sulfide Od	lor (C1)		Surface S Sparsely Drainage	oil Cracks (B6) Vegetated Concave Surface (B8)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust Aquatic Inv	(B11) vertebrate Sulfide Od n Water T	lor (C1) able (C2)	ing Roots	Surface S Sparsely Drainage Oxidized	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)		Salt Crust Aquatic Inv Hydrogen = Dry-Seaso Oxidized F	(B11) vertebrate Sulfide Od n Water T	lor (C1) able (C2)	ing Roots	Surface S Sparsely Drainage Oxidized (C3) (where	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)		Salt Crust Aquatic Inv Hydrogen = Dry-Seaso Oxidized F	(B11) vertebrate Sulfide Oo n Water T Rhizosphe not tilled)	lor (C1) able (C2) res on Liv		Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C <b>tilled</b> )
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Salt Crust Aquatic Inv Hydrogen S Dry-Seaso Oxidized R (where r	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce	dor (C1) able (C2) res on Liv		Surface S Sparsely Drainage Oxidized (C3) (where Surface S Crayfish I Saturation	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Surrows (C8)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one required; che	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface (	dor (C1) rable (C2) res on Liv d Iron (C4		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	of one required; che	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface (	dor (C1) rable (C2) res on Liv d Iron (C4		Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I Saturation Geomorp FAC-Neu	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E	of one required; che	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface (	dor (C1) rable (C2) res on Liv d Iron (C4		Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I Saturation Geomorp FAC-Neu	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Ital Test (D5)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E	of one required; che rial Imagery (B7) 39)	Salt Crust Aquatic Inv Hydrogen i Dry-Seaso Oxidized R (where r Presence c Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re	dor (C1) fable (C2) res on Liv d Iron (C4 C7) marks)	.)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I Saturation Geomorp FAC-Neu	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Ital Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present?	rial Imagery (B7) 39) Yes No _•	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)	.)	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I Saturation Geomorp FAC-Neu	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Ital Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E Field Observations: Surface Water Present?	rial Imagery (B7) 39)  Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Oo n Water T Rhizosphe not tilled) of Reduce Surface ( olain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)	_	Surface S Sparsely Drainage Oxidized (C3) (where Crayfish I Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present?	rial Imagery (B7) 39) Yes No _•	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized F (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Oo n Water T Rhizosphe not tilled) of Reduce Surface ( olain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)	_	Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Ital Test (D5)
Wetland Hydrology Indicate Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present?	rial Imagery (B7) 39)  Yes No Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present?	rial Imagery (B7) 39)  Yes No Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (E Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (street	rial Imagery (B7) 39)  Yes No Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present? Saturation Present? Cincludes capillary fringe) Describe Recorded Data (street	rial Imagery (B7) 39)  Yes No Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)
Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Ae Water-Stained Leaves (EField Observations: Surface Water Present? Water Table Present? Saturation Present?	rial Imagery (B7) 39)  Yes No Yes No Yes No Yes No	Salt Crust Aquatic Inv Hydrogen Dry-Seaso Oxidized R (where r Presence of Thin Muck Other (Exp	(B11) vertebrate Sulfide Od n Water T Rhizosphe not tilled) of Reduce Surface ( blain in Re ches): ches):	dor (C1) able (C2) res on Liv d Iron (C4 C7) marks)		Surface S Sparsely Drainage Oxidized (C3) (where Saturation Geomorp FAC-Neu Frost-Hea	oil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) Inve Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		Citv/Co	ountv:	Lockhai	rt/Caldwell Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX Sampling Point: T8-DP3
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression					
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 perce					NWI classification: None
Are climatic / hydrologic conditions on the site typical for thi					
					"Normal Circumstances" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology s					
Are Vegetation, Soil, or Hydrology r					eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	point i	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N			Is the	Sampled	Area
Hydric Soil Present? Yes ✓ N			withir	n a Wetlar	nd? Yes No <u>√</u>
Wetland Hydrology Present? Yes ✓ N	lo				
Remarks:					
VEGETATION – Use scientific names of plan	ıts.				
30'	Absolute				Dominance Test worksheet:
Tree Stratum (Plot size: 30'				Status	Number of Dominant Species
1			—		That Are OBL, FACW, or FAC (excluding FAC-):
2					
3					Total Number of Dominant Species Across All Strata: (B)
7.		= Tota	al Cove	er	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15'					That Are OBL, FACW, or FAC: (A/B)
1. Prosopis glandulosa	40	Yes		FACU	Prevalence Index worksheet:
2					Total % Cover of: Multiply by:
3					OBL species 30 x 1 = 30
4			<u> </u>		FACW species 0 x 2 = 0
5	40	= Tota	ol Cove		FAC species 10 x 3 = 30
Herb Stratum (Plot size: 5'		_ 10ta	ai Cove	<b>3</b> 1	FACU species 30 x 4 = 120
1. Eleocharis palustris	30	Yes		OBL	UPL species 30 x 5 = 150
2. Eragrostis hirsuta	30	Yes		FACU	Column Totals: 100 (A) 330 (B)
3. Sporobolus compositus	10	No		UPL	Prevalence Index = B/A = 3.3
4. Iva annua	- 10	No		FAC	Hydrophytic Vegetation Indicators:
5. Solanum elaeagnifolium		Yes		NI	1 - Rapid Test for Hydrophytic Vegetation
6					2 - Dominance Test is >50%
7			—		3 - Prevalence Index is ≤3.0 <sup>1</sup>
8					4 - Morphological Adaptations <sup>1</sup> (Provide supporting
9					data in Remarks or on a separate sheet)
10	100	= Tota	al Cove	ar	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		_ 100	u. 0046		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1					be present, unless disturbed or problematic.
2					Hydrophytic
% Rose Cround in Horb Street 40		= Tota	al Cove	er	Vegetation Present?  Yes No ✓
% Bare Ground in Herb Stratum 40 Remarks:				****	
Spring/shrub on perimeter of depression, left out of	prevalence	e test.			

US Army Corps of Engineers Great Plains – Version 2.0

Profile Desc	cription: (Describ	e to the depth	needed to docu	ment the	indicator	or confir	m the absence of ind	icators.)
Depth	Matrix			ox Feature	s T	1 = 2	Tandon	Daniel de
(inches) 0-5	Color (moist) 10 YR 3/1		Color (moist) YR 5/8	<u>%</u> 20	Type <sup>1</sup>	Loc² PL	Texture Sandy clay	Remarks
0-5	10 11 3/1	_ 00 _ 5	113/0			- FL	Saridy clay	
								****
			-				<del></del>	
	oncentration, D=De					ed Sand G		PL=Pore Lining, M=Matrix.
1 -	Indicators: (Appli	icable to all Li						oblematic Hydric Soils <sup>3</sup> :
Histosol				Gleyed Ma			1 cm Muck (A	
· — ·	pipedon (A2) istic (A3)			Redox (Sa ed Matrix (S				Redox (A16) (LRR F, G, H) (S7) (LRR G)
_	en Sulfide (A4)			Mucky Mi			_	epressions (F16)
	d Layers (A5) (LRR	(F)		Gleyed M	, ,			utside of MLRA 72 & 73)
1 cm Mu	uck (A9) (LRR F, G	, H)		ed Matrix (			Reduced Ver	tic (F18)
· ·	d Below Dark Surfa	ice (A11)	✓ Redox				Red Parent N	
_	ark Surface (A12)			ed Dark Su	-	)		Dark Surface (TF12)
1 —	Mucky Mineral (S1) Mucky Peat or Peat	(S2) (I RR G		Depression Depression		=16)		n in Remarks) ophytic vegetation and
_	ucky Peat or Peat (			LRA 72 &	,	•		ophytic vegetation and logy must be present,
	(	, (,	,					ped or problematic.
	Layer (if present):							
Type: Cla	ay Pan		_					
Depth (in	ches): <u>Five</u>		_				Hydric Soil Prese	nt? Yes ✓ No
Remarks:								
HYDROLO	GY							
			,,					
1	drology Indicators		shook all that any	dia)			Cocondon Indi	natara (minimum of tura va suivad)
	cators (minimum of	one required;						cators (minimum of two required)
_	Water (A1) ater Table (A2)		Salt Crus	nvertebrate	oc (B13)		_	il Cracks (B6) egetated Concave Surface (B8)
				Sulfide O	` '		Drainage F	, ,
Saturation	larks (B1)			on Water		)		hizospheres on Living Roots (C3)
_	nt Deposits (B2)		✓ Oxidized			•		
	posits (B3)			not tilled			. ,	urrows (C8)
, —	at or Crust (B4)		Presence	of Reduce	ed Iron (C	4)	Saturation	Visible on Aerial Imagery (C9)
	oosits (B5)		Thin Muc	k Surface	(C7)		✓ Geomorph	ic Position (D2)
Inundati	on Visible on Aeria	I Imagery (B7)	Other (Ex	oplain in Re	emarks)		FAC-Neutr	al Test (D5)
Water-S	tained Leaves (B9)	•					Frost-Heav	e Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat			o <u>✓</u> Depth (i					
Water Table	Present?	Yes No	o <u>✓</u> Depth (i	nches):		_		
Saturation P		Yes No	o <u>✓</u> Depth (i	nches):		Wet	tland Hydrology Pres	ent? Yes ✓ No
(includes car	oillary fringe) corded Data (strea	m gauge moni	toring well aeria	nhotos n	revious in	enections)	if available:	1-2-
Describe Ke	colded Data (Streat	gaage, mom	won, acid	ριισισό, μ	STIOUS III	0,000,0018)	,, uvanabio.	
Remarks:								
Nemaiks.								

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	_ Sampling Date: 06/2	1/2013
Applicant/Owner: 130 Environmental F					_ Sampling Point: T8-D	
Investigator(s): Troegle, Josh & Littleto						
Landform (hillslope, terrace, etc.): Slough			-		ve Slope (%	(a): 4-6
Subregion (LRR): J - Southwestern Pra						
Soil Map Unit Name: Ts - Tinn soils, frequ				NWI classifi		
Are climatic / hydrologic conditions on the sit						
Are Vegetation, Soil, or Hydr	•				present? Yes ✓	No
Are Vegetation, Soil, or Hydr				eeded, explain any answ		
SUMMARY OF FINDINGS - Attac			•	•	,	res, etc.
Hydrophytic Vegetation Present?	′es					
Hydric Soil Present?	'es <u>√</u> No		e Sampled in a Wetlaı		No	
Wetland Hydrology Present?	'es <u>√</u> No	With	iii a vvetiai	id: res		
Remarks:						
VECETATION Use esigntific no	men of plants			****		
VEGETATION – Use scientific na						
Tree Stratum (Plot size: 30'	Absolute % Cover	Dominant Species?		Dominance Test wor		
1. Fraxinus pennsylvanica	70	Yes	FAC	Number of Dominant S That Are OBL, FACW,	or FAC	
2. Ulmus crassifolia	25	Yes	FAC	(excluding FAC-):	5	_ (A)
3. Melia azedarach	10	No	FACU	Total Number of Domi	nant	
4				Species Across All Str	_	_ (B)
1.50	105	= Total Cov	/er	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15'	)	N.	EAC	That Are OBL, FACW,		_ (A/B)
1. Carya illinoinensis 2. Celtis laevigata	10 30	No Yes	FAC	Prevalence Index wo	rksheet:	
3. Rhus copallinum	5	No	NI	Total % Cover of:	Multiply by:	
4 Ulmus americana	10	No	FAC		x 1 =	
5.				FACW species	x 2 =	
J	55	= Total Cov	/er	FAC species	x 3 =	
Herb Stratum (Plot size: 30'	_)				x 4 =	
1. Persicaria hydropiper		No	OBL	UPL species	x 5 =	
2. Cyperus polystachyos		No	FACW	Column Totals:	(A)	(B)
3. Chasmanthium latifolium	5	No	FACU	Prevalence Inde:	x = B/A =	
4. Ambrosia trifida	80	Yes	FAC	Hydrophytic Vegetat		
5. Iva annua		Yes	FAC		Hydrophytic Vegetation	
6				✓ 2 - Dominance Te		
7				3 - Prevalence Inc	dex is ≤3.0 <sup>1</sup>	
8					Adaptations <sup>1</sup> (Provide su	
9					ks or on a separate shee	,
10	185	= Total Co		Problematic Hydro	ophytic Vegetation <sup>1</sup> (Expl	lain)
Woody Vine Stratum (Plot size: 30'	)	- Total Co	/ei		oil and wetland hydrology	y must
1				be present, unless dis	turbed or problematic.	
2				Hydrophytic		
50		= Total Co	/er	Vegetation Present? Yes	es <u>√</u> No	
% Bare Ground in Herb Stratum 50				, resent:	NU	
Remarks:	at alaurah					
Tree and saplings/shrub on perimeter	at Slough.					

Depth (inches)	Matrix		pth needed to docu Red	ox Feature				
(IIICHES)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks
8-0	10 YR 2/1	85	5 YR 5/8	15	<u>C</u>	M	Clay	
8-15	10 YR 2/1	75	10 YR 5/1	15	D	M	Clay	
			5 YR 5/8	10	C	M		
			-					
			-					
1							2	
			M=Reduced Matrix, C			d Sand G		n: PL=Pore Lining, M=Matrix.
•		cable to a	II LRRs, unless other					Problematic Hydric Soils <sup>3</sup> :
Histoso	. ,			Gleyed M Redox (S				(A9) (LRR I, J)
_	pipedon (A2) listic (A3)			ed Matrix (	,			ie Redox (A16) ( <b>LRR F, G, H</b> ) ce (S7) ( <b>LRR G</b> )
_	en Sulfide (A4)			,	ineral (F1)			Depressions (F16)
	d Layers (A5) (LRR	F)		Gleyed N	, ,			outside of MLRA 72 & 73)
	uck (A9) (LRR F, G,			ed Matrix			Reduced V	
Deplete	d Below Dark Surface	ce (A11)	✓ Redox	Dark Surf	face (F6)		Red Parent	Material (TF2)
Thick D	ark Surface (A12)				urface (F7	١		w Dark Surface (TF12)
_ ′	Mucky Mineral (S1)			Depression				ain in Remarks)
	Mucky Peat or Peat			-				drophytic vegetation and
5 cm M	ucky Peat or Peat (S	53) (LRR I	-) (M	LRA /2 &	73 of LRF	(H)		rology must be present, urbed or problematic.
Poetrictivo	Layer (if present):						unless disti	inbed of problematic.
Tuno								
							Hudria Cail Dres	ont2 Vos √ No
Depth (in	nches):						Hydric Soil Pres	sent? Yes No
							Hydric Soil Pres	sent? Yes <u>√</u> No
Depth (in							Hydric Soil Pres	sent? Yes ✓ No
Depth (in							Hydric Soil Pres	sent? Yes <u>√</u> No
Depth (in	nches):						Hydric Soil Pres	sent? Yes <u>√</u> No
Depth (in Remarks:	OGY						Hydric Soil Pres	sent? Yes ✓ No
Depth (in Remarks: IYDROLO Wetland Hy	OGY rdrology Indicators	:		olv)				
Depth (in Remarks: IYDROLO Wetland Hy Primary Indi	OGY vdrology Indicators	:	ed; check all that app				Secondary In	dicators (minimum of two required)
Depth (in Remarks: IYDROLO Wetland Hy Primary Indi Surface	OGY rdrology Indicators icators (minimum of	:	ed; check all that app	st (B11)	es (B13)		Secondary In  ✓ Surface S	dicators (minimum of two required) Soil Cracks (B6)
Depth (in Remarks:  IYDROLO  Wetland Hy Primary Indi  Surface High Wa	OGY rdrology Indicators icators (minimum of Water (A1) ater Table (A2)	:	ed; check all that app Salt Crus Aquatic I	st (B11) nvertebrat			Secondary In  ✓ Surface S  — Sparsely	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Wa Saturati	OGY rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3)	:	ed; check all that app Salt Crus Aquatic I Hydroger	st (B11) nvertebrat n Sulfide C	odor (C1)		Secondary In  ✓ Surface S  — Sparsely ✓ Drainage	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water Mater M	ordes):  ordes	:	ed; check all that app Salt Crus Aquatic I Hydroger Dry-Seas	st (B11) nvertebrat n Sulfide C son Water	odor (C1) Table (C2)		Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water M Sedime	ordes):  ordes in incident of	:	ed; check all that app Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	st (B11) nvertebrat n Sulfide C son Water Rhizosph	Odor (C1) Table (C2) eres on Liv		Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3)
Depth (in Remarks:   YDROLO Wetland Hy Primary Indi Surface High W: Saturati Water M Sedime Drift De	ordes):  ordes in incident of	:	ed; check all that applications and selections are selected all that applications are selected as a selected and selected are selected as a selected all that applications are selected as a selected are selected	st (B11) nvertebrat n Sulfide C son Water Rhizosph	Odor (C1) Table (C2) eres on Liv	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  ((C3) (where  — Crayfish	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8)
Depth (in Remarks:  IYDROLO  Wetland Hy  Primary Indi  Surface  High Water Mater Mat	ordes):  ordes	:	ed; check all that approper Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where  — Crayfish  — Saturatio	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (in Remarks:  IYDROLO  Wetland Hy  Primary Indi  Surface  High Water Mark  Sedime  Drift De  Algal M.  Iron De	ordes):  OGY  Adrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) ant Deposits (B2) ator Crust (B4) posits (B5)	: one requir	ed; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled of Reduct k Surface	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4) (C7)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (in Remarks:  IYDROLO  Wetland Hy Primary Indi Surface High Water M Sedime Drift De Algal M Iron De Inundati	order (Minimum of States (Minimum of States (Minimum of States (Minimum of States (Marks (Mar	: one requir	ed; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled of Reduct k Surface	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4) (C7)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water M Sedime Drift De Algal M Iron De Inundat Water-S	ordes):  ordes	: one requir	ed; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled of Reduct k Surface	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4) (C7)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water M Sedime Drift De Algal M Iron De Inundati Water-S Field Obser	ordes):  ordes):  ordeside Architecture (A1)  ater Table (A2)  ion (A3)  Marks (B1)  int Deposits (B2)  iposits (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:	: one requir	ed; check all that appropriate	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled of Reduc sk Surface	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4 (C7) lemarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2)
Depth (in Remarks:  IYDROLO  Wetland Hy Primary Indi Surface High Water Mark Sedime Drift De Algal Mark Iron De Inundat Water-S Field Obser Surface Wat	ordes):  ordes):  ordesolve description (A1)  ater Table (A2)  ion (A3)  Marks (B1)  int Deposits (B2)  posits (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:  ter Present?	: one requir Imagery (	ed; check all that approximate the control of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled of Reduc ck Surface xplain in R	Odor (C1) Table (C2) eres on Liv I) led Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2)
Depth (in Remarks:  IYDROLO  Wetland Hy Primary Indi Surface High Water Males In Market Males In Males	ordes):  ordes):  ordesolved indicators orde	: one requir Imagery (	ed; check all that approximate the control of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R nches): nches):	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2) utral Test (D5) ave Hummocks (D7) (LRR F)
Depth (in Remarks:  IYDROLO  Wetland Hy Primary Indi Surface High Water Mare Mare Mare Mare Mare Mare Mare Ma	ordes):  ordes):  ordesolved indicators orde	: one requir Imagery (	ed; check all that approximate the control of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph e not tilled e of Reduc ck Surface xplain in R nches): nches):	Odor (C1) Table (C2) eres on Liv I) ed Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water Manage Manage Manage Mater Section Iron Depte Inundate Mater Section Per Surface Water Table Saturation Per (includes ca	ordes):  ordes):  ordesolve description (A1)  ordesolve (A1)  ordesolve (A2)  ordesolve (A2)  ordesolve (A3)  Marks (B1)  ordesolve (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:  ter Present?  Present?  Present?  pillary fringe)	: one requir Imagery ( Yes Yes Yes	ed; check all that approximate the control of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled e of Reduc ck Surface xplain in R nches): nches): nches):	Odor (C1) Table (C2) eres on Liv I) led Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2) utral Test (D5) ave Hummocks (D7) (LRR F)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water Manage Manage Manage Mater Section Iron Depte Inundate Mater Section Per Surface Water Table Saturation Per (includes ca	ordes):  ordes):  ordesolve description (A1)  ordesolve (A1)  ordesolve (A2)  ordesolve (A2)  ordesolve (A3)  Marks (B1)  ordesolve (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:  ter Present?  Present?  Present?  pillary fringe)	: one requir Imagery ( Yes Yes Yes	ed; check all that approximate the content of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled e of Reduc ck Surface xplain in R nches): nches): nches):	Odor (C1) Table (C2) eres on Liv I) led Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2) utral Test (D5) ave Hummocks (D7) (LRR F)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water Manage Manage Manage Mater Section Iron Depte Inundate Mater Section Per Surface Water Table Saturation Per (includes ca	ordes):  ordes):  ordesolve description (A1)  ordesolve (A1)  ordesolve (A2)  ordesolve (A2)  ordesolve (A3)  Marks (B1)  ordesolve (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:  ter Present?  Present?  Present?  pillary fringe)	: one requir Imagery ( Yes Yes Yes	ed; check all that approximate the content of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled e of Reduc ck Surface xplain in R nches): nches): nches):	Odor (C1) Table (C2) eres on Liv I) led Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2) utral Test (D5) ave Hummocks (D7) (LRR F)
Depth (in Remarks:  IYDROLO Wetland Hy Primary Indi Surface High Water Magal M	ordes):  ordes):  ordesolve description (A1)  ordesolve (A1)  ordesolve (A2)  ordesolve (A2)  ordesolve (A3)  Marks (B1)  ordesolve (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:  ter Present?  Present?  Present?  pillary fringe)	: one requir Imagery ( Yes Yes Yes	ed; check all that approximate the content of the c	st (B11) nvertebrat n Sulfide C son Water Rhizosph not tilled e of Reduc ck Surface xplain in R nches): nches): nches):	Odor (C1) Table (C2) eres on Liv I) led Iron (C4 (C7) demarks)	ing Roots	Secondary In  ✓ Surface S  — Sparsely  ✓ Drainage  — Oxidized  (C3) (where  — Crayfish  — Saturatio  ✓ Geomorp  — FAC-Neu  — Frost-He	dicators (minimum of two required) Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3) tilled) Burrows (C8) n Visible on Aerial Imagery (C9) ohic Position (D2) utral Test (D5) ave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental F	ark	(	City/Coun	ty: Lockhai	rt/Caldwell	Sampling Date: 06/21/2013	
Applicant/Owner: 130 Environmen				Sampling Point: T8-DP5			
Investigator(s): Troegle, Josh & Li		<u> </u>	Section,	Township, Rai	nge: NA		
Landform (hillslope, terrace, etc.): De	pression		Local reli	ef (concave, o	convex, none): Concav	e Slope (%): 2-4	
Subregion (LRR): J - Southwestern							
Soil Map Unit Name: Ts - Tinn soils,					NWI classific		
Are climatic / hydrologic conditions on t				✓ No	(If no, explain in R	lemarks.)	
Are Vegetation, Soil, or						oresent? Yes ✓ No	
Are Vegetation, Soil, or					eeded, explain any answe		
SUMMARY OF FINDINGS - A						2.0	
Hydrophytic Vegetation Present?	Yes ✓	No	lo.	the Sampled	Aron		
Hydric Soil Present? Yes ✓ No				thin a Wetlar			
Wetland Hydrology Present?	Yes <u>√</u>	No		unin a vvectar	10.		
Remarks:							
<b>VEGETATION</b> – Use scientific	names of pla	nts.					
	•		Domina	nt Indicator	Dominance Test work	sheet.	
Tree Stratum (Plot size: 30'	)			Status			
1. Fraxinus pennsylvanica	/	85	Yes	FAC	Number of Dominant S That Are OBL, FACW,		
2. Ulmus crassifolia		10	No	FAC	(excluding FAC-):	5 (A)	
		J101.0			Total Number of Demin	nont.	
3					Total Number of Domin Species Across All Stra	^	
4		95	= Total C	:over			
Sapling/Shrub Stratum (Plot size: 1	5')		- Total C	00001	Percent of Dominant Sport That Are OBL, FACW,		
1. Ulmus crassifolia		50	Yes	FAC			
2. Fraxinus pennsylvanica		20	Yes	FAC	Prevalence Index wor	ksheet:	
3						Multiply by:	
4					1	x 1 =	
5.					1	x 2 =	
	****	70	= Total C	Cover	1	x 3 =	
Herb Stratum (Plot size: 15'	)					x 4 =	
1. Ambrosia trifida			Yes	FAC		x 5 =	
2					Column Totals:	(A) (B)	
3					Prevalence index	c = B/A =	
4					Hydrophytic Vegetation		
5						Hydrophytic Vegetation	
6	5,470				✓ 2 - Dominance Tes	•	
7					3 - Prevalence Inde		
8					i —	Adaptations <sup>1</sup> (Provide supporting	
9					data in Remark	s or on a separate sheet)	
10					Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)	
201		50	= Total C	Cover			
Woody Vine Stratum (Plot size: 30'	)	20	Vac	EAC	'Indicators of hydric soil be present, unless disti	il and wetland hydrology must urbed or problematic.	
1. Smilax rotundifolia		$-\frac{30}{20}$	Yes	FAC FACU	<u> </u>	and or problemate.	
2. Toxicodendron radicans		= 20 50	Yes		Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 95		30	= Total C	cover	Present? Ye	es <u>√</u> No	
Remarks:							
Trees on perimeter of depression.							
11003 off perimeter of depression.							
The state of the s							

Depth	Matrix			ox Feature	s		_	_
(inches)	Color (moist)		olor (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
)-12	10 YR 2/1	90 10	YR 5/8	10			Clay	
·								
Type: C=C	Concentration, D=Dep	oletion, RM=Red	uced Matrix, C	S=Covere	d or Coate	d Sand G	rains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.
ydric Soil	Indicators: (Applic	able to all LRR	s, unless oth	erwise not	ed.)		Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy	Gleyed Ma	atrix (S4)		1 cm M	luck (A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy	Redox (S5	ō)		Coast F	Prairie Redox (A16) (LRR F, G, H)
Black H	listic (A3)		Strippe	ed Matrix (S	S6)		Dark Si	urface (S7) (LRR G)
Hydroge	en Sulfide (A4)		Loamy	/ Mucky Mi	neral (F1)			ains Depressions (F16)
_ Stratifie	d Layers (A5) (LRR	F)		Gleyed M				R H outside of MLRA 72 & 73)
_	uck (A9) ( <b>LRR F, G,</b>			ted Matrix (	,			ed Vertic (F18)
	d Below Dark Surfac	e (A11)		Dark Surfa	, ,			arent Material (TF2)
	ark Surface (A12)			ted Dark Su				hallow Dark Surface (TF12)
	Mucky Mineral (S1)	(00) (LBB C II)		Depressio		16)		Explain in Remarks) of hydrophytic vegetation and
	Mucky Peat or Peat			lains Depr		-		I hydrology must be present,
_ 5 cm M	ucky Peat or Peat (S	(LKK F)	(141	LRA 12 Q	13 OI LKK	n)		disturbed or problematic.
estrictive	Layer (if present):	7) No						
Туре:								,
	nches):						Hydric Soil	Present? Yes ✓ No
—							Hydric Soil	Present? Yes ✓ No
Depth (in							Hydric Soil	Present? Yes ✓ No
Depth (in			•				Hydric Soil I	Present? Yes ✓ No
Depth (in Remarks:	nches):						Hydric Soil	Present? Yes <u>√</u> No
Depth (in	OGY						Hydric Soil	Present? Yes ✓ No
Depth (in temarks:	OGY vdrology Indicators				-			
Depth (in temarks:	OGY		eck all that ap				Seconda	ry Indicators (minimum of two requi
Depth (in lemarks:  YDROLO  Vetland Hy  rimary Indi  Surface	OGY vdrology Indicators icators (minimum of a Water (A1)		eck all that ap	st (B11)			Seconda ✓ Surfa	ry Indicators (minimum of two requi ace Soil Cracks (B6)
Depth (in lemarks:  YDROLO  Vetland Hy  rimary Indi  Surface	OGY vdrology Indicators		eck all that ap		es (B13)		Seconda ✓ Surfa	ry Indicators (minimum of two requi
Depth (in emarks: /DROLO /etland Hy rimary Indi Surface High W.	OGY vdrology Indicators icators (minimum of a Water (A1)		eck all that ap	st (B11) nvertebrate			Seconda ✓ Surfa Spar	ry Indicators (minimum of two requi ace Soil Cracks (B6)
Depth (in emarks: /DROLC /etland Hy rimary Indi Surface High W. Saturati	OGY vdrology Indicators icators (minimum of a Water (A1) ater Table (A2)		eck all that ap Salt Crus Aquatic	st (B11) nvertebrate n Sulfide O	dor (C1)		Seconda ✓ Surfa — Spar — Drain	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (I
Depth (in lemarks:  /DROLC Vetland Hy rimary Indi Surface High W Saturati Water M	OGY  rdrology Indicators icators (minimum of a Water (A1) ater Table (A2) ion (A3)		eck all that ap Salt Crus Aquatic I	st (B11) Invertebrate n Sulfide O son Water	dor (C1) Table (C2)		Seconda  ✓ Surfa  _ Spar  _ Drair  _ Oxid	ry Indicators (minimum of two requi ace Soil Cracks (B6) sely Vegetated Concave Surface (I nage Patterns (B10)
Depth (in lemarks:  /DROLO /etland Hy rimary Indi Surface High W Saturati Water N Sedime	orches):		eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized	st (B11) Invertebrate n Sulfide O son Water	dor (C1) Table (C2) eres on Liv		Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (I nage Patterns (B10) ized Rhizospheres on Living Roots
Depth (in Remarks:  YDROLO  Vetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De	ordes):  ordeside description of the control of the		eck all that ap Salt Crus Aquatic   Hydroge Dry-Seas Oxidized (where	st (B11) Invertebrate In Sulfide O Son Water I Rhizosphe	odor (C1) Table (C2) eres on Liv )	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (I nage Patterns (B10) lized Rhizospheres on Living Roots here tilled)
Depth (in Remarks:  YDROLO  Yetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Algal M	ordes):  ordes):  ordeside videology Indicators icators (minimum of a Water (A1) idater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3)		eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence	st (B11) nvertebrate n Sulfide O son Water Rhizosphe e not tilled	odor (C1) Table (C2) eres on Liv ) ed Iron (C4	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w)  — Cray  — Satu	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (I nage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8)
Depth (in Remarks:  YDROLO  Yetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De	ordes):  ordes):  ordeside description of the control of the contr	: one required; ch	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence	st (B11) Invertebrate In Sulfide O In Sulfid	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray  — Satu  ✓ Geor	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (I nage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8) rration Visible on Aerial Imagery (CS
Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat	ordes):  ordes):  ordeside (Archaeles):  orde	: one required; ch	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence	st (B11) Invertebrate In Sulfide O In Sulfid	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2)
Depth (in Remarks:  YDROLO  Vetland Hy Primary Indi Surface High W. Saturati Water N Sedime Drift De Algal M Iron De Inundat Water-S	ordes):  ordes):  ordeside (Action (Ac	: one required; ch	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence	st (B11) Invertebrate In Sulfide O In Sulfid	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) sely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) tration Visible on Aerial Imagery (C9 morphic Position (D2)
Primary Indi Surface High W. Saturati Water M. Sedime Algal M. Iron De Inundat Water-S Gield Obser	ordes):  ordes):  ordeside Architecture (A1)  ater Table (A2)  ion (A3)  Marks (B1)  ion Deposits (B2)  posits (B3)  at or Crust (B4)  posits (B5)  ion Visible on Aerial  Stained Leaves (B9)  rvations:	: one required; ch	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc	st (B11) Invertebrate In Sulfide O In Sulfide	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2)
Depth (in Remarks:  YDROLO  Vetland Hy  Primary Indi  Surface  High W.  Saturati  Water M.  Sedime  Drift De  Algal M.  Iron De  Inundat  Water-Stield Obser	ordes):  ordes):  ordesolve description (A2)  ordesolve description (A3)  ordesolve de	: one required; ch Imagery (B7)	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Muc	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2)
Depth (in Remarks:  YDROLO  Vetland Hy  Primary Indi Surface High W Saturati Water N Sedime  J Drift De Algal M Iron De Inundat Water-S  Field Obset  Surface Water Table	ordes):  ordes):  ordesolve Indicators icators (minimum of the Water (A1) ater Table (A2) ion (A3) Marks (B1) ant Deposits (B2) aposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial Stained Leaves (B9) rvations: ter Present?	Imagery (B7)	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) invertebrate in Sulfide O son Water Rhizosphe in not tilled e of Reduce ck Surface xplain in Re inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w)  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (in Remarks:  YDROLO  Vetland Hy Primary Indi Surface High W Saturati Water N Sedime V Drift De Algal M Iron De Inundat Water-S Field Obset Surface Water Table Saturation F	orches):  orches):  orches):  orches):  orches  orches	: one required; ch Imagery (B7)	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) invertebrate in Sulfide O son Water Rhizosphe in not tilled e of Reduce ck Surface xplain in Re inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  ✓ Surfa  — Spar  — Drair  — Oxid  (C3) (w)  — Cray  — Satu  ✓ Geor  — FAC	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) rfish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2)
Depth (in Remarks:  YDROLO  Vetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Iron De Inundat Water-S Field Obset Surface Water Table Saturation Fincludes ca	orches):  orches):  orches):  orches):  orches):  orches):  orches  orches):  orches	Imagery (B7)  Yes No _ Yes No _ Yes No _	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches): inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  V Surfa Spar Drair Oxid (C3) (w) Cray Satu V Geol FAC Fros	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (in Remarks:  YDROLO  Vetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Iron De Inundat Water-S  Field Obser  Surface Water Table Saturation Fincludes ca	orches):  orches):  orches):  orches):  orches  orches	Imagery (B7)  Yes No _ Yes No _ Yes No _	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches): inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  V Surfa Spar Drair Oxid (C3) (w) Cray Satu V Geol FAC Fros	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (in Remarks:  YDROLO Vetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Iron De Inundat Water-S Gield Obset Surface Water Table Saturation Fincludes cal	orches):  orches):  orches):  orches):  orches):  orches):  orches  orches):  orches	Imagery (B7)  Yes No _ Yes No _ Yes No _	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches): inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  V Surfa Spar Drair Oxid (C3) (w) Cray Satu V Geol FAC Fros	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (in Remarks:  YDROLO Vetland Hy Inimary Indi Surface High W. Saturati Water M. Sedime Inon Delinundat Water-Sield Obsers Surface Water Tables Saturation Fincludes callosscribe Reservers	orches):  orches	Imagery (B7)  Yes No _ Yes No _ Yes No _	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches): inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  V Surfa Spar Drair Oxid (C3) (w) Cray Satu V Geol FAC Fros	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)
Depth (in Remarks:  YDROLO  Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime ✓ Drift De Inundat Water-S Field Obsel Surface Water Table Saturation F includes ca	orches):  orches	Imagery (B7)  Yes No _ Yes No _ Yes No _	eck all that ap Salt Crus Aquatic I Hydroge Dry-Seas Oxidized (where Presence Thin Mue Other (E	st (B11) nvertebrate n Sulfide O son Water l Rhizosphe e not tilled e of Reduc ck Surface xplain in Re inches): inches): inches):	odor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots	Seconda  V Surfa Spar Drair Oxid (C3) (w) Cray Satu V Geol FAC Fros	ry Indicators (minimum of two requi ace Soil Cracks (B6) rsely Vegetated Concave Surface (Inage Patterns (B10) lized Rhizospheres on Living Roots here tilled) fish Burrows (C8) rration Visible on Aerial Imagery (C9 morphic Position (D2) -Neutral Test (D5) t-Heave Hummocks (D7) (LRR F)



Data Point 1
Post Oak Woods



Data Point 1
Post Oak Woods



Data Point 2 Cedar Elm Woods

T8 – Page 1



Data Point 3 Sumpweed Depressions



Data Point 4
Forested Wetlands



Data Point 5
Forested Wetlands

T8 – Page 2

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC		•			Sampling Point: T9-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Hillslope					Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: WgC - Wilson gravelly loam, 1 to					
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology i				eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					·
			•		
Hydrophytic Vegetation Present? Yes ✓ N Hydric Soil Present? Yes _ N	lo <b>/</b>		ne Sampled		
Wetland Hydrology Present? Yes N	lo 🗸	with	nin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of plan	its.				
Tree Stratum (Plot size: 30' )	Absolute		Indicator	Dominance Test work	ksheet:
1. Quercus stellata	75	Species? Yes	FACU	Number of Dominant S That Are OBL, FACW,	
2. Ulmus crassifolia	25	Yes	FAC	(excluding FAC-):	4 (A)
3				Total Number of Domi	nant
4.				Species Across All Str	7
	100	= Total Co	ver	Percent of Dominant S	inecies
Sapling/Shrub Stratum (Plot size: 15')			D. C	That Are OBL, FACW,	
1. Ulmus crassifolia	_ 20	Yes	FAC	Prevalence Index wo	rksheet:
2. Mahonia trifoliolata	- <del>40</del> 15	Yes No	NI NI		Multiply by:
3. Diospyros texana 4. Ilex vomitoria	$-\frac{13}{20}$	Yes	FAC	1	x 1 =
		163	- <del> </del>		x 2 =
5	95	= Total Co		FAC species	x 3 =
Herb Stratum (Plot size: 5'		Total G0	VEI	FACU species	x 4 =
1. Opuntia engelmannii	10	No	NI	UPL species	x 5 =
2. Nassella leucotricha	60	Yes	NI	Column Totals:	(A) (B)
3				Prevalence Index	x = B/A =
4				Hydrophytic Vegetati	
5					Hydrophytic Vegetation
6				✓ 2 - Dominance Te	
7				3 - Prevalence Ind	
8				l .	Adaptations <sup>1</sup> (Provide supporting
9					(s or on a separate sheet)
10	70	= Total Co		Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		= Total Co	ver		il and wetland hydrology must
1. Smilax rotundifolia	30	Yes	FAC	be present, unless dist	urbed or problematic.
2				Hydrophytic	
	30	= Total Co	ver	Vegetation Present? Ye	es No
% Bare Ground in Herb Stratum 60				riesent: 16	75 NO
Remarks:					

Profile Des	cription: (Describ	e to the depth ne				or confirm	n the absence of inc	licators.)	
Depth (in sheet)	Matrix			x Feature	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Domorto	
(inches) 0-4	Color (moist) 10 YR 5/4	<u>%</u> <u>C</u>	olor (moist)		Type	LUC	Sandy clay	Remarks	
0-4	10 11 3/4			- —			- Salidy Clay		
									<del></del>
	oncentration, D=De					ed Sand G		PL=Pore Lining,	
Hydric Soil	Indicators: (Appl	cable to all LRR	s, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydri	c Soils³:
Histoso	l (A1)			Gleyed Ma				A9) ( <b>LRR I, J</b> )	
_	pipedon (A2)			Redox (S5	,			Redox (A16) (Li	RR F, G, H)
_	listic (A3)			d Matrix (S				e (S7) (LRR G)	,
	en Sulfide (A4)	· <b>E</b> \		Mucky Mir Gleyed Ma				Depressions (F16 outside of MLRA	•
	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR F, G</b>	•		ed Matrix (i			Reduced Ve		12 & 13)
_	d Below Dark Surfa			Dark Surfa				Material (TF2)	
	ark Surface (A12)	,		d Dark Su	. ,	)		v Dark Surface (T	F12)
Sandy I	Mucky Mineral (S1)			Depressio	ns (F8)			in in Remarks)	
_	Mucky Peat or Peat			ains Depre			-	drophytic vegetation	
5 cm M	ucky Peat or Peat (	S3) ( <b>LRR F</b> )	(ML	RA 72 &	73 of LRF	( H)	-	ology must be pre	
Destriction	I ('f						unless distur	bed or problemat	ic.
1	Layer (if present):								
Type: Co							Hudria Call Duan		No. of
	iches): Four						Hydric Soil Prese	ent? res	No <u>√</u>
Remarks:									
HYDROLO	GY								
Wetland Hy	drology Indicators	S:							
Primary Indi	cators (minimum of	one required; che	eck all that app	ly)			Secondary Ind	licators (minimum	of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface S	oil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic In	vertebrate	es (B13)		Sparsely \	Vegetated Concar	ve Surface (B8)
Saturati	ion (A3)		Hydrogen	Sulfide O	dor (C1)		Drainage	Patterns (B10)	
Water N	/larks (B1)		Dry-Seaso	on Water	Table (C2)	)	Oxidized I	Rhizospheres on	Living Roots (C3)
Sedime	nt Deposits (B2)		Oxidized I	Rhizosphe	res on Liv	ing Roots	. ,	•	
Drift De	posits (B3)		,	not tilled)			-	Burrows (C8)	
	at or Crust (B4)		Presence		•	4)		Visible on Aerial	Imagery (C9)
	posits (B5)	(==)	Thin Muck		. ,			nic Position (D2)	
	ion Visible on Aeria		Other (Ex	plain in Re	emarks)		_	ral Test (D5)	7) (100.5)
	Stained Leaves (B9	)					Frost-Hea	ve Hummocks (D	/) (LRR F)
Field Obser			<b>5</b>						
		Yes No _				-			
Water Table		Yes No _							
Saturation F		Yes No _	Depth (in	iches):		_ Wet	land Hydrology Pres	sent? Yes	No <u>▼</u>
Describe Re	pillary fringe) ecorded Data (strea	m gauge, monitor	ring well, aerial	photos, pi	revious ins	spections)	, if available:		
20001100110		J							
Remarks:									
, comano.									

Project/Site: 130 Environmental Park		Citv/Count	v: Lockha	rt/Caldwell Sampling Date: 06/20/201
Applicant/Owner: 130 Environmental Park, LLC				State: TX Sampling Point: T9-DP2
Investigator(s): Troegle, Josh & Littleton, Brand				
•				
				convex, none): Concave Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies	Lat: 29.	97		Long: <u>-97.66</u> Datum: NAD 83
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 pe	rcent slopes, e	eroded		NWI classification: None
Are climatic / hydrologic conditions on the site typical fo	or this time of yea	ar? Yes 1	No _	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly	disturbed?	Are "	"Normal Circumstances" present? Yes   No
Are Vegetation, Soil, or Hydrology				eeded, explain any answers in Remarks.)
				ocations, transects, important features, et
Hydrophytic Vegetation Present? Yes ✓	No			
	No		he Sampled	
	No	Wit	hin a Wetlar	nd? Yes v No No
Remarks:		<u>'</u>		
VEGETATION – Use scientific names of p	olants.			
	Absolute	Dominar	nt Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30'			? Status	Number of Dominant Species
1. Ulmus crassifolia	40	Yes	FAC	That Are OBL, FACW, or FAC
2. Prosopis glandulosa	40	Yes	FACU	(excluding FAC-): 5 (A)
3				Total Number of Dominant
4				Species Across All Strata: 7 (B)
151	80	= Total Co	over	Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15')	40	V	EACH	That Are OBL, FACW, or FAC: 71 (A/B
1. Prosopis glandulosa		Yes Yes	FACU FAC	Prevalence Index worksheet:
2. Ulmus crassifolia	15	Yes	FAC	Total % Cover of: Multiply by:
3. Crataegus spathulata		1 es	FAC	OBL species x 1 =
4				FACW species x 2 =
5	70			FAC species x 3 =
Herb Stratum (Plot size: 5')	70	= Total C	over	FACU species x 4 =
1. Iva annua	80	Yes	FAC	UPL species x 5 =
2. Ambrosia trifida	10	No	FAC	Column Totals: (A) (B)
3. Opuntia engelmannii	5	No	NI	
4 Eleocharis palustris	60	Yes	OBL	Prevalence Index = B/A =
5. Cyperus polystachyos	30	No	FACW	Hydrophytic Vegetation Indicators:
6 Ambrosia artemisiifolia	10	No	FACU	1 - Rapid Test for Hydrophytic Vegetation
7. Avena fatua	5	No	NI	✓ 2 - Dominance Test is >50%
8. Carex brevior	15	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
9. Carex bulbostylis	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
10.				
	225	= Total C	over	Problematic Hydrophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30')				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.				Hydrophytic
		= Total C	over	Vegetation
% Bare Ground in Herb Stratum 10				Present? Yes No
Remarks:				

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence of indicators.)	
Depth	Matrix (maint)	0/		ox Featur	es _Type <sup>1</sup>	_Loc <sup>2</sup>	Toutive	
(inches) 0-4	Color (moist) 10 YR 3/1	80	Color (moist) 5 YR 4/6	_ <u>%</u> 15	C Type	M/PL	Texture Remarks Sandy/Clay	
<del></del>	10 11( 3/1		10 YR 6/1	- <del>10</del> 5	- <del>U</del>		Canayiolay	
	10.15		-			M/PL	2 1/0	
4-10	10 YR 4/1	60	5 YR 4/6	_ 20	<u> </u>	M/PL	Sandy/Clay	
			10 YR 6/1	_ 20	_ D	M/PL		
					70.7			
								-
								_
1T. may C=C	Concentration D=Da	nlotion PA	I=Reduced Matrix, C	S-Cover	od or Coat	od Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.	_
			I LRRs, unless other			ed Sand C	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histoso	,				latrix (S4)		1 cm Muck (A9) (LRR I, J)	
_	pipedon (A2)			Redox (S			Coast Prairie Redox (A16) (LRR F, G, H)	
_	listic (A3)			ed Matrix (			Dark Surface (S7) (LRR G)	
	en Sulfide (A4)	<b>E</b> \			ineral (F1)	)	High Plains Depressions (F16)	
I —	d Layers (A5) (LRR uck (A9) (LRR F, G	,	Loamy Deplet		/latrix (F2)		(LRR H outside of MLRA 72 & 73) Reduced Vertic (F18)	
_	d Below Dark Surfa		▼ Redox				Red Parent Material (TF2)	
	ark Surface (A12)	,			urface (F7	<b>'</b> )	Very Shallow Dark Surface (TF12)	
	Mucky Mineral (S1)			Depressi			Other (Explain in Remarks)	
	Mucky Peat or Peat				ressions (I		<sup>3</sup> Indicators of hydrophytic vegetation and	
5 cm M	ucky Peat or Peat (	53) ( <b>LKK F</b>	) (M:	LKA /2 &	73 of LRI	К Н)	wetland hydrology must be present, unless disturbed or problematic.	
Restrictive	Layer (if present):						amed distal sed of prosionalis.	
Type: C								
	nches): Ten						Hydric Soil Present? Yes ✓ No	
Remarks:								
HYDROLO	CV					7.0		
								_
	drology Indicators		ed; check all that app	alv)			Secondary Indicators (minimum of two require	rod\
		one require	Salt Crus				Surface Soil Cracks (B6)	reu)
_	· Water (A1) ater Table (A2)		_	nvertebrat	es (R13)		Sparsely Vegetated Concave Surface (E	38)
	ion (A3)		Hydroger				✓ Drainage Patterns (B10)	,,
_	Marks (B1)				Table (C2	2)	Oxidized Rhizospheres on Living Roots	(C3)
_	nt Deposits (B2)		✓ Oxidized					. ,
Drift De	posits (B3)		(where	not tilled	<b>i</b> )		Crayfish Burrows (C8)	
Algal M	at or Crust (B4)				ced Iron (C	(4)	Saturation Visible on Aerial Imagery (C9	3)
_	posits (B5)			k Surface	. ,		✓ Geomorphic Position (D2)	
_	ion Visible on Aeria		37) Other (E)	kplain in F	Remarks)		FAC-Neutral Test (D5)	
-	Stained Leaves (B9)						Frost-Heave Hummocks (D7) (LRR F)	
Field Obser		V	No. / Donth /i	h\				
			No ✓ Depth (iii					
Water Table			No ✓ Depth (ii				tland Hydrology Present? Yes ✓ No	
Saturation F (includes ca	resent? pillary fringe)	res	No <u>▼</u> Deptii (ii	nches)		_   We	dand Hydrology Present? Yes _ NO	_
Describe Re	ecorded Data (stream	m gauge, n	nonitoring well, aeria	l photos, p	orevious in	spections)	), if available:	
Remarks:		-						

Project/Site: 130 Environmental Park		City/Count	ty: Lockha	rt/Caldwell	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP3
Investigator(s): Troegle, Josh & Littleton, Brandy	/n				
• . ,					ve Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flood				NWI classifi	
Are climatic / hydrologic conditions on the site typical for		ar? Vac s			
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ	
SUMMARY OF FINDINGS - Attach site ma				•	
					-,p
Hydrophytic Vegetation Present? Yes ✓		ls t	the Sampled	d Area	
Hydric Soil Present? Yes ✓		wit	thin a Wetlar	nd? Yes <u>√</u>	No
Wetland Hydrology Present? Yes   Remarks:	No				
Remarks.					
VECTATION II CONTRACTOR OF A	1-	-			
VEGETATION – Use scientific names of pl					
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator  Status	Dominance Test wor	
1. Quercus stellata	10	No	FACU	Number of Dominant S That Are OBL, FACW,	• * *
2. Celtis laevigata	10	No	FAC	(excluding FAC-):	5 (A)
3. Quercus virginiana	25	Yes	FACU	Total Number of Domi	nant
4. Ulmus crassifolia	10	No	FAC	Species Across All Str	7
	55	= Total C	over	Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 15'		•	T. C	That Are OBL, FACW,	
1. Ulmus crassifolia	10	Yes Yes	- FAC FACU	Prevalence Index wo	rksheet:
2. Prosopis glandulosa			TACO	Total % Cover of:	
3					x 1 =
4 5				FACW species	x 2 =
5	60	= Total C	over	FAC species	x 3 =
Herb Stratum (Plot size: 5'		, rotar o	0.01	FACU species	x 4 =
1. Ambrosia trifida	40	Yes	FAC	UPL species	
2. Iva annua	50	Yes	FAC	Column Totals:	(A) (B)
3. Setaria parviflora	40	Yes	FAC TAC	Prevalence Inde	x = B/A =
4. Elymus virginicus	10	No	FAC	Hydrophytic Vegetat	
5. Carex brevior	30	No	FAC	1 - Rapid Test for	Hydrophytic Vegetation
6				✓ 2 - Dominance Te	
7				3 - Prevalence Inc	dex is ≤3.0 <sup>1</sup>
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
9		-		1	ks or on a separate sheet)
10	170	= Total C	over	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		_ rotar o	ovei		oil and wetland hydrology must
1. Smilax rotundifolia	20	Yes	FAC	be present, unless dis	turbed or problematic.
2				Hydrophytic	
	20	= Total C	over	Vegetation Present? Y	es <u>√</u> No
% Bare Ground in Herb Stratum 40				1.000	
Remarks:					

		e to the depth				or confirm	n the absence of in	dicators.)
Depth (inches)	Color (moist)	%	Red Color (moist)	ox Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(inches) 0-2	10 YR 4/1		10 YR 6/4	30	C	M/PL	Sandy clay	Remarks
	10 YR 3/1		10 YR 6/4	20	<u>c</u>	M/PL	Sandy clay	
2-6	10 18 3/1		10 11 0/4			IVI/FL	Salidy Clay	
							<del></del>	
	90.00							
								***************************************
1- 0.6			7 - du d \$4 - toiu				21	DI De la Linia de Mantria
	Concentration, D=Do Indicators: (Appl					ed Sand G		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
Histoso		icable to all L		Gleyed M				(A9) (LRR I, J)
_	pipedon (A2)			Redox (S	, .			ie Redox (A16) (LRR F, G, H)
	listic (A3)			ed Matrix (	•			ce (S7) (LRR G)
	en Sulfide (A4)		Loamy	Mucky M	ineral (F1)	)	High Plains	Depressions (F16)
_	ed Layers (A5) (LRF			Gleyed M			•	outside of MLRA 72 & 73)
	uck (A9) (LRR F, G		✓ Deplet ✓ Redox				Reduced V	,
· - ·	ed Below Dark Surfa eark Surface (A12)	ace (A11)		ed Dark Sun	. ,	<b>'</b> )		Material (TF2) w Dark Surface (TF12)
	Mucky Mineral (S1)			Depression		,		ain in Remarks)
	Mucky Peat or Pea			lains Dep	, ,	F16)		/drophytic vegetation and
5 cm M	ucky Peat or Peat (	S3) (LRR F)	(M	LRA 72 &	73 of LR	RH)	wetland hyd	frology must be present,
							unless distu	urbed or problematic.
	Layer (if present):							
Type: C								
	nches): Six						Hydric Soil Pres	sent? Yes ✓ No
Remarks:								
HYDROLO	OGY							
Wetland Hy	drology Indicator	s:						
Primary Ind	icators (minimum o	one required;	check all that app	oly)	-	<del>.</del>	Secondary In	dicators (minimum of two required)
Surface	Water (A1)		Salt Crus	st (B11)			Surface	Soil Cracks (B6)
High W	ater Table (A2)		Aquatic I	nvertebrat	es (B13)		Sparsely	Vegetated Concave Surface (B8)
Saturat	ion (A3)		Hydroger	n Sulfide C	Odor (C1)		🗹 Drainage	Patterns (B10)
Water I	Marks (B1)		Dry-Seas		•	-		Rhizospheres on Living Roots (C3)
Sedime	ent Deposits (B2)					ving Roots		e tilled)
_	posits (B3)		•	not tilled	·			Burrows (C8)
ı —	at or Crust (B4)		Presence		•	(4)		on Visible on Aerial Imagery (C9)
—	posits (B5)	Limes and /DZ		k Surface				phic Position (D2)
	ion Visible on Aeria		) Other (Ex	xpiain in R	emarks)			utral Test (D5)
Field Obse	Stained Leaves (B9	)					Flost-ne	ave Hummocks (D7) (LRR F)
		Vos N	Donth (i	nohoo):				
	ter Present?		lo ✓ Depth (i lo ✓ Depth (i					
Water Table			lo <u>▼                                    </u>				land Hudralam B-	esent? Yes ✓ No
Saturation F (includes ca	pillary fringe)							esent? Yes ✓ No
Describe Re	ecorded Data (strea	m gauge, mor	nitoring well, aeria	l photos, p	revious in	spections)	, if available:	
Remarks:								

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/2	0/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandyn					oumpling Form.	
Landform (hillslope, terrace, etc.): Floodplain					e Clara (6)	v. 0-1
Subregion (LRR): J - Southwestern Prairies						
						IAD 03
Soil Map Unit Name: Ts - Tinn soils, frequently flooded				NWI classifica		
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes <u>√</u>	No _	(If no, explain in Re	emarks.)	
Are Vegetation, Soil, or Hydrology si	ignificantly	disturbed?	Are '	'Normal Circumstances" p	resent? Yes ✓	No
Are Vegetation, Soil, or Hydrology no	aturally pro	blematic?	(If ne	eded, explain any answer	s in Remarks.)	
SUMMARY OF FINDINGS - Attach site map	showing	samplin	g point l	ocations, transects	, important featur	res, etc.
Hydrophytic Vegetation Present? Yes ✓ No.	)					
Hydric Soil Present? Yes ✓ No			e Sampled in a Wetlar		No <u>√</u>	
Wetland Hydrology Present? Yes <u>✓</u> No		With	ili a vvetiai	iur res	No	
Remarks:						
All FAC vegetation, no morphological adaptations. In prolong inundation. Not a wetland, riparian terrace.	lydrology	indicators	were more	e indicative of recent hi	gh flow event rather	than
protong mundation. Not a wettand, ripanan terrace.						
VEGETATION – Use scientific names of plant	ts.					
201	Absolute			Dominance Test works	sheet:	
		Species?		Number of Dominant Sp		
1. Quercus virginia	60	Yes	FACU	That Are OBL, FACW, of (excluding FAC-):	or FAC 4	(A)
2. Celtis laevigata		Yes	FAC	(excluding 1 7.0°).	-	_ (/-)
3				Total Number of Domina Species Across All Strat	_	(B)
4	140			Opecies Across All Strai	.a	(D)
Sapling/Shrub Stratum (Plot size: 15' )	140	= Total Co	ver	Percent of Dominant Sp That Are OBL, FACW, of		(A/B)
1. Ulmus crassifolia	60	Yes	FAC	Illat Ale OBL, FACW, t	r FAC: 00	_ (A/B)
2. Celtis laevigata	15	No	FAC	Prevalence Index work	sheet:	
3. Ilex vomitoria	10	No	FAC		Multiply by:	
4.				OBL species	x 1 =	
5.				FACW species		
-	85	= Total Co	ver	FAC species		
Herb Stratum (Plot size: 5'				FACU species		
1. Ambrosia trifida	10	Yes	FAC	UPL species		
2				Column Totals:	(A)	(B)
3				Prevalence Index	= B/A =	
4				Hydrophytic Vegetatio		
5				1 - Rapid Test for H		
6				✓ 2 - Dominance Test		
7				3 - Prevalence Inde		
8				4 - Morphological A	daptations¹ (Provide sı	upporting
9				1	or on a separate shee	-
10	10	- Total Car		Problematic Hydrop	hytic Vegetation¹ (Exp	lain)
Woody Vine Stratum (Plot size: 30'		= Total Co	ver	<sup>1</sup> Indicators of hydric soil		y must
1. Smilax rotundifolia	40	Yes	FAC	be present, unless distu	rbed or problematic.	
2.				Hydrophytic		
00	40	= Total Co	ver	Vegetation	s ✓ No	
% Bare Ground in Herb Stratum 80				Present? Yes	, NO	
Remarks:						

Profile Desc	cription: (Describe	to the depth				or confir	m the absence of in	dicators.)
Depth	Matrix		Color (moist)	ox Feature		_Loc²	. Tavetura	Damarka
(inches)	Color (moist)	80 10	Olor (moist)  O YR 6/2	<u>%</u> 20	Type <sup>1</sup>	M		Remarks
0-12	10 YR 2/1		J 1K 0/2	_ 20	<u>D</u>	IVI	Clay	
¹Type: C=C	oncentration, D=De	pletion, RM=R	educed Matrix, C	S=Covere	ed or Coat	ed Sand C	Grains. <sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
	Indicators: (Appli							Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy	Gleyed M	latrix (S4)		1 cm Muck	(A9) (LRR I, J)
Histic E	pipedon (A2)		Sandy	Redox (S	5)		Coast Prair	ie Redox (A16) (LRR F, G, H)
	istic (A3)			ed Matrix (	,		_	ce (S7) (LRR G)
	en Sulfide (A4)			-	ineral (F1)			Depressions (F16)
_	d Layers (A5) (LRR	,			fatrix (F2)		,	outside of MLRA 72 & 73)
_	uck (A9) ( <b>LRR F, G</b> , d Below Dark Surfa			ed Matrix Dark Surf			Reduced V	eriic (F18) Material (TF2)
	ark Surface (A12)	ce (ATT)	✓ Deplete			7)		w Dark Surface (TF12)
	Mucky Mineral (S1)			Depression		,		ain in Remarks)
	Mucky Peat or Peat	(S2) (LRR G, I		-	, ,	F16)		drophytic vegetation and
5 cm Mu	ucky Peat or Peat (	63) ( <b>LRR F</b> )	(MI	LRA 72 &	73 of LR	R H)	wetland hyd	frology must be present,
							unless distu	urbed or problematic.
Restrictive	Layer (if present):							
Type:			_					,
Depth (in	ches):						Hydric Soil Pres	sent? Yes <u>√</u> No
Remarks:								
HYDROLO	GY							
	drology Indicators	•						
	cators (minimum of		check all that ann	nlv)			Secondary In	dicators (minimum of two required)
	Water (A1)	one required; t	Salt Crus			*		Soil Cracks (B6)
	ater Table (A2)			nvertebrat	es (B13)			Vegetated Concave Surface (B8)
Saturati			Hydroger					Patterns (B10)
_	larks (B1)		Dry-Seas			2)		Rhizospheres on Living Roots (C3)
_	nt Deposits (B2)		Oxidized					
✓ Drift De				not tilled		0		Burrows (C8)
	at or Crust (B4)		Presence			(4)		on Visible on Aerial Imagery (C9)
	posits (B5)			k Surface		,		ohic Position (D2)
	on Visible on Aerial	Imagery (B7)	Other (Ex					utral Test (D5)
	tained Leaves (B9)						Frost-He	ave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?	Yes No	✓ Depth (ir	nches):				
Water Table			Depth (in			1		
Saturation P			Depth (ii				tiand Hydrology Pre	esent? Yes <u>√</u> No
(includes ca	pillary fringe)							
Describe Re	corded Data (stream	n gauge, moni	toring well, aerial	l photos, p	revious ir	spections	), if available:	
Remarks:								
Hydrology i	ndicators observe	ed were indica	ative of recent l	nigh flow	event, n	ot inunda	ation.	

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	_ Sampling Date: 06/20/2	2013
Applicant/Owner: 130 Environmental Park, LLC					_ Sampling Point: T9-DP	
Investigator(s): Troegle, Josh & Littleton, Brandyn					<u></u>	
Landform (hillslope, terrace, etc.): Fringe Wetland					ve Slone (%)	5-8
Subregion (LRR): J - Southwestern Prairies			-			
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 percer				NWI classif		<del> </del>
Are climatic / hydrologic conditions on the site typical for this	-					
					present? Yes ✓ No	
Are Vegetation, Soil, or Hydrologys						
Are Vegetation, Soil, or Hydrology r				eded, explain any answ	•	4-
SUMMARY OF FINDINGS – Attach site map	Snowing	Sampiin	g point i		s, important features	, etc.
Hydrophytic Vegetation Present? Yes ✓ N	lo	Is th	e Sampled	Area		
Hydric Soil Present? Yes ✓ N			in a Wetlar		No	
	lo					
Remarks:						
VECETATION . He exicutific names of plan	40					
VEGETATION – Use scientific names of plan		Danainana	In dia atau	Daminon T. of	1.1	
Tree Stratum (Plot size: 15'	Absolute % Cover	Dominant Species?		Dominance Test wor		
1				Number of Dominant S That Are OBL, FACW	. or FAC	
2.				(excluding FAC-):	3	(A)
3.				Total Number of Domi	inant	
4.				Species Across All Str	4	(B)
4.5		= Total Co	ver	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15' )	-	37	EAG	That Are OBL, FACW		(A/B)
1. Ulmus crassifolia	- <del>5</del> 5	Yes	FAC	Prevalence Index wo	orksheet:	
2. Diospyros texana		Yes	NI		Multiply by:	
3					x 1 =	_
4					x 2 =	
5	10				x3=	
Herb Stratum (Plot size: 5')		= Total Co	ver		x 4 =	
1. Cyperus polystachyos	60	Yes	FACW	UPL species	x 5 =	_
2. Iva annua	30	No	FAC		(A)	(B)
3. Phyla lanceolata	10	No	FACW	Description of the	- B/A	
4. Persicaria hydropiper	25	No	OBL	Hydrophytic Vegetat	x = B/A =	
5. Eleocharis compressa	10	No	FACW	' ' '		
6. Sesbania drummondii		No	FACW	✓ 2 - Dominance Te	Hydrophytic Vegetation	
7. Carex brevior	_ 40	No	FAC	3 - Prevalence Inc		
8. Phanopyrum gymnocarpon	_ 10	No	OBL		Adaptations <sup>1</sup> (Provide supp	ortina
9	-			data in Remark	ks or on a separate sheet)	orang
10				Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain	1)
Woody Vine Stratum (Plot size: 30'	210	= Total Co	ver	<sup>1</sup> Indicators of hydric so	oil and wetland hydrology m	uet
1. Smilax rotundifolia	10	Yes	FAC		sturbed or problematic.	ust
2.				Hydrophytic		
	10	= Total Co	ver	Vegetation	,	
% Bare Ground in Herb Stratum				Present? Y	es No	
Remarks:						

Depth	Matrix			dox Featur			_	
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>		Texture	Remarks
0-1	10 YR 6/4	60	10 YR 6/1	15	D	M	Sandy clay	
			10 YR 6/8	25	С	M		
1-12	5 GY-6	60	10 YR 6/8	30	С	M	Clay	
			5 YR 4/6	10	C	М		
				-				
			-					
-								
			=Reduced Matrix,			ted Sand C		PL=Pore Lining, M=Matrix.
•		ticable to al	I LRRs, unless oth					roblematic Hydric Soils <sup>3</sup> :
Histoso	pipedon (A2)		_	y Gleyed M y Redox (S	,			A9) ( <b>LRR I, J</b> ) e Redox (A16) ( <b>LRR F, G, H</b> )
_	listic (A3)			ed Matrix	-			e (S7) (LRR G)
	en Sulfide (A4)			y Mucky M	` '	)		Depressions (F16)
	d Layers (A5) (LR	R F)	✓ Loam	y Gleyed N	/atrix (F2)	, )	(LRR H	outside of MLRA 72 & 73)
	uck (A9) (LRR F, 0			eted Matrix			Reduced Ve	
Deplete	d Below Dark Surf	ace (A11)	_	x Dark Sur	, ,			Material (TF2)
	ark Surface (A12)			eted Dark S	•	7)		v Dark Surface (TF12)
	Mucky Mineral (S1			x Depressi	. ,	= 4.0\		in in Remarks)
_	Mucky Peat or Pea		. ,	Plains Dep		-		drophytic vegetation and
5 cm M	ucky Peat or Peat	(S3) (LRR F	) (1	MLRA 72 8	. /3 OT LR	KH)		ology must be present, bed or problematic.
Type: Depth (in	iches):						Hydric Soil Pres	ent? Yes <u>√</u> No
YDROLO	GY							
Wetland Hy	drology Indicator	rs:		2	-			
Primary Indi	cators (minimum c	of one require	ed; check all that ar	oply)			Secondary Inc	licators (minimum of two required)
✓ Surface	Water (A1)		Salt Cru	ıst (B11)			Surface S	oil Cracks (B6)
High W	ater Table (A2)		Aquatic	Invertebra	tes (B13)		Sparsely	Vegetated Concave Surface (B8)
✓ Saturat	ion (A3)			en Sulfide (				Patterns (B10)
Water N	//arks (B1)			ason Water		•		Rhizospheres on Living Roots (C3
Sedime	nt Deposits (B2)			d Rhizosph		iving Roots		
	posits (B3)			e not tilled	•			Burrows (C8)
	at or Crust (B4)			ce of Redu		C4)		Visible on Aerial Imagery (C9)
_	posits (B5)		Thin Mu					nic Position (D2)
	ion Visible on Aeri		37) Other (E	Explain in F	Remarks)			ral Test (D5)
	Stained Leaves (B9	3)					Frost-Hea	ve Hummocks (D7) (LRR F)
Field Obse	rvations:	,			lnknovu			
	ter Present?	Yes <u></u> ✓	No Depth	(inches): _	MOININ	<u>'</u>		
Water Table	Present?		No <u>✓</u> Depth			—		
Saturation F		Yes <u></u> ✓	No Depth	(inches):	ourrace	We	tland Hydrology Pre	sent? Yes ✓ No
Describe Re	pillary fringe) ecorded Data (stre	am gauge, m	nonitoring well, aeri	al photos,	previous i	nspections	), if available:	
Pomorico:								
Remarks:								

Project/Site: 130 Environmental Park		City/County	Lockhai	rt/Caldwell	Sampling Date: <u>06/20/2013</u>
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP6
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Depression					/e Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: HeC2 - Heiden clay, 3 to 5 percei					
Are climatic / hydrologic conditions on the site typical for thi					
, ,					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology s					· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology I SUMMARY OF FINDINGS - Attach site map			-	eeded, explain any answe	·
SOMMARY OF FINDINGS - Attach site map	Silowing	Sampini	g point i		, important leatures, etc.
	lo	ls th	e Sampled	Area	
	lo	with	in a Wetlar	nd? Yes	No <u>√</u>
	10				
Remarks:					
VEGETATION – Use scientific names of plan	nte.				
VEGETATION – Use scientific frames of plan	Absolute	Dominant	Indicator	Dominance Test work	rehoot:
Tree Stratum (Plot size: 30'		Species?		Number of Dominant S	
1. Quercus stellata	10	Yes	FACU	That Are OBL, FACW,	or FAC
2. Ulmus crassifolia	30	Yes	FAC	(excluding FAC-):	<u>5</u> (A)
3				Total Number of Domin	•
4				Species Across All Stra	ata: 6 (B)
Sapling/Shrub Stratum (Plot size: 15' )	40	= Total Co	ver	Percent of Dominant S	
Sapling/Shrub Stratum (Plot size: 15' )  1. Ulmus crassifolia	5	Yes	FAC	That Are OBL, FACW,	or FAC: 83 (A/B)
2				Prevalence Index wor	ksheet:
3.				Total % Cover of:	Multiply by:
4				OBL species	x 1 =
5.					x 2 =
	5	= Total Co	ver	1	x 3 =
Herb Stratum (Plot size: 5' )					x 4 =
1. Sesbania drummondii	40	Yes	FACW	UPL species	
2. Cyperus polystachyos	_ 50	Yes	FACW	Column Totals:	(A) (B)
3. Iva annua		No	FAC	Prevalence Index	c = B/A =
4				Hydrophytic Vegetati	
5				1 - Rapid Test for	Hydrophytic Vegetation
6				✓ 2 - Dominance Test	st is >50%
7				3 - Prevalence Ind	ex is ≤3.0 <sup>1</sup>
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
910.				1	s or on a separate sheet)
10.	100	= Total Co	ver	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		. 10141 00	,		il and wetland hydrology must
1. Smilax rotundifolia	5	Yes	FAC	be present, unless dist	urbed or problematic.
2	_			Hydrophytic	
00 Barrier County in Hart Street 80	5	= Total Co	ver	Vegetation Present? Ye	es No
% Bare Ground in Herb Stratum 80					
Tree and sapling/shrub on perimeter of depression					
1.00 and caping of the off point out of depression					

Donth						01 00	n the absence of indicators.)	
Depth (inches)	Matrix Color (moist)		Redo	ox Feature %	SType <sup>1</sup>	_Loc²	Texture Remarks	
	10 YR 5/1		R 5/8	40	C	M	Clay	
<del></del>	10 11(0)1					-		
	ncentration, D=Dep					ed Sand G		
Hydric Soil In	ndicators: (Applic	able to all LRR					Indicators for Problematic Hydric Soils	s³:
Histosol (/				Gleyed M			1 cm Muck (A9) (LRR I, J)	
	ipedon (A2)			Redox (S			Coast Prairie Redox (A16) (LRR F, C	<b>5, H</b> )
Black Hist	, ,			d Matrix (	,		Dark Surface (S7) (LRR G)	
	n Sulfide (A4) Layers (A5) ( <b>LRR</b> l	E)		Mucky Mi Gleyed M			High Plains Depressions (F16) (LRR H outside of MLRA 72 & 7	3)
_	ck (A9) (LRR F, G,	•	✓ Deplete	-			Reduced Vertic (F18)	•)
_	Below Dark Surfac	-		Dark Surf	-		Red Parent Material (TF2)	
	rk Surface (A12)	, ,		ed Dark Si		)	Very Shallow Dark Surface (TF12)	
Sandy Mu	ucky Mineral (S1)			Depression			Other (Explain in Remarks)	
	ucky Peat or Peat			-	-		<sup>3</sup> Indicators of hydrophytic vegetation and	
5 cm Muc	cky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	RA 72 &	73 of LRI	( H)	wetland hydrology must be present,	
Depte de la la	(if muses and):			-			unless disturbed or problematic.	
	ayer (if present):							
Type:							Hudria Call Danas and No. /	
	hes):						Hydric Soil Present? Yes ✓ No	
Remarks:								
HYDROLOG	GY	-						
	GY rology Indicators:	:						
Wetland Hydr			eck all that app	ly)			Secondary Indicators (minimum of two	required)
Wetland Hydr Primary Indica	rology Indicators:		eck all that app				Secondary Indicators (minimum of two  ✓ Surface Soil Cracks (B6)	required)
Wetland Hydr Primary Indica Surface W	rology Indicators: ators (minimum of o Vater (A1)			t (B11)	es (B13)		,	
Wetland Hydr Primary Indica Surface W	rology Indicators: ators (minimum of o Water (A1) er Table (A2)		Salt Crust	t (B11) overtebrate			✓ Surface Soil Cracks (B6)	
Wetland Hydr Primary Indica Surface W High Wate	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3)		Salt Crust	t (B11) overtebrate Sulfide C	dor (C1)	)	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf	ace (B8)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma	rology Indicators: ators (minimum of o Vater (A1) er Table (A2) n (A3)		Salt Crusi Aquatic Ir Hydrogen	t (B11) overtebrate Sulfide C on Water	dor (C1) Γable (C2		<ul> <li>✓ Surface Soil Cracks (B6)</li> <li>✓ Sparsely Vegetated Concave Surf</li> <li>_ Drainage Patterns (B10)</li> <li>_ Oxidized Rhizospheres on Living R</li> </ul>	ace (B8)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma	rology Indicators: ators (minimum of one Water (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2)		Salt Crust Aquatic Ir Hydrogen Dry-Seas Oxidized	t (B11) overtebrate Sulfide C on Water	dor (C1) Γable (C2 eres on Li		<ul> <li>✓ Surface Soil Cracks (B6)</li> <li>✓ Sparsely Vegetated Concave Surf</li> <li>_ Drainage Patterns (B10)</li> <li>_ Oxidized Rhizospheres on Living R</li> </ul>	ace (B8)
Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Water (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2)		Salt Crust Aquatic Ir Hydrogen Dry-Seas Oxidized	t (B11) nvertebrate Sulfide C on Water Rhizosphe not tilled	dor (C1) Fable (C2 eres on Li	ving Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf — Drainage Patterns (B10) — Oxidized Rhizospheres on Living R (C3) (where tilled)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Water (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)		Salt Crust Aquatic Ir Hydrogen Dry-Seas Oxidized (where	t (B11) nvertebrate Sulfide Coon Water Rhizosphe not tilled of Reduce	dor (C1) Fable (C2 eres on Li <sup>e</sup> od Iron (C	ving Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf — Drainage Patterns (B10) — Oxidized Rhizospheres on Living F (C3) (where tilled) — Crayfish Burrows (C8)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo	rology Indicators: ators (minimum of one Water (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4)	one required; ch	Salt Crust Aquatic Ir Hydrogen Dry-Seas ✓ Oxidized (where Presence	t (B11) avertebrate Sulfide Con Water Rhizosphe not tilled of Reduce	dor (C1) Fable (C2 eres on Live ed Iron (C) (C7)	ving Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf  Drainage Patterns (B10)  Oxidized Rhizospheres on Living F  (C3)  (where tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Image	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	rology Indicators: ators (minimum of on Water (A1) er Table (A2) in (A3) arks (B1) it Deposits (B2) osits (B3) it or Crust (B4) osits (B5)	one required; ch	Salt Crust Aquatic Ir Hydrogen Dry-Sease ✓ Oxidized (where Presence Thin Muc	t (B11) avertebrate Sulfide Con Water Rhizosphe not tilled of Reduce	dor (C1) Fable (C2 eres on Live ed Iron (C) (C7)	ving Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo	rology Indicators: ators (minimum of or Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial ained Leaves (B9)	one required; ch	Salt Crust Aquatic Ir Hydrogen Dry-Sease ✓ Oxidized (where Presence Thin Muc	t (B11) avertebrate Sulfide Con Water Rhizosphe not tilled of Reduce	dor (C1) Fable (C2 eres on Live ed Iron (C) (C7)	ving Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living R (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta	rology Indicators: ators (minimum of orwater (A1) er Table (A2) er (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) er Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ring Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living R (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta	rology Indicators: ators (minimum of orwater (A1) er Table (A2) er (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) er Visible on Aerial ained Leaves (B9) ations: r Present?	one required; che	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ring Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living R (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5)	ace (B8) Roots (C3)
Wetland Hydr Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water	rology Indicators: ators (minimum of or Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)	Salt Crust Aquatic Ir Hydrogen Dry-Sease VOxidized (where Presence Thin Muci Other (Ex	t (B11) nvertebrate Sulfide Con Water Rhizosphe not tilled of Reduce k Surface plain in Re	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ring Roots	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living R (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5)	ace (B8)  Roots (C3)  ry (C9)  R F)
Wetland Hydr Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of orwater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)  /es No _ /es No _ /es No _	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re nches): nches): nches):	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ving Roots 4) Wet	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LR	ace (B8)  Roots (C3)  ry (C9)  R F)
Wetland Hydr Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of or Nater (A1) er Table (A2) n (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) n Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)  /es No _ /es No _ /es No _	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re nches): nches): nches):	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ving Roots 4) Wet	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LR	ace (B8)  Roots (C3)  ry (C9)  R F)
Wetland Hydr Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of orwater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)  /es No _ /es No _ /es No _	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re nches): nches): nches):	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ving Roots 4) Wet	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LR	ace (B8)  Roots (C3)  ry (C9)  R F)
Wetland Hydr Primary Indica Surface W High Water Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of orwater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)  /es No _ /es No _ /es No _	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re nches): nches): nches):	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ving Roots 4) Wet	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LR	ace (B8)  Roots (C3)  ry (C9)  R F)
Wetland Hydr Primary Indica Surface W High Wate Saturation Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundation Water-Sta Field Observa Surface Water Water Table P Saturation Pre (includes capil	rology Indicators: ators (minimum of orwater (A1) er Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) in Visible on Aerial ained Leaves (B9) ations: r Present?	Imagery (B7)  /es No _ /es No _ /es No _	Salt Crust Aquatic Ir Hydrogen Dry-Seas: Oxidized (where Presence Thin Muct Other (Ex	t (B11) nvertebrate Sulfide Co on Water Rhizosphe not tilled of Reduce k Surface plain in Re nches): nches): nches):	dor (C1) Fable (C2 eres on Li ed Iron (C (C7) emarks)	ving Roots 4) Wet	✓ Surface Soil Cracks (B6) ✓ Sparsely Vegetated Concave Surf Drainage Patterns (B10) Oxidized Rhizospheres on Living F (C3) (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5) Frost-Heave Hummocks (D7) (LR	ace (B8)  Roots (C3)  ry (C9)  R F)

Project/Site: 130 Environmental Park		City/Cour	<sub>nty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/20/201	13
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP7	
Investigator(s): Troegle, Josh & Littleton, Brandyn					, camping conta	
Landform (hillslope, terrace, etc.): Depression					/e olana (olana los)	1
Subregion (LRR): J - Southwestern Prairies						3
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 perce						
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Yes	✓ No	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrologys	significantly	disturbed	d? Are "	'Normal Circumstances"	present? Yes ✓ No	
Are Vegetation, Soil, or Hydrology r	naturally pro	blematic	? (If ne	eded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site map				ocations, transects	s, important features, e	tc.
Hydrophytic Vegetation Present? Yes N	lo √		4- 0			
Hydric Soil Present? Yes ✓ N		- 1	the Sampled	nd? Yes	No. J	
Wetland Hydrology Present? Yes ✓ N		<b>w</b>	itnin a wetiar	na? res	NO <u>*</u>	
Remarks:					- 40	
VEGETATION – Use scientific names of plan	its.					
- 30'			ant Indicator	Dominance Test work	ksheet:	
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant S		
1				That Are OBL, FACW, (excluding FAC-):	0 (A)	)
2					` ,	,
3				Total Number of Domin Species Across All Stra	0	
4				opedico / toross / tir ott	(D)	
Sapling/Shrub Stratum (Plot size: 15'		= Total C	Cover	Percent of Dominant S That Are OBL, FACW,		B١
1. Prosopis glandulosa	75	Yes	FACU	mar Are Obt, i Aovi,	(A)	٠,
2. Ulmus crassifolia	2	No	FAC	Prevalence Index wo	rksheet:	
3.					Multiply by:	
4				1	x 1 =	
5.				1	x 2 =	
	77	= Total (	Cover		x 3 =	
Herb Stratum (Plot size: 5'					x 4 =	
1. Rottboellia cochinchinensis	95	Yes		UPL species		
2. Carex brevior	25	No	FAC	Column Totals:	(A)(B	3)
3. Sporobolus compositus		No	NI	Prevalence Index	x = B/A =	
4				Hydrophytic Vegetati		
5					Hydrophytic Vegetation	
6				2 - Dominance Te		
7				3 - Prevalence Ind		
8					Adaptations <sup>1</sup> (Provide supporting	na
9	- ——			data in Remark	ks or on a separate sheet)	9
10	140			Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size: 30'	140	= Total (	Cover	<sup>1</sup> Indicators of hydric so	oil and wetland hydrology must	
1. a				be present, unless dist		
				Hydrophytic		
2		= Total (	Cover	Vegetation	,	
% Bare Ground in Herb Stratum 10		, iolai (		Present? Ye	es No	
Remarks:						
Mesquite on perimeter of depression.						

Depth (inches)	Matrix		Red	lox Feature	es		n the absence of i	
0.4	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 3/1	85	5 YR 6/8	15	С	M/PL	Clay	
4-12	10 YR 4/2	70	5 YR 6/8	10	C	M/PL	Clay	
	10YR 5/2	20						
	1011(3/2						-	
1			5				2, 2,	5. 5
	Concentration, D=De					ed Sand G		n: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
•	I Indicators: (Appl	icable to all						•
Histoso	, ,			Gleyed M Redox (S				(A9) (LRR I, J) rie Redox (A16) (LRR F, G, H)
	Epipedon (A2) Histic (A3)			ed Matrix (				ce (S7) (LRR G)
_	en Sulfide (A4)			Mucky Mi	,		· · · · · ·	Depressions (F16)
	ed Layers (A5) (LRR	R F)		Gleyed M				outside of MLRA 72 & 73)
1 cm M	luck (A9) (LRR F, G	, H)		ted Matrix			Reduced V	ertic (F18)
	ed Below Dark Surfa	ice (A11)	✓ Redox					t Material (TF2)
	Dark Surface (A12)			ted Dark S		)		ow Dark Surface (TF12)
_ ,	Mucky Mineral (S1)		_	Depression	, ,	46)	` .	lain in Remarks)
	Mucky Peat or Peat (			LRA 72 &				ydrophytic vegetation and drology must be present,
5 cm iv	lucky real of real (	33) ( <b>LKK</b> F)	(194	LIVA 12 G	73 OI LIKE	. 11)	•	urbed or problematic.
Restrictive	Layer (if present):							
• • •	nches):						Hydric Soil Pre	sent? Yes / No
Remarks:								
remains.								
YDROLO								
, DIVOL	OGY							
	OGY ydrology Indicators	s:				19) 101		
Wetland H			d; check all that ap	ply)		170 181	Secondary In	ndicators (minimum of two required
Wetland H	ydrology Indicators licators (minimum of		d; check all that ap					ndicators (minimum of two required Soil Cracks (B6)
Wetland H	ydrology Indicators licators (minimum of e Water (A1)		Salt Crus	st (B11)	es (B13)	1706-1701	Surface	Soil Cracks (B6)
Wetland H	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2)		Salt Crus	st (B11) Invertebrat		10.00	Surface Sparsely	
Wetland Hy Primary Ind Surface High W	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2)		Salt Crus Aquatic   Hydroge	st (B11) Invertebrat	dor (C1)		Surface Sparsely Drainage	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Wetland History Ind Surface High W Satural	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2) lion (A3) Marks (B1)		Salt Crus Aquatic   Hydroge	st (B11) Invertebrat n Sulfide C son Water	odor (C1) Table (C2)		Surface Sparsely Drainage Oxidized	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Wetland High Water   Water   Sedime	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2) tion (A3)		Salt Crus Aquatic   Hydroge Dry-Seas Oxidized	st (B11) Invertebrat n Sulfide C son Water	odor (C1) Table (C2) eres on Liv		Surface Sparsely Drainage Oxidized (C3) (where	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2) ltion (A3) Marks (B1) ent Deposits (B2)		Salt Crus Aquatic   Hydroge Dry-Sea: ✓ Oxidized (where	st (B11) Invertebrat n Sulfide C son Water I Rhizosph	Odor (C1) Table (C2) eres on Liv	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 e tilled)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3)		Salt Crus Aquatic   Hydroge Dry-Sea: ✓ Oxidized (where	st (B11) Invertebrate In Sulfide Coson Water I Rhizosphe I not tilled I e of Reduce	Odor (C1) Table (C2) eres on Liv ) ed Iron (C	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M	ydrology Indicators iicators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4)	one required	Salt Crus Aquatic   Hydroge Dry-Seas Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe I not tilled I of Reduct I Kenner	Odor (C1) Table (C2) eres on Liv  ) ed Iron (C (C7)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie ✓ Geomore	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Hilled) Burrows (C8) On Visible on Aerial Imagery (C9)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M Iron De	ydrology Indicators licators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5)	one required	Salt Crus Aquatic   Hydroge Dry-Seas Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe I not tilled I of Reduct I Kenner	Odor (C1) Table (C2) eres on Liv  ) ed Iron (C (C7)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturation Geomor FAC-Ne	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Hilled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M Iron De Inunda Water-	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9)	one required	Salt Crus Aquatic   Hydroge Dry-Seas Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe I not tilled I of Reduct I Kenner	Odor (C1) Table (C2) eres on Liv  ) ed Iron (C (C7)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturation Geomor FAC-Ne	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Filled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2) Utral Test (D5)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M Iron De Inunda Water- Field Obse	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) flat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) irvations:	I Imagery (B	Salt Crus Aquatic   Hydroge Dry-Seas Oxidized	st (B11) Invertebrat In Sulfide C son Water I Rhizosphe I not tilled I of Reduct I Surface I Reduct I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturation Geomor FAC-Ne	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Filled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2) Utral Test (D5)
Wetland Hyprimary Ind Surface High W Saturar Water I Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Wa	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present?	I Imagery (B	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide C son Water I Rhizosphe I not tilled I of Reduct I Surface I Reduct I Surface I Surface I Surface I Reduct I Surface I Surfa	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturation Geomor FAC-Ne	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Filled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2) Utral Test (D5)
Wetland Hy Primary Ind Surface High W Satural Water I Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /ater or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present?	I Imagery (B	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In Reduce I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturation FAC-Ne Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Filled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2) Utral Test (D5)
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table Saturation I (includes ca	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present? Present? apillary fringe)	I Imagery (B: )  Yes Yes Yes	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In not tilled I con tilled I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots  4)  Wet	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie Geomor FAC-Ne Frost-He	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patterns (C8) Patterns (C9) Pat
Wetland Hy Primary Ind Surface High W Saturat Water Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table Saturation I	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present?	I Imagery (B: )  Yes Yes Yes	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In not tilled I con tilled I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots  4)  Wet	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie Geomor FAC-Ne Frost-He	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patterns (C8) Patterns (C9) Pat
Wetland Hy Primary Ind Surface High W Saturat Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table Saturation I (includes ca	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present? Present? apillary fringe)	I Imagery (B: )  Yes Yes Yes	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In not tilled I con tilled I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots  4)  Wet	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie Geomor FAC-Ne Frost-He	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patterns (C8) Patterns (C9) Pat
Wetland Hy Primary Ind Surface High W Saturat Water I Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table Saturation I	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present? Present? apillary fringe)	I Imagery (B: )  Yes Yes Yes	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In not tilled I con tilled I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots  4)  Wet	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie Geomor FAC-Ne Frost-He	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patterns (C8) Patterns (C9) Pat
Vetland Hyrimary Ind Surface High W Satural Sedime Drift De Algal M Iron De Inunda Water- Field Obse Surface Water Table Saturation I includes ca	ydrology Indicators icators (minimum of e Water (A1) /ater Table (A2) tion (A3) Marks (B1) ent Deposits (B2) eposits (B3) /at or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9) ervations: ater Present? e Present? Present? apillary fringe)	I Imagery (B: )  Yes Yes Yes	Salt Crus Aquatic   Hydroge Dry-Sea: Oxidized	st (B11) Invertebrat In Sulfide Coon Water I Rhizosphe In not tilled I con tilled I	Odor (C1) Table (C2) eres on Liv ) ed Iron (C (C7) emarks)	ing Roots  4)  Wet	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatie Geomor FAC-Ne Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (Caetilled) Burrows (C8) On Visible on Aerial Imagery (C9) Phic Position (D2) Lutral Test (D5) Peave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Count	v: Lockhai	rt/Caldwell	Sampling Date:	06/20/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
Investigator(s): Troegle, Josh & Littleton, Brandy						
Landform (hillslope, terrace, etc.): Floodplain			=		ve si	ne (%)· 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaB - Mabank loam, 1 to 3 per				NWI classifi	_	1111. <u>147.12 00</u>
Are climatic / hydrologic conditions on the site typical for						
Are Vegetation, Soil, or Hydrology				'Normal Circumstances"		No
Are Vegetation, Soil, or Hydrology	_ naturally pro	blematic?	(If ne	eded, explain any answ	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	p showing	sampli	ng point l	ocations, transect	s, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes ✓	No					
Hydric Soil Present? Yes	No ✓		he Sampled		/	
Wetland Hydrology Present? Yes	No <u>√</u>	wit	hin a Wetlar	nd? Yes	No <u>√</u>	
Remarks:				-		
VIOLETATION III						
VEGETATION – Use scientific names of pla		D i	A 11:4	I D		-
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator Status	Dominance Test wor  Number of Dominant S		
1. Maclura pomifera	15	Yes	FACU	That Are OBL, FACW,	or FAC	
2. Ulmus crassifolia	10	Yes	FAC	(excluding FAC-):	2	(A)
3				Total Number of Domi		
4				Species Across All Str	rata: <u>3</u>	(B)
15'	25	= Total Co	over	Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15' )				That Are OBL, FACW,	or FAC: <u>66</u>	(A/B)
1				Prevalence Index wo	rksheet:	
2. 3.				Total % Cover of:	Multip	ly by:
4.				OBL species	x 1 =	
5				FACW species		
		= Total Co	over	FAC species		
Herb Stratum (Plot size: 5'			710	FACU species		
1. Ambrosia trifida	<u> 98</u>	Yes	FAC	1	x 5 =	
2. Elymus virginicus		No	FACU	Column Totals:	(A)	(B)
3				Prevalence Inde	x = B/A =	
4				Hydrophytic Vegetat		
5				1 - Rapid Test for	Hydrophytic Vege	tation
6				✓ 2 - Dominance Te	st is >50%	
7				3 - Prevalence Inc		
8 9				4 - Morphological	Adaptations <sup>1</sup> (Prov	/ide supporting
10.				Problematic Hydro	ks or on a separate	
		= Total Co	over			
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric so be present, unless dis		
1. Smilax rotundifolia				be present, unless dis	turbed or problems	
2				Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 10		= Total C	over		es_✓ No_	
Remarks:						
Trees on perimeter of depression.						

Profile Desc	cription: (Describ	e to the depth ne				or confirm	n the absence of in	ndicators.)	
Depth	Matrix	0/		x Feature		_Loc <sup>2</sup>	Texture	Dame-I	
(inches)	Color (moist) 10 YR 3/1		Color (moist)	%	type	LOC	Clay	Remark	.5
0-10									
0-10	10 YR 5/3	15					Clay		
						_			
								_	
	oncentration, D=De					d Sand G		n: PL=Pore Lining	
Hydric Soil	Indicators: (Appl	icable to all LRR					Indicators for	Problematic Hydr	ic Soils³:
Histosol	(A1)			Gleyed Ma				(A9) ( <b>LRR I, J</b> )	
ı —	pipedon (A2)			Redox (S5	•			rie Redox (A16) (L	RR F, G, H)
	istic (A3)			d Matrix (S Mucky Mir	•			ce (S7) ( <b>LRR G</b> ) Depressions <b>(</b> F16	21
	en Sulfide (A4) d Layers (A5) ( <b>LRF</b>	) E\	_ ′	Gleyed M	٠,			outside of MLRA	,
	uck (A9) (LRR F, G	-		ed Matrix (			Reduced V		12 0 10)
	d Below Dark Surfa			Dark Surfa	•			t Material (TF2)	
Thick Da	ark Surface (A12)		Deplete	d Dark Su	ırface (F7)		Very Shallo	ow Dark Surface (T	F12)
	/lucky Mineral (S1)			Depressio				lain in Remarks)	
_	Mucky Peat or Pea		_		essions (F			ydrophytic vegetati	
5 cm Mu	ucky Peat or Peat (	S3) ( <b>LRR F</b> )	(ML	.RA 72 &	73 of LRR	(H)		drology must be pr	
Postrictive	Layer (if present):						unless dist	urbed or problema	iic.
Type:	aboa):						Hydric Soil Bro	sent? Yes	No ✓
	ches):						riyuric 3011 Fre	sent: les	
Remarks:									
HYDROLO	GY								
Wetland Hy	drology Indicator	s:							
Primary India	cators (minimum of	fone required; ch	eck all that app	ly)			Secondary In	ndicators (minimum	of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surface	Soil Cracks (B6)	
High Wa	ater Table (A2)		Aquatic In	vertebrate	es (B13)		Sparsely	Vegetated Conca	ve Surface (B8)
Saturation	on (A3)		Hydrogen	Sulfide O	dor (C1)		Drainage	e Patterns (B10)	
Water M	larks (B1)		Dry-Seaso	on Water	Table (C2)		Oxidized	l Rhizospheres on	Living Roots (C3)
Sedimer	nt Deposits (B2)		Oxidized I	Rhizosphe	eres on Liv	ing Roots	(C3) (where	e tilled)	
Drift De	posits (B3)		(where	not tilled	)			Burrows (C8)	
1— "	at or Crust (B4)				ed Iron (C4	1)		on Visible on Aeria	I Imagery (C9)
	oosits (B5)		Thin Muck				_	phic Position (D2)	
<u> </u>	on Visible on Aeria		Other (Ex	plain in Re	emarks)		_	utral Test (D5)	
	stained Leaves (B9	)					Frost-He	eave Hummocks (D	07) (LRR F)
Field Obser			/						
Surface Wat	er Present?	Yes No _							
Water Table	Present?	Yes No _							
Saturation P (includes ca	pillary fringe)	Yes No _					land Hydrology Pr	esent? Yes	No <u>✓</u>
Describe Re	corded Data (strea	m gauge, monito	ring well, aerial	photos, p	revious ins	pections),	, if available:		
Remarks:						100170			

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwe	Sampling Date: 06/20/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T9-DP9
Investigator(s): Troegle, Josh & Littleton, Brand					
Landform (hillslope, terrace, etc.): Floodplain					sve Slope (%): 4-8
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently floo				N/VI classi	
Are climatic / hydrologic conditions on the site typical for					
Are Vegetation, Soil, or Hydrology					" present? Yes ✓ No
				eeded, explain any ansv	
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site m					- La_
Line of the Manual Control of the Co	No	T			
	No ✓	- 1	s the Sampled		,
Wetland Hydrology Present? Yes	No ✓	V	vithin a Wetlai	nd? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of p	lants.				
201	Absolute		ant Indicator	Dominance Test wo	rksheet:
Tree Stratum (Plot size: 30'		Specie Yes	Status FAC	Number of Dominant	
1. Fraxinus pennsylvanica	10	No	FACW	That Are OBL, FACW (excluding FAC-):	/, or FAC (A)
2. Salix nigra	15	No	FACU	, , ,	
3. Melia azedarach	10	No	FAC	Total Number of Dom Species Across All St	_
4. <u>Ulmus crassifolia</u>				Openies / Noross / Air Or	(b)
Sapling/Shrub Stratum (Plot size: 15'		= Total	Cover	Percent of Dominant That Are OBL, FACW	
1. Ulmus crassifolia	50	Yes	FAC	That Are OBL, I ACV	(A/B)
2. Fraxinus pennsylvanica	15	Yes	FAC	Prevalence Index w	orksheet:
3. Melia azedarach	10	No	FACU	1	Multiply by:
4					x 1 =
5					x 2 =
51	75	= Total	Cover	1	x 3 =
Herb Stratum (Plot size: 5'	95	Voc	FAC		x 4 =
1. Ambrosia trifida 2. Elymus virginicus	3	Yes No	FAC	UPL species	x 5 =
	<u> </u>			Column Totals:	(A) (B)
3				Prevalence Inde	ex = B/A =
4				Hydrophytic Vegeta	tion Indicators:
5			10	1 - Rapid Test fo	r Hydrophytic Vegetation
6				✓ 2 - Dominance Telephone  2 - Dominance Telephone  4 - Dominance Telephone  4 - Dominance Telephone  4 - Dominance Telephone  5 - Dominance Telephone  6 - Dominance Telephone  7 - Dominance Telephone  7 - Dominance Telephone  7 - Dominance Telephone  8 - Dominance Telephone  8 - Dominance Telephone  9 - Dominance	
7. 8.				3 - Prevalence In	
9.					I Adaptations <sup>1</sup> (Provide supporting rks or on a separate sheet)
10.					rks or on a separate sneet) rophytic Vegetation <sup>1</sup> (Explain)
	98	= Total	Cover		
Woody Vine Stratum (Plot size: 30'					soil and wetland hydrology must sturbed or problematic.
1. Smilax rotundifolia		Yes	<u>FAC</u>	be present, unless dis	sturbed of problematic.
2				Hydrophytic	
W Pore Cround in Hoch Startum 25	20	= Total	Cover	Vegetation Present?	/es No
% Bare Ground in Herb Stratum 25  Remarks:					
Tomano.					

Profile Desc	ription: (Descri	e to the de	epth need	ed to docur	nent the i	ndicator	or confirm	n the absence of in	ndicators.)
Depth	Matrix				x Feature:		1.2	Tarabase	Demodes
(inches)	Color (moist) 10 YR 3/1	<u>%</u> 85	_ Colo	r (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-10			- —					Clay	
0-10	10 YR 5/3							Clay	
				-					
	oncentration, D=D						d Sand Gi		n: PL=Pore Lining, M=Matrix.
	Indicators: (App	licable to a	III LKKS, I						Problematic Hydric Soils <sup>3</sup> :
Histosol	. ,				Gleyed Ma				(A9) (LRR I, J)
Black Hi	oipedon (A2)				Redox (S5 d Matrix (S	•			ie Redox (A16) (LRR F, G, H) ce (S7) (LRR G)
_	n Sulfide (A4)				Mucky Mir	,			Depressions (F16)
	Layers (A5) (LR	R F)			Gleyed Ma	, ,			outside of MLRA 72 & 73)
_	ick (A9) (LRR F, C				d Matrix (I	. ,		Reduced V	,
Depleted	d Below Dark Surf	ace (A11)		Redox I	Dark Surfa	ce (F6)		Red Parent	Material (TF2)
_	ark Surface (A12)					ırface (F7)			ow Dark Surface (TF12)
ı —	lucky Mineral (S1				Depression		40)		lain in Remarks)
, —	Mucky Peat or Peat icky Peat or Peat			_ •		essions (F	,		drophytic vegetation and drology must be present,
5 cm iviu	icky Peat of Feat	(33) ( <b>LKK</b> )	,	(INIT	KA 12 0	73 OI LKK	п)		urbed or problematic.
Restrictive I	ayer (if present)	):							
Type:									
Depth (inc	ches):							Hydric Soil Pres	sent? Yes No ✓
Remarks:									
HYDROLO									
,	drology Indicator								
Primary Indic	ators (minimum c	of one requi	red; check					Secondary In	dicators (minimum of two required)
Surface	Water (A1)		_	_ Salt Crust					Soil Cracks (B6)
	ter Table (A2)		_	_ Aquatic In		` '			Vegetated Concave Surface (B8)
Saturation			_	_ Hydrogen					e Patterns (B10)
I —	arks (B1)		_	_ Dry-Seaso		, ,			Rhizospheres on Living Roots (C3
	t Deposits (B2)		_	_ Oxidized F	•		ing Roots	` '	e tilled)
	oosits (B3)				not tilled)				Burrows (C8)
	it or Crust (B4)		_	_ Presence		•	)		on Visible on Aerial Imagery (C9)
	osits (B5)	ol Images	(P7)	_ Thin Muck	,	,			ohic Position (D2) utral Test (D5)
	on Visible on Aeria tained Leaves (B9		D() _	_ Other (Exp	Janini Ke	marks)			ave Hummocks (D7) (LRR F)
Field Observ		······································						11031-116	ave Huminocks (D1) (ERRT)
		Vec	No 🗸	_ Depth (in	chee).				
Surface Water				Depth (in Depth (in					
Water Table			_	Depth (in				and Hydrology De	esent? Yes No <u>√</u>
Saturation Pi (includes cap		res	_ NO <u>*</u>	Depth (In	cries):	.qui.,	_ weti	and riyurology Pre	ssemi tes No 4
Describe Red	corded Data (stream	am gauge, i	monitoring	well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:									

Project/Site: 130 Environmental Park		City/Coun	<sub>ity:</sub> Lockhai	rt/Caldwell	Sampling Date: 06/21/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	Sampling Point: T9-DP10
Investigator(s): Troegle, Josh & Littleton, Brandyn		Section, 1	Township, Rai	nge: NA	
Landform (hillslope, terrace, etc.): Depression		Local reli	ief (concave, o	convex, none): Concav	/e Slope (%): 0-4
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: Ts - Tinn soils, frequently flooded				NWI classific	
Are climatic / hydrologic conditions on the site typical for this	time of yea	ar? Yes	✓ No	(If no, explain in R	Remarks.)
Are Vegetation, Soil, or Hydrology si	gnificantly	disturbed	? Are "	'Normal Circumstances" p	present? Yes ✓ No
Are Vegetation, Soil, or Hydrology na				eded, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS - Attach site map s				ocations, transects	s, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No.	`				
Hydric Soil Present? Yes ✓ No.			the Sampled		No
Wetland Hydrology Present? Yes ✓ No.		W	ithin a Wetlar	id? Yes <u>v</u>	NO
Remarks:					
VEGETATION – Use scientific names of plant	e		-	10	
VEGETATION - Ose scientific flames of plant		Domino	int Indicator	Dominance Test work	rehoot:
Tree Stratum (Plot size: 30'			Status	Number of Dominant S	
1				That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>2</u> (A)
3				Total Number of Domir	nant
4				Species Across All Stra	2(B)
Sapling/Shrub Stratum (Plot size: 30')		= Total C	Cover	Percent of Dominant S	
				That Are OBL, FACW,	or FAC: 100 (A/B)
1				Prevalence Index wor	ksheet:
3.				Total % Cover of:	
4.				OBL species	x 1 =
5.					x 2 =
201		= Total C	Cover		x 3 =
Herb Stratum (Plot size: 30')  1. Eleocharis palustris	60	Yes	OBL	1	x 4 =
2. Phyla lanceolata	20	No	FACW		x 5 = (A) (B)
3. Setaria parviflora	15	No	FAC	Column Totals.	(A) (B)
4. Iva annua	5	No	FAC	Prevalence Index	c = B/A =
5. Axonopus fissifolius	75	Yes	FAC	Hydrophytic Vegetation	on Indicators:
6. Carex brevior	10	No	FAC		Hydrophytic Vegetation
7. Cyperus setigerus	10	No	FAC	✓ 2 - Dominance Tes	
8				3 - Prevalence Ind	
9				data in Remark	Adaptations <sup>1</sup> (Provide supporting is or on a separate sheet)
10				I .	phytic Vegetation <sup>1</sup> (Explain)
20 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	195	= Total C	Cover	1 Indicators of hydric so	il and wetland hydrology must
Woody Vine Stratum (Plot size: 30')  1				be present, unless dist	
2.				Hydrophytic	
		= Total C	Cover	Vegetation	oo √ Na
% Bare Ground in Herb Stratum 5				Present? Ye	es No
Remarks:					

Profile Des	scription: (Describ	e to the de	pth needed to docu	ment the	indicator	or confir	rm the absence of indicators.)
Depth	Matrix			ox Featur	es1	1 - 2	- Touton Bounds
(inches)	Color (moist)	<u>%</u> 80	Color (moist) 5 YR 4/8	- <u>%</u> 20	Type <sup>1</sup>	Loc <sup>2</sup> M/PL	
0-10	10 YR 2/1						Clay
10-14	10 YR 4/1	40	10 YR 6/8	_ 25	_ <u>C</u>	M	Clay
10-14	10 YR 3/1	30					
						-	
			/I=Reduced Matrix, C			ed Sand G	Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soi	I Indicators: (App	licable to al	I LRRs, unless other	erwise no	ted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)			-	latrix (S4)		1 cm Muck (A9) (LRR I, J)
_	Epipedon (A2)			Redox (S			Coast Prairie Redox (A16) (LRR F, G, H)
	Histic (A3)			d Matrix	. ,		Dark Surface (S7) (LRR G)
	gen Sulfide (A4)	D. F.\			ineral (F1)		High Plains Depressions (F16)
	ed Layers (A5) ( <b>LR</b> I Nuck (A9) ( <b>LRR F, C</b>		-	ed Matrix	/latrix (F2)		(LRR H outside of MLRA 72 & 73)  Reduced Vertic (F18)
	ed Below Dark Surf		✓ Redox		. ,		Red Parent Material (TF2)
	Dark Surface (A12)	(*****)			Surface (F7	7)	Very Shallow Dark Surface (TF12)
	Mucky Mineral (S1)	)		Depressi	•	,	Other (Explain in Remarks)
	Mucky Peat or Pea		<b>G, H</b> ) High P	lains Dep	ressions (	F16)	<sup>3</sup> Indicators of hydrophytic vegetation and
5 cm M	lucky Peat or Peat	(S3) ( <b>LRR F</b>	) (M	LRA 72 &	73 of LR	RH)	wetland hydrology must be present,
		2000					unless disturbed or problematic.
Restrictive	Layer (if present)	:					
Type:							
Depth (i	nches):						Hydric Soil Present? Yes ✓ No
Remarks:							
HYDROLO	OGY						
	ydrology Indicator	·c ·					
			ed; check all that app	olv)			Secondary Indicators (minimum of two requir
	e Water (A1)	TONG TOGGIN	Salt Crus				Surface Soil Cracks (B6)
	/ater Table (A2)			nvertebra	es (B13)		Sparsely Vegetated Concave Surface (B
Satura			Hydroger		` '		Drainage Patterns (B10)
_	Marks (B1)				Table (C2	))	Oxidized Rhizospheres on Living Roots
_	ent Deposits (B2)		✓ Oxidized				
	eposits (B3)		_	not tilled			Crayfish Burrows (C8)
-	Mat or Crust (B4)		,		ed Iron (C	(4)	✓ Saturation Visible on Aerial Imagery (C9
	eposits (B5)		Thin Muc		,	,	Geomorphic Position (D2)
	tion Visible on Aeria	al Imagery (I					FAC-Neutral Test (D5)
	Stained Leaves (B9			,	,		Frost-Heave Hummocks (D7) (LRR F)
Field Obse	<u> </u>	,					
	ater Present?	Yes	No ✓ Depth (i	nches):			
Water Table			No ✓ Depth (i				
			No ✓ Depth (i			- 1	etland Hydrology Present? Yes ✓ No
Saturation (includes ca	apillary fringe)						
Describe R	ecorded Data (stream	am gauge, n	nonitoring well, aeria	photos,	previous in	spections	s), if available:
Remarks:							



Data Point 1
Post Oak Woods



Data Point 1
Post Oak Woods



Data Point 2 Sumpweed Depressions

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Data Point 2 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions

T9 - Page 2



Data Point 4
Riparian Woods (Cedar Elm/Oak



Data Point 4
Riparian Woods (Cedar Elm/Oak



Data Point 5 Lacustrine Fringe Wetlands

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Data Point 5 Lacustrine Fringe Wetlands



Data Point 6 Sumpweed Depressions



Data Point 7 Mesquite Woods

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Data Point 8 Floodplain Meadows



Data Point 8 Floodplain Meadows



Data Point 9 Riparian Woods (Green Ash/ Pecan)

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Data Point 9
Riparian Woods (Green Ash/ Pecan)



Data Point 10 Floodplain Meadows



Data Point 10 Floodplain Meadows

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Project/Site: 130 Environmental Park		City/Count	y: Lockha	rt/Caldwell	Sampling Date: 07/10/2013
Applicant/Owner: 130 Environmental Park, LLC		•			Sampling Point: T10-DP1
Investigator(s): Troegle, Josh & Littleton, Brandyn					
Landform (hillslope, terrace, etc.): Floodplain			•	-	Slope (%): 0-1
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: CrD3 - Crockett soils, 3-8% slo					
Are climatic / hydrologic conditions on the site typical for thi					
Are Vegetation, Soil, or Hydrology					oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map				ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? YesN	Jo √				
Hydric Soil Present? Yes N	lo ✓		he Sampled		N = 1
Wetland Hydrology Present? Yes N	lo ✓	wit	hin a Wetlar	nd? Yes	No <u>√</u>
Remarks:					
VEGETATION – Use scientific names of plan	nts.				
Tree Stratum (Plot size: 30'	Absolute		nt Indicator	Dominance Test work	sheet:
1. Quercus fusiformis	% Cover	Yes	? Status UPL	Number of Dominant S	
2. Ulmus crassifolia	60	Yes	FAC	That Are OBL, FACW, (excluding FAC-):	3 (A)
3. Melia azedarach	25	No	FACU		
4. Celtis laevigata	10	No	FAC	Total Number of Domin Species Across All Stra	7
4. Cemo tucrigum	155	= Total Co			
Sapling/Shrub Stratum (Plot size: 15'		- Total Ct	OVEI	Percent of Dominant Sp That Are OBL, FACW,	
1. Ulmus crassifolia	2	No	FAC		
2. Melia azedarach	30	Yes	FACU	Prevalence Index wor	
3. Ilex vomitoria	30	Yes	FAC	Total % Cover of:	
4					x1=
5			- ——		x 2 =
Herb Stratum (Plot size: 5' )	62	= Total Co	over	1	x 3 = x 4 =
Hero Stratum (Plot size: 5	75	Yes	FAC		x5=
2. Eupatorium incarnatum	25	Yes	NI	' '	(A) (B)
3 Ambrosia artemisiifolia	10	No	FACU	Column Fotalo.	()/
4				Prevalence Index	= B/A =
5				Hydrophytic Vegetation	on Indicators:
6					Hydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8.				3 - Prevalence Inde	
9.					Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)
10.					phytic Vegetation <sup>1</sup> (Explain)
201	110	= Total Co	over		
Woody Vine Stratum (Plot size: 30'	40	W	EACH	'Indicators of hydric soi be present, unless disti	il and wetland hydrology must
1. Smilax bona-nox	40	Yes	FACU		and or problemato,
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	40	= Total Co	over		s No
Remarks:			4.24	1	

Profile Description: (D	escribe to the depth ne	eded to document the indicator or o	confirm the absence of in	dicators.)
	Matrix	Redox Features		
(inches) Color (i	moist) % C	olor (moist) % Type <sup>1</sup> I	_oc <sup>2</sup> Texture	Remarks
l ——				<del></del>
———				
		uced Matrix, CS=Covered or Coated S		: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	(Applicable to all LRRs	s, unless otherwise noted.)	Indicators for P	Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)		Sandy Gleyed Matrix (S4)	1 cm Muck	(A9) ( <b>LRR I, J</b> )
Histic Epipedon (A2	)	Sandy Redox (S5)		e Redox (A16) ( <b>LRR F, G, H</b> )
Black Histic (A3)		Stripped Matrix (S6)		e (S7) (LRR G)
Hydrogen Sulfide (A	•	Loamy Mucky Mineral (F1)		Depressions (F16)
Stratified Layers (A5		Loamy Gleyed Matrix (F2)	•	outside of MLRA 72 & 73)
1 cm Muck (A9) (LR Depleted Below Dar		Depleted Matrix (F3) Redox Dark Surface (F6)	Reduced Ve	ertic (F18) Material (TF2)
Depleted Below Dail	, ,	Depleted Dark Surface (F7)		w Dark Surface (TF12)
Sandy Mucky Miner		Redox Depressions (F8)		ain in Remarks)
	or Peat (S2) (LRR G, H)	High Plains Depressions (F16)	, ,	drophytic vegetation and
5 cm Mucky Peat or		(MLRA 72 & 73 of LRR H)		rology must be present,
				rbed or problematic.
Restrictive Layer (if pro	esent):			
Туре:				
Depth (inches):			Hydric Soil Pres	ent? Yes No √
Remarks:				
Tromanio.				
				-
HYDROLOGY				
Wetland Hydrology Ind	icators:			
Primary Indicators (minir	num of one required; che	ck all that apply)	Secondary Inc	dicators (minimum of two required)
Surface Water (A1)		Salt Crust (B11)	Surface S	Soil Cracks (B6)
High Water Table (A	.2)	Aquatic Invertebrates (B13)		Vegetated Concave Surface (B8)
Saturation (A3)	,	Hydrogen Sulfide Odor (C1)		Patterns (B10)
Water Marks (B1)		Dry-Season Water Table (C2)		Rhizospheres on Living Roots (C3)
Sediment Deposits (	B2)	Oxidized Rhizospheres on Living		
Drift Deposits (B3)	,	(where not tilled)	` ,	Burrows (C8)
Algal Mat or Crust (E	34)	Presence of Reduced Iron (C4)		n Visible on Aerial Imagery (C9)
Iron Deposits (B5)	,	Thin Muck Surface (C7)	,	hic Position (D2)
l <del></del>	n Aerial Imagery (B7)	Other (Explain in Remarks)		tral Test (D5)
Water-Stained Leave				ave Hummocks (D7) (LRR F)
Field Observations:				are naminosis (B) (Entr)
Surface Water Present?	Vas No 🗸	Depth (inches):		
		Depth (inches):		
Water Table Present?		_	Madan di Li	
Saturation Present? (includes capillary fringe)		Depth (inches):	wetland Hydrology Pre	sent? Yes No ✓
		ng well, aerial photos, previous inspec	tions), if available:	
Remarks:				
Tomano.				

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockhai	rt/Caldwell	Sampling Date: <u>07/10/2013</u>
Applicant/Owner: 130 Environmental Park, LLC		-	-			Sampling Point: T10-DP2
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Floodplain						Slope (%); 0-1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaA - Mabank loam, 0-1% slo						cation: None available
Are climatic / hydrologic conditions on the site typical for this		ar? V	_			
Are Vegetation, Soil, or Hydrologys						present? Yes ✓ No
Are Vegetation, Soil, or Hydrology n					eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					· · · · · ·	-
		Т				
Hydrophytic Vegetation Present? Yes N	o <u>v</u>		Is the	e Sampled		,
Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N	· <del>V</del>		withi	n a Wetlar	nd? Yes	No_ <u>√</u>
Remarks:						
Tromano.						
VEGETATION - Use scientific names of plan	ts.					
201	Absolute			Indicator	Dominance Test wor	ksheet:
	% Cover				Number of Dominant S	
1					That Are OBL, FACW, (excluding FAC-):	, or FAC (A)
2						
3					Total Number of Domi Species Across All Str	4
4						
Sapling/Shrub Stratum (Plot size: 15'		- 100	ai Cov	ы	Percent of Dominant S That Are OBL, FACW,	Species or FAC: 25(A/B)
1						
2.					Prevalence Index wo	
3					Total % Cover of:	
4					1	x 1 =
5					4	x 2 =
5!		= Tota	al Cov	er	1	x 3 =
Herb Stratum (Plot size: 5'  1 Elymus virginicus	20	Yes		FAC	i .	x 4 =
2. Ambrosia artemisiifolia	20	Yes	_	FACU	UPL species	(A) (B)
3. Vernonia baldwinii	15	Yes		FACU	Coldilli Totals.	(A) (B)
4. Carex brevior	5	No		FAC	Prevalence Inde	x = B/A =
5			_		Hydrophytic Vegetat	ion Indicators:
6.					1 - Rapid Test for	Hydrophytic Vegetation
7					2 - Dominance Te	
8					3 - Prevalence Inc	
9						Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10.					1	ophytic Vegetation <sup>1</sup> (Explain)
	60	= Tota	al Cov	er	-	
Woody Vine Stratum (Plot size: 30'					Indicators of hydric so be present, unless dis	oil and wetland hydrology must
1. Rubus trivialis	30	Yes		FACU		turbed or problematic.
2					Hydrophytic Vegetation	
% Bare Ground in Herb Stratum	30	= Tota	al Cov	er		es No <u>√</u>
Remarks:					L	

Depth Matrix (inches) Color (moist)		Poden Fastin		// COMMI	the absence of ind	outor or,
THE THEST LANGE I THOUSE I	% Color (	Redox Feature moist) %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	100		. 700		Clay	Normania
0-10 10 11(2)						
<sup>1</sup> Type: C=Concentration, D=Deplet	tion, RM=Reduced	Matrix, CS=Covere	ed or Coate	d Sand Gr	rains. <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicab	ole to all LRRs, un	less otherwise no	ted.)		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histosol (A1)	_	_ Sandy Gleyed M	latrix (S4)		1 cm Muck (A	9) (LRR I, J)
Histic Epipedon (A2)	_	_ Sandy Redox (S	•			Redox (A16) ( <b>LRR F, G, H</b> )
Black Histic (A3)		_ Stripped Matrix (				(S7) (LRR G)
Hydrogen Sulfide (A4)		_ Loamy Mucky M				epressions (F16)
Stratified Layers (A5) (LRR F) 1 cm Muck (A9) (LRR F, G, H)		<ul><li>Loamy Gleyed N</li><li>Depleted Matrix</li></ul>			(LRR H o	utside of MLRA 72 & 73)
Depleted Below Dark Surface (		_ Redox Dark Sur			Red Parent N	. ,
Thick Dark Surface (A12)		Depleted Dark S				Dark Surface (TF12)
Sandy Mucky Mineral (S1)	_	_ Redox Depressi	. ,			n in Remarks)
2.5 cm Mucky Peat or Peat (S2	2) ( <b>LRR G, H</b> )	High Plains Dep	ressions (F	16)	<sup>3</sup> Indicators of hyd	rophytic vegetation and
5 cm Mucky Peat or Peat (S3)	(LRR F)	(MLRA 72 &	73 of LRR	H)		ology must be present,
	100				unless distur	oed or problematic.
Restrictive Layer (if present):						
Type:						,
Depth (inches):					Hydric Soil Prese	nt? Yes No <u>√</u>
Remarks:						
IYDROLOGY						
Wetland Hydrology Indicators:	e required; check a	Il that apply)			Secondary Indi	cators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one						cators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)		Salt Crust (B11)	res (B13)		Surface So	oil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)	_				Surface So Sparsely V	oil Cracks (B6) egetated Concave Surface (B8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	_	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide (	Odor (C1)		Surface So Sparsely V Drainage F	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)		Salt Crust (B11) Aquatic Invertebrat	Odor (C1) Table (C2)	ng Roots	Surface So Sparsely V Drainage F Oxidized F	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water	Odor (C1) Table (C2) eres on <b>L</b> ivi	ng Roots	Surface So Sparsely V Drainage F Oxidized F (C3) (where t	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	=	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph	Odor (C1) Table (C2) eres on <b>Li</b> vi I)	Ü	Surface So Sparsely V Drainage F Oxidized F (C3) (where to	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled	Odor (C1) Table (C2) eres on Livi I) ced Iron (C4	Ü	Surface So Sparsely V Drainage F Oxidized F (C3) (where to Crayfish B Saturation	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduc	Odor (C1) Table (C2) eres on Livi I) ced Iron (C4 (C7)	Ü	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation Geomorph	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct	Odor (C1) Table (C2) eres on Livi I) ced Iron (C4 (C7)	Ü	Surface Sc Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct	Odor (C1) Table (C2) eres on Livi I) ced Iron (C4 (C7)	Ü	Surface Sc Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) al Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9) Field Observations:		Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide C Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduc Thin Muck Surface Other (Explain in R	Odor (C1) Table (C2) eres on Livi I) ced Iron (C4 (C7) Remarks)	)	Surface Sc Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) al Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present?	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in F	Odor (C1) Table (C2) eres on Livi i) ced Iron (C4 (C7) Remarks)	)	Surface Sc Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) al Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present?	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	)	Surface So Sparsely \( \) Drainage \( \) Oxidized \( \) (C3) (where to \( \) Crayfish \( \) Saturation Geomorph FAC-Neuto Frost-Heave	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) currows (C8) Visible on Aerial Imagery (C9) dic Position (D2) al Test (D5) We Hummocks (D7) (LRR F)
Primary Indicators (minimum of one  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes Saturation Present? Yes (includes capillary fringe)	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	) Weti	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) hizospheres on Living Roots (C3 illed) urrows (C8) Visible on Aerial Imagery (C9) ic Position (D2) al Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present?	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	) Weti	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) currows (C8) Visible on Aerial Imagery (C9) dic Position (D2) al Test (D5) We Hummocks (D7) (LRR F)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes (includes capillary fringe) Describe Recorded Data (stream gates)	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	) Weti	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) currows (C8) Visible on Aerial Imagery (C9) dic Position (D2) al Test (D5) We Hummocks (D7) (LRR F)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	) Weti	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) currows (C8) Visible on Aerial Imagery (C9) dic Position (D2) al Test (D5) We Hummocks (D7) (LRR F)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Image Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream growth one)	agery (B7)	Salt Crust (B11) Aquatic Invertebrat Hydrogen Sulfide ( Dry-Season Water Oxidized Rhizosph (where not tilled Presence of Reduct Thin Muck Surface Other (Explain in Reduct) Depth (inches): Depth (inches): Depth (inches):	Odor (C1) Table (C2) eres on Livi i) sed Iron (C4 (C7) Remarks)	) Weti	Surface So Sparsely V Drainage F Oxidized F Crayfish B Saturation ✓ Geomorph FAC-Neutr Frost-Hear	oil Cracks (B6) egetated Concave Surface (B8) Patterns (B10) chizospheres on Living Roots (C3 illed) currows (C8) Visible on Aerial Imagery (C9) dic Position (D2) al Test (D5) We Hummocks (D7) (LRR F)



Data Point 1
Riparian Woods (Cedar Elm/Oak)



Data Point 1 Riparian Woods (Cedar Elm/Oak)



Data Point 2 Floodplain Meadows

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Data Point 2 Floodplain Meadows

Project/Site: 130 Environmental Park		City/Cour	nty: Lockha	rt/Caldwell	_ Sampling Date: 06/28/2013			
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T11-DP1			
					X Slope (%): 5			
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: FeE - Fett gravelly soils, 1 to					ication: None available			
Are climatic / hydrologic conditions on the site typical for								
Are Vegetation, Soil, or Hydrology significantly disturbed?   Are "Normal Circumstances" present? Yes   No								
Are Vegetation, Soil, or Hydrology				eeded, explain any answ				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes	No. ✓							
Hydric Soil Present? Yes			the Sampled		No <u>√</u>			
Wetland Hydrology Present? Yes	No ✓	\ w	ithin a Wetlar	na? res	NO <u>*</u>			
Remarks:		- Lucas						
Upland wooded area on west side of study area.								
VEGETATION – Use scientific names of pl	ants.							
Tree Stratum (Plot size: 30')	Absolute		ant Indicator	Dominance Test wor	ksheet:			
1. Quercus stellata	% Cover	Yes	s? Status FACU	Number of Dominant S				
1. Quercus sienau 2. Ulmus crassifolia	${10}$	No	FAC	That Are OBL, FACW (excluding FAC-):	, or FAC (A)			
3. Quercus marilandica	10	No	UPL	Total Number of Demi				
4.		-		Total Number of Domi Species Across All Str	_			
4.	80	= Total (	Cover					
Sapling/Shrub Stratum (Plot size: 151 )		, rotar t		Percent of Dominant S That Are OBL, FACW				
1. Ulmus crassifolia	10	Yes	FAC	December on Indonesia	-lh4			
2. Juniperus virginiana	5	No	UPL	Prevalence Index wo				
3. Mahonia trifoliolata	10	Yes	UPL UPL	1	Multiply by: x 1 =			
4. Prunus mexicana		No	UPL FAC		x 2 =			
5. <u>Ilex decidua</u>		No	FAC		x 3 =			
Herb Stratum (Plot size: 5')	35	= Total (	Cover	1	x 4 =			
1 Opuntia lindheimeri	5	Yes	UPL		x 5 =			
2.				1	(A)(B)			
3.								
4.					x = B/A =			
5				Hydrophytic Vegetat				
6				2 - Dominance Te	Hydrophytic Vegetation			
7				3 - Prevalence Inc				
8				_	Adaptations <sup>1</sup> (Provide supporting			
9				data in Remark	ks or on a separate sheet)			
10				Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size: 30')	5	= Total (	Cover	<sup>1</sup> Indicators of hydric se	oil and wetland hydrology must			
Woody Vine Stratum (Plot size: 30 )	10	Yes	FACU		sturbed or problematic.			
				Hydrophytic				
2	10	= Total (	Cover	Vegetation				
% Bare Ground in Herb Stratum 95				Present? Y	es No <u> </u>			
Remarks:								
Upland post oak woods. Hydrophytic vegetation	criterion is no	ot met.						

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Features							
(inches)	Color (moist)		olor (moist)	<u> </u>	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks			
0-10	10 YR 6/3	_ 100					Sand				
¹Type: C=C	oncentration, D=De	enletion RM=Red	uced Matrix C	S=Covered	or Coate	d Sand Gr	rains <sup>2</sup> t ocation:	: PL=Pore Lining, M=Matrix.			
	Indicators: (Appl							roblematic Hydric Soils <sup>3</sup> :			
Histosol				Gleyed Mat			1 cm Muck (	A9) ( <b>LRR I, J</b> )			
	pipedon (A2)			Redox (S5)	. ,			e Redox (A16) (LRR F, G, H)			
	stic (A3)		Strippe	d Matrix (S	6)		Dark Surface	e (S7) (LRR G)			
	en Sulfide (A4)			Mucky Min	, ,			Depressions (F16)			
_	d Layers (A5) (LRF			Gleyed Ma			(LRR H outside of MLRA 72 & 73)				
	ick (A9) (LRR F, G			d Matrix (F	,		Reduced Vertic (F18) Red Parent Material (TF2)				
	d Below Dark Surfa ark Surface (A12)	ice (A11)		Dark Surfa d Dark Sur							
_	Mucky Mineral (S1)			Depression			Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
	Mucky Peat or Pea		_	ains Depre	` '	16)	<sup>3</sup> Indicators of hydrophytic vegetation and				
_	icky Peat or Peat (			RA 72 & 7	3 of LRR	H)		rology must be present,			
							unless distur	rbed or problematic.			
	Layer (if present):										
Type: Ha											
Depth (in	ches): <u>10</u>						Hydric Soil Prese	ent? Yes No ✓			
Remarks:											
No hydric so	oil indicators obs	erved.									
HYDROLO	CV										
	drology Indicator		ack all that ann				Sacandan Ind	dicators (minimum of two required)			
	cators (minimum of	one required; che									
_	Water (A1)		Salt Crust Aquatic In	, ,	o /D12\			oil Cracks (B6) Vegetated Concave Surface (B8)			
	ater Table (A2)							Patterns (B10)			
	Saturation (A3) Hydrogen Sulfide Odor (C1)						_				
Water Marks (B1)											
_	posits (B3)			not tilled)	C5 011 E14	119 110010		Burrows (C8)			
	at or Crust (B4)		•	of Reduce	d Iron (C4	1)		n Visible on Aerial Imagery (C9)			
	posits (B5)			Surface (		• •		hic Position (D2)			
· —	on Visible on Aeria	l Imagery (B7)	Other (Ex					tral Test (D5)			
	tained Leaves (B9				,			ave Hummocks (D7) (LRR F)			
Field Obser		,									
Surface Wat		Yes No _•	Depth (in	ches):							
Water Table		Yes No _									
	_	Yes No _					and Hydrology Pres	sent? Yes No ✓			
Saturation P	oillary fringe)										
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:											
Remarks:											
Data point is	s on Floodplain 2	Zone A; howeve	r no other hyd	drology in	dicators	were obs	erved. Wetland hy	ydrology criterion is not met.			

Project/Site: 130 Environmental Park		City/Cou	unty: Lockh	art/Caldwell	Sampling Date: 07/10/2013	
•					_ Sampling Point: T11-DP2	
Investigator(s): Troegle, Josh & Littleton, Brandyn  Section, Township, Range: NA						
Landform (hillslope, terrace, etc.): Floodplain  Local relief (concave, convex, none): Concave  Slope (%): 0-3						
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: Ts - Tinn soils, frequently flood					ication: None available	
Are climatic / hydrologic conditions on the site typical for this			_			
Are Vegetation, Soil, or Hydrologys					present? Yes   No	
Are Vegetation, Soil, or Hydrology r				needed, explain any answ		
SUMMARY OF FINDINGS – Attach site map						
	No Is the Sampled Area					
Wetland Hydrology Present? Yes ✓ N	No within a Wetland? Yes ✓ No					
Remarks:						
VEGETATION - Use scientific names of plan	ts.					
7 00-1			nant Indicato		ksheet:	
Tree Stratum (Plot size: 30'			es? Status	<ul> <li>Number of Dominant :</li> <li>That Are OBL, FACW</li> </ul>		
1				(excluding FAC-);	, or FAC (A)	
3				─   Total Number of Domi	inant	
4.				Species Across All St	0	
		= Total	Cover	Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15' )				That Are OBL, FACW		
1. Fraxinus pennsylvanica	5 5	Yes	FAC	Prevalence Index wo	rksheet:	
2. Ulmus crassifolia	- —	Yes	FAC	Total % Cover of:		
3.				_	x 1 =	
4				FACW species	x 2 =	
5	10	= Total	Cover	FAC species	x 3 =	
Herb Stratum (Plot size: 5'				FACU species	x 4 =	
1. Eleocharis compressa	85	Yes	FACW		x 5 =	
2. Phyla lanceolata	20	No	FACW	_ Column Totals:	(A) (B)	
3. Xanthium strumarium	15	No	FAC	Prevalence Inde	ex = B/A =	
4. Axonopus fissifolius	15	No	FAC	Hydrophytic Vegetat		
5			_	1 - Rapid Test for	Hydrophytic Vegetation	
6				_	est is >50%	
7				3 - Prevalence Inc	dex is ≤3.0 <sup>1</sup>	
9					Adaptations <sup>1</sup> (Provide supporting	
10.					ks or on a separate sheet)	
	130	= Total	Cover		ophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size: 30'				<sup>1</sup> Indicators of hydric se	oil and wetland hydrology must sturbed or problematic.	
1				be present, unless dis	turbed of problematic.	
2				_ Hydrophytic		
% Bare Ground in Herb Stratum 30		= Total	Cover	Vegetation Present? Y	es <u>√</u> No	
Remarks:						
Sapling/shrub on perimeter of depression.						

Profile Desc	ription: (Describe	to the depth	needed to docur	nent the	indicator	or confirm	m the absence of i	ndicators.)	
Depth					Toyture	Remarks			
(inches)	Color (moist) 10 YR 4/1	80	Color (moist) 10 YR 5/8	<u>%</u> 20	C Type	M/PL		Remarks	
0-12	10 11 4/1		10 113/6			1VI/ L	Olay		
¹Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, C	S=Covere	ed or Coat	ed Sand G	Grains. <sup>2</sup> Locatio	on: PL=Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise no	ted.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)			-	atrix (S4)			k (A9) ( <b>LRR I, J</b> )	
Histic E	oipedon (A2)			Redox (S			_	irie Redox (A16) (LRR F, G, H)	
	stic (A3)			d Matrix (			Dark Surface (S7) (LRR G)		
	en Sulfide (A4)	<b>E</b> \			ineral (F1)			s Depressions (F16)	
_	d Layers (A5) (LRR	-	✓ Loamy ✓ Deplete	-	latrix (F2)		•	I outside of MLRA 72 & 73) Vertic (F18)	
	ıck (A9) ( <b>LRR F, G,</b> d Below Dark Surfa			ed Matrix Dark Surf				nt Material (TF2)	
· — ·	ark Surface (A12)	· · · · · · · · · · · · · · · · · · ·			urface (F7	<b>'</b> )	Very Shallow Dark Surface (TF12)		
I —	fucky Mineral (S1)			Depression		-		plain in Remarks)	
2.5 cm l	Mucky Peat or Peat	(S2) (LRR G,	H) High Pl	ains Depi	ressions (I	F16)	<sup>3</sup> Indicators of hydrophytic vegetation and		
5 cm Mu	icky Peat or Peat (S	33) (LRR F)	(ML	.RA 72 &	73 of LR	RH)	wetland hydrology must be present,		
							unless dis	turbed or problematic.	
Restrictive	Layer (if present):								
Type:			_						
Depth (in	ches):						Hydric Soil Pre	esent? Yes No	
Remarks:									
HYDROLO	GY								
	drology Indicators						-		
,	cators (minimum of		check all that ann	lv)			Secondary I	Indicators (minimum of two required)	
		one required,	Salt Crust					Soil Cracks (B6)	
	Water (A1)		_		ac (B13)			y Vegetated Concave Surface (B8)	
i	High Water Table (A2)  Saturation (A3)  Aquatic Invertebrates (B13)  Hydrogen Sulfide Odor (C1)					Drainage Patterns (B10)			
								d Rhizospheres on Living Roots (C3)	
Water Marks (B1)									
Drift De				not tilled				n Burrows (C8)	
	at or Crust (B4)		Presence		•	(4)		ion Visible on Aerial Imagery (C9)	
	oosits (B5)		Thin Muck			,		rphic Position (D2)	
	on Visible on Aerial	Imagery (B7)						eutral Test (D5)	
I —	tained Leaves (B9)		_ `				<del></del>	eave Hummocks (D7) (LRR F)	
Field Obser									
Surface Wat		Yes N	o ✓ Depth (in	ches):					
Water Table			o ✓ Depth (in						
Saturation P			o ✓ Depth (in			- 1	tland Hydrology P	resent? Yes ✓ No	
(includes car	oillary fringe)								
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:									
Remarks:									
Inundated of	n 1996 aerial and	d saturated o	on 2012 aerial.						

Project/Site: 130 Environmental Park		City/Count	<sub>y:</sub> Lockha	rt/Caldwell	Sampling Date: <u>07/10/2013</u>			
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T11-DP3			
Investigator(s): Troegle, Josh & Littleton, Brandyn								
Landform (hillslope, terrace, etc.): Channel remnant					/e Slope (%); 0-3			
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: Ts - Tinn soils, frequently flood								
Are climatic / hydrologic conditions on the site typical for this			_					
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No			
Are Vegetation, Soil, or Hydrology n				eeded, explain any answe				
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.								
Hydrophytic Vegetation Present? Yes ✓ N	0		h . O l l					
Hydric Soil Present? Yes ✓ N			he Sampled hin a Wetlar		No			
Wetland Hydrology Present? Yes ✓ N	o	Wit	IIIII a Wellai	id: 165 <u>·</u>				
Remarks:								
VEGETATION – Use scientific names of plan	ts.	7.						
Total Annual Control of Plan	Absolute	Dominar	nt Indicator	Dominance Test work	ksheet:			
Tree Stratum (Plot size: 30'			Status	Number of Dominant S				
1				That Are OBL, FACW, (excluding FAC-):				
2				(excluding PAC=).	<u>3</u> (A)			
3				Total Number of Domir Species Across All Stra	^			
4					(D)			
Sapling/Shrub Stratum (Plot size: 15' )		= Total Co	over	Percent of Dominant S That Are OBL, FACW,				
1. Ulmus crassifolia	5	Yes	FAC					
2. Fraxinus pennsylvanica	5	Yes	FAC	Prevalence Index wor				
3				Total % Cover of:	Multiply by: x 1 =			
4					x 1 = x 2 =			
5	10				x3=			
Herb Stratum (Plot size: 5'	10	= Total Co	over	1	x 4 =			
1. Persicaria hydropiperoides	50	Yes	OBL	UPL species	5 -			
2. Iva annua	20	No	FAC		(A)(B)			
3. Xanthium strumarium	20	No	FAC	Dravalance Index	D/A -			
4. Sesbania drummondii	5	No	FACW	Hydrophytic Vegetati	( = B/A =			
5. Phyla lanceolata	15	No	FACW	1	Hydrophytic Vegetation			
6				✓ 2 - Dominance Tes				
7				3 - Prevalence Ind				
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting			
9			<del></del>		s or on a separate sheet)			
10	110	= Total Co	over	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)			
Woody Vine Stratum (Plot size: 30' )			3401	<sup>1</sup> Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.			
2.				Hydrophytic				
W. D Grandin II. 1 31 60		= Total Co	over	Vegetation	es <u> </u>			
% Bare Ground in Herb Stratum 60  Remarks:			P.W					
Sapling shrub on perimeter of depression.								
				•				

Depth (inches)	A 4 - Audi.		Dada	v East				
	Matrix Color (moist)	% Co	olor (moist)	x Feature %	Type <sup>1</sup>	_Loc²	Texture	Remarks
0-12	10 YR 4/1		'R 5/8	20	C	M/PL	Clay	Kemarke
0-12	10 11( 4/1		11070				<u> </u>	
			-					
¹Type: C=Cc	oncentration, D=Dep	oletion RM=Redu	iced Matrix CS	S=Covere	d or Coate	ed Sand G	rains <sup>2</sup> l ocation	n: PL=Pore Lining, M=Matrix.
	ndicators: (Applic					od Odina O		Problematic Hydric Soils <sup>3</sup> :
Histosol	• • •			Gleyed Ma				(A9) (LRR I, J)
	oipedon (A2)			Redox (S				ie Redox (A16) (LRR F, G, H)
Black His				d Matrix (				ce (S7) (LRR G)
	n Sulfide (A4)				neral (F1)			Depressions (F16)
	Layers (A5) (LRR	F)	Loamy	Gleyed M	atrix (F2)			outside of MLRA 72 & 73)
_	ck (A9) (LRR F, G,		✓ Deplete	d Matrix (	F3)		Reduced V	ertic (F18)
	l Below Dark Surfac	e (A11)	_	Dark Surf	, ,		_	t Material (TF2)
	rk Surface (A12)				urface (F7	)		ow Dark Surface (TF12)
	lucky Mineral (S1)			Depressio				lain in Remarks)
	fucky Peat or Peat		High Pla		•	•		ydrophytic vegetation and
5 cm Mu	cky Peat or Peat (S	3) (LRR F)	(ML	.RA /2 &	73 of LRF	( Н)		drology must be present,
Destrictive I	aver (if present):	3-08					uniess disti	urbed or problematic.
	ayer (if present):							
							11. 12. 0. 11.0.	10 V 1
Depth (inc	ches):						Hydric Soli Pres	sent? Yes V No No
Remarks:								
	GY			new room				
Wetland Hyd	Irology Indicators:		ck all that ann	h/)			Secondary in	odicators (minimum of two required)
Wetland Hyd Primary Indic	Irology Indicators: ators (minimum of o							ndicators (minimum of two required)
Wetland Hyd Primary Indic Surface \	rology Indicators: ators (minimum of d Water (A1)		Salt Crust	(B11)	oo (P42)		Surface	Soil Cracks (B6)
Wetland Hyd Primary Indic Surface \ High Wat	Irology Indicators: ators (minimum of o Water (A1) ter Table (A2)		Salt Crust Aquatic In	(B11) vertebrate			Surface Sparsely	Soil Cracks (B6) v Vegetated Concave Surface (B8)
Wetland Hyd Primary Indic Surface \ High Wat Saturatio	Irology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3)		Salt Crust Aquatic In Hydrogen	(B11) vertebrate Sulfide O	dor (C1)		Surface Sparsely _✓ Drainage	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10)
Wetland Hyd  Primary Indic  Surface \ High Wat  Saturatio Water Ma	trology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1)		Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrate Sulfide O on Water	dor (C1) Table (C2)		<ul><li>Surface</li><li>Sparsely</li><li>✓ Drainage</li><li>Oxidized</li></ul>	Soil Cracks (B6) v Vegetated Concave Surface (B8) e Patterns (B10) l Rhizospheres on Living Roots (C3
Wetland Hyd  Primary Indic  Surface \ High Wat  Saturatio Water Ma Sedimen	trology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2)		Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe	dor (C1) Table (C2) eres on Liv		Surface Sparsely ✓ Drainage Oxidized (C3) (where	Soil Cracks (B6) v Vegetated Concave Surface (B8) e Patterns (B10) Rhizospheres on Living Roots (C3 e tilled)
Wetland Hyd  Primary Indic  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep	Arology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3)		Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled	dor (C1) Table (C2) eres on Liv	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where	Soil Cracks (B6) v Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8)
Primary Indice Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Materia	drology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) tt Deposits (B2) oosits (B3) t or Crust (B4)		Salt Crust Aquatic Iri Hydrogen Dry-Seasc Oxidized F (where Presence	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2) eres on Liv ) ed Iron (C	ing Roots	Surface Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) On Visible on Aerial Imagery (C9)
Wetland Hyd  Primary Indic  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep  Algal Mat  Iron Depo	drology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5)	one required; che	Salt Crust Aquatic Irr Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomore	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Hilled) Burrows (C8) On Visible on Aerial Imagery (C9) Onic Position (D2)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo	Arology Indicators: Lators (minimum of of other (A1) Iter Table (A2) Iter Table (A2) Iter Table (A2) Iter Table (B1) Iter Table (B2) Iter Table (B2) Iter Table (B3) Iter Table (B4) Iter Table (B5) Iter Table (B4) Iter Table (B5) Iter Table (B4) Iter Table (B5) Iter Table (B4) Iter Table (B4) Iter Table (B4) Iter Table (B5) Iter Table (B4) Iter Tabl	one required; che	Salt Crust Aquatic Iri Hydrogen Dry-Seasc Oxidized F (where Presence	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomore FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Ohic Position (D2) Utral Test (D5)
Wetland Hyd  Primary Indic  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep  Algal Mat  Iron Depo  Inundatio  Water-St	Arology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial atined Leaves (B9)	one required; che	Salt Crust Aquatic Irr Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomore FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Hilled) Burrows (C8) On Visible on Aerial Imagery (C9) Onic Position (D2)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo	Arology Indicators: ators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial atined Leaves (B9) artors:	Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomore FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Ohic Position (D2) Utral Test (D5)
Wetland Hyd  Primary Indic  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep  Algal Mat  Iron Depo  Inundatio  Water-St	drology Indicators: ators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial cained Leaves (B9) rations: er Present?	Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomore FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Ohic Position (D2) Utral Test (D5)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Water-St Field Observ	drology Indicators: ators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) assits (B3) at or Crust (B4) assits (B5) on Visible on Aerial atined Leaves (B9) articles ar Present?	Imagery (B7)	Salt Crust Aquatic Irr Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots  4)	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)
Wetland Hyd  Primary Indic  Surface N  High Wat  Saturatio  Water Ma  Sedimen  Drift Dep  Algal Mat  Iron Depe  Inundatio  Water-St  Field Observ  Surface Water  Saturation Primary Indication  Surface Water  Saturation Primary Indication  Field Observe  Surface Water  Saturation Primary Indication  Primary Indication  Surface Water  Saturation Primary Indication  Primary Indication  Surface Water  Saturation Primary Indication  Surface Water  Surface W	drology Indicators: ators (minimum of of of water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) of or Crust (B4) oosits (B5) on Visible on Aerial ained Leaves (B9) vations: er Present? Present?	Imagery (B7)	Salt Crust Aquatic Irr Hydrogen Dry-Seasc Oxidized F (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C4 (C7) emarks)	ing Roots  4)	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Ohic Position (D2) Utral Test (D5)
Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pr (includes cap	drology Indicators: ators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asits (B3) t or Crust (B4) asits (B5) on Visible on Aerial ained Leaves (B9) artions: ar Present? Present? Yesent? Yesent? Yesent?	Imagery (B7)  /es No No /es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	Ting Roots 4) Wet	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-Hee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro	drology Indicators: ators (minimum of of of water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) oosits (B3) of or Crust (B4) oosits (B5) on Visible on Aerial ained Leaves (B9) vations: er Present? Present?	Imagery (B7)  /es No No /es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	Ting Roots 4) Wet	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-Hee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap) Describe Rec	drology Indicators: ators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asits (B3) t or Crust (B4) asits (B5) on Visible on Aerial ained Leaves (B9) artions: ar Present? Present? Yesent? Yesent? Yesent?	Imagery (B7)  /es No No /es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	Ting Roots 4) Wet	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-Hee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)
Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Mat Iron Depo Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro	drology Indicators: ators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asits (B3) t or Crust (B4) asits (B5) on Visible on Aerial ained Leaves (B9) artions: ar Present? Present? Yesent? Yesent? Yesent?	Imagery (B7)  /es No No /es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	Ting Roots 4) Wet	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-Hee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)
Wetland Hyd Primary Indic Surface N High Wat Saturatio Water Ma Sedimen Drift Dep Algal Ma Iron Dep Inundatio Water-St Field Observ Surface Water Water Table I Saturation Pro (includes cap Describe Rec	drology Indicators: ators (minimum of of of other (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) asits (B3) t or Crust (B4) asits (B5) on Visible on Aerial ained Leaves (B9) artions: ar Present? Present? Yesent? Yesent? Yesent?	Imagery (B7)  /es No No /es No	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized f (where Presence Thin Muck Other (Exp	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	Ting Roots 4) Wet	Surface Sparsely ✓ Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-Hee	Soil Cracks (B6)  Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 Patilled) Burrows (C8) On Visible on Aerial Imagery (C9) Pohic Position (D2) Putral Test (D5) Pave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Co	ounty: _	Lockha	rt/Caldwell	Sampling Date: 07/11/2013
Applicant/Owner: 130 Environmental Park, LLC		-				Sampling Point: T11-DP4
Investigator(s): Troegle, Josh & Littleton, Brandyr						
Landform (hillslope, terrace, etc.): Depression/Dry Po						Slope (%): 2-4
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaB - Mabank loam, 1-3% sk					NWI classifica	
Are climatic / hydrologic conditions on the site typical for th		0 \/-	/			
Are Climatic / hydrologic conditions on the site typical for the Are Vegetation, Soil, or Hydrology						resent? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site map					eeded, explain any answer	
				•	,	
Hydrophytic Vegetation Present? Yes ✓			is the	Sampled		
Hydric Soil Present? Yes ✓ Wetland Hydrology Present? Yes ✓			within	a Wetlar	nd? Yes <u>√</u>	No
Wetland Hydrology Present? Yes ✓ Remarks:						
Dry pond						
VEGETATION - Use scientific names of plan	nts.					
201	Absolute			ndicator	Dominance Test works	sheet:
Tree Stratum (Plot size: 30'	% Cover 40	Yes		FACU	Number of Dominant Sp	
Prosopis glandulosa     Celtis laevigata	20	Yes		FAC	That Are OBL, FACW, of (excluding FAC-):	3 (A)
3					Total Number of Domina Species Across All Strat	E
4	60	= Tota	al Cove	r	Dercent of Deminent Co	
Sapling/Shrub Stratum (Plot size: 15' )		. , , ,	u. <b>0</b> 010		Percent of Dominant Sp That Are OBL, FACW, of	
1					Prevalence Index work	roheat.
2					Total % Cover of:	
3						x 1 =
4					1	x 2 =
5					1	x 3 =
Herb Stratum (Plot size: 5'		_= I Ota	al Cove	r	1	x 4 =
1. Iva annua	50	Yes		FAC	UPL species	x 5 =
2. Persicaria hydropiperoides	75	Yes		OBL	Column Totals:	(A) (B)
3					Dravelenes Index	- D/A -
4					Hydrophytic Vegetatio	= B/A =
5					1 - Rapid Test for H	
6		. —			✓ 2 - Dominance Test	
7					3 - Prevalence Inde	
8		-	_		4 - Morphological A	daptations <sup>1</sup> (Provide supporting
9		_			data in Remarks	or on a separate sheet)
10			-10		Problematic Hydrop	ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'	125	_ = TOR	al Cove	er		and wetland hydrology must
1. Smilax bona-nox	_ 5	Yes		FACU	be present, unless distu	rbed or problematic.
2					Hydrophytic	
	5	= Tota	al Cove	eΓ	Vegetation Present? Yes	s <u>√</u> No
% Bare Ground in Herb Stratum 80					Fiesein: Tes	NO
Remarks: Trees are on the perimeter of dry pond.						
Trees are on the perimeter of dry pond.						

Depth <u>Matrix</u> _	Redo	x Feature	e		n the absence of in	
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
(11101100)	5 YR 5/8	40	C	M/PL	Clay	
						-
17 O. O	Paduand Matrix CS	C=Covere	d or Coote	d Sand G	rains <sup>2</sup> l asstice	n: PL=Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=I Hydric Soil Indicators: (Applicable to all L				u Sanu G		Problematic Hydric Soils <sup>3</sup> :
•						-
Histosol (A1)		Gleyed Ma Redox (St				(A9) ( <b>LRR I, J</b> ) ie Redox (A16) ( <b>LRR F, G, H</b> )
Histic Epipedon (A2)		Matrix (	-			ce (S7) (LRR G)
Black Histic (A3) Hydrogen Sulfide (A4)			neral (F1)			Depressions (F16)
Stratified Layers (A5) (LRR F)		Gleyed M	` '			outside of MLRA 72 & 73)
1 cm Muck (A9) (LRR F, G, H)		d Matrix (	, ,		Reduced V	
Depleted Below Dark Surface (A11)	✓ Redox I					Material (TF2)
Thick Dark Surface (A12)			urface (F7	)	_	w Dark Surface (TF12)
Sandy Mucky Mineral (S1)		Depressio	•		Other (Expl	ain in Remarks)
2.5 cm Mucky Peat or Peat (S2) (LRR G	, <b>H</b> ) High Pla	ains Depr	essions (F	16)	<sup>3</sup> Indicators of hy	drophytic vegetation and
5 cm Mucky Peat or Peat (S3) (LRR F)	(ML	RA 72 &	73 of LRF	(H)	wetland hyd	rology must be present,
					unless dist	irbed or problematic.
Restrictive Layer (if present):						
Type:	_					
Depth (inches):					Hydric Soil Pres	sent? Yes ✓ No
Remarks:				-		
HYDROLOGY						
Wetland Hydrology Indicators:						
rrenand nydrology malcalors.						
	check all that appl	v)			Secondary In	dicators (minimum of two required)
Primary Indicators (minimum of one required;					,	dicators (minimum of two required)
Primary Indicators (minimum of one required: Surface Water (A1)	Salt Crust	(B11)	es (B13)		✓ Surface :	Soil Cracks (B6)
Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)	Salt Crust Aquatic In	(B11) vertebrate			✓ Surface : Sparsely	Soil Cracks (B6) Vegetated Concave Surface (B8)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3)	Salt Crust Aquatic In Hydrogen	(B11) vertebrate Sulfide O	dor (C1)		✓ Surface Sparsely Drainage	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10)
Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrate Sulfide O on Water	dor (C1) Table (C2)		✓ Surface : Sparsely Drainage Oxidized	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3
Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe	dor (C1) Table (C2) eres on Liv		✓ Surface :	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled)
Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Salt Crust Aquatic In Hydrogen Dry-Seaso ✓ Oxidized I	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled	dor (C1) Table (C2) eres on Liv	ing Roots	✓ Surface :	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8)
Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized I	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce	dor (C1) Table (C2) eres on Liv ) ed Iron (C	ing Roots	✓ Surface :  — Sparsely — Drainage — Oxidized (C3) (where — Crayfish — Saturation	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) n Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	✓ Surface : Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Shic Position (D2)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturation ✓ Geomory FAC-Net	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Intral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturation ✓ Geomory FAC-Net	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Shic Position (D2)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface	dor (C1) Table (C2) eres on Liv ) ed Iron (C4) (C7)	ing Roots	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturation ✓ Geomory FAC-Net	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Intral Test (D5)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:	Salt Crust Aquatic In Hydrogen Dry-Seasc Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturation ✓ Geomory FAC-Net	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Intral Test (D5)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturation ✓ Geomory FAC-Net	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Intral Test (D5)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized If	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots	✓ Surface :  — Sparsely — Drainage — Oxidized (C3) (where — Crayfish — Saturatic ✓ Geomory — FAC-Neu — Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) In Position (D2) Intral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) ✓ Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crust Aquatic In Hydrogen Dry-Seaso ✓ Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes Notes the present?	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) ✓ Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) ✓ Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) ✓ Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)  Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)
Primary Indicators (minimum of one required:  — Surface Water (A1)  — High Water Table (A2)  — Saturation (A3)  — Water Marks (B1)  — Sediment Deposits (B2)  — Drift Deposits (B3)  — Algal Mat or Crust (B4)  — Iron Deposits (B5)  ✓ Inundation Visible on Aerial Imagery (B7)  — Water-Stained Leaves (B9)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Salt Crust Aquatic In Hydrogen Dry-Seaso Oxidized F	(B11) vertebrate Sulfide O on Water Rhizosphe not tilled of Reduce Surface plain in Re ches): ches): ches):	dor (C1) Table (C2) eres on Liv ) ed Iron (C- (C7) emarks)	ing Roots  4)  Wet	✓ Surface :  Sparsely Drainage Oxidized (C3) (where Crayfish Saturatio ✓ Geomory FAC-Nee Frost-He	Soil Cracks (B6) Vegetated Concave Surface (B8) Patterns (B10) Rhizospheres on Living Roots (C3 tilled) Burrows (C8) In Visible on Aerial Imagery (C9) Inic Position (D2) Itral Test (D5) ave Hummocks (D7) (LRR F)

# TRANSECT 11 SITE PHOTOGRAPHS



Data Point 1
Post Oak Woods



Data Point 2 Floodplain Meadows



Data Point 2
Floodplain Meadows

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# TRANSECT 11 SITE PHOTOGRAPHS



Data Point 3 Sumpweed Depressions



Data Point 3 Sumpweed Depressions



Data Point 4
Emergent Wetlands

T11 - Page 2

# TRANSECT 11 SITE PHOTOGRAPHS



Data Point 4
Emergent Wetlands

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Project/Site: 130 Environmental Park		City/Count	ty: Lockhai	rt/Caldwell	Sampling Date: <u>07/11/2013</u>		
Applicant/Owner: 130 Environmental Park, LLC				State: TX	Sampling Point: T13-DP1		
Investigator(s): Troegle, Josh & Littleton, Brandyn		Section, T	ownship, Ra	nge: NA			
Landform (hillslope, terrace, etc.): Flloodplain		Local reli	ef (concave,	convex, none): Concav	/e Slope (%): 0-1		
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: Ts - Tinn soils, frequently flood					cation: None available		
Are climatic / hydrologic conditions on the site typical for this		ar? Yes t					
Are Vegetation, Soil, or Hydrology s					present? Yes ✓ No		
Are Vegetation, Soil, or Hydrology n				eded, explain any answe			
SUMMARY OF FINDINGS – Attach site map				_			
					(3.4		
Hydrophytic Vegetation Present? Yes ✓ No   Hydric Soil Present? Yes ✓ No			Is the Sampled Area				
· —	0	wit	thin a Wetlar	nd? Yes <u>√</u>	No		
Remarks:					,		
On/In Channel							
VEGETATION – Use scientific names of plan	ts.						
Tree Stratum (Plot size: 30'	Absolute % Cover		nt Indicator  Status	Dominance Test work			
1. Fraxinus pennsylvanica	20	Yes	FAC	Number of Dominant S That Are OBL, FACW,			
2				(excluding FAC-):	5 (A)		
3.				Total Number of Domir	nant		
4.				Species Across All Stra	_		
1.0	20	= Total C	over	Percent of Dominant S	pecies		
Sapling/Shrub Stratum (Plot size: 15'	10	Yes	FAC	That Are OBL, FACW,	or FAC: 100 (A/B)		
1. <u>Ulmus crassifolia</u>	10	105	TAC	Prevalence Index wor	rksheet:		
2				Total % Cover of:	Multiply by:		
3. 4.				OBL species	x 1 =		
5.				FACW species	x 2 =		
	10	= Total C	over		x 3 =		
Herb Stratum (Plot size: 51	00		ELOW	i	x 4 =		
1. Eleocharis compressa	90	Yes Yes	FACW FACW	UPL species	x 5 =		
2. Persicaria maculosa 3. Persicaria hydropiperoides	10	No	OBL	Column Totals:	(A) (B)		
			- ODE	Prevalence Index	c = B/A =		
4 5				Hydrophytic Vegetati	on Indicators:		
6		No.		i —	Hydrophytic Vegetation		
7				✓ 2 - Dominance Tes			
8.				3 - Prevalence Ind			
9.				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting as or on a separate sheet)		
10					ophytic Vegetation <sup>1</sup> (Explain)		
201	150	= Total C	over		, , , ,		
Woody Vine Stratum (Plot size: 30')  1. Cardiospermum halicacabum	10	Yes	FAC	be present, unless dist	il and wetland hydrology must urbed or problematic.		
	- 10	105	- TAC				
2	10	= Total C		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0		- IUIAI C	OVEI	Present? Ye	es No		
Remarks:							
Trees and saplings/shrub on perimeter of depression	n						

Profile Des	cription: (Describe	to the depth ne	eeded to docur	ment the	indicator	or confirm	n the absence of inc	dicators.)
Depth	Matrix (maist)	0/		x Feature		1.2.2	Tavetura	Demonto
(inches) 0-12	Color (moist) 10 YR 2/1		Color (moist) 'R 5/8	<u>%</u> 30	Type <sup>1</sup> C	Loc <sup>2</sup> M/PL		Remarks
0-12	10 11 2/1	_ 10 51	K 3/6			IVI/PL	Clay	
¹Type: C=C	Concentration, D=De	pletion, RM=Red	luced Matrix, CS	S=Covere	d or Coate	ed Sand G	rains. <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators: (Applie							roblematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy (	Gleyed Ma	atrix (S4)		1 cm Muck (	A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (S5	,		Coast Prairie	e Redox (A16) ( <b>LRR F, G, H</b> )
	listic (A3)			d Matrix (S	,			e (S7) ( <b>LRR G</b> )
	en Sulfide (A4)			-	neral (F1)			Depressions (F16)
	d Layers (A5) (LRR			Gleyed Ma	, ,		·	outside of MLRA 72 & 73)
_	uck (A9) ( <b>LRR F, G,</b> ed Below Dark Surfac	,	✓ Redox I	ed Matrix (	,		Reduced Ve	
	ark Surface (A12)	ω (A11)			ırface (F <b>7</b> )	)		Material (TF2) v Dark Surface (TF12)
	Mucky Mineral (S1)			Depressio		,		in in Remarks)
	Mucky Peat or Peat	(S2) (LRR G, H)			essions (F	16)		drophytic vegetation and
5 cm M	ucky Peat or Peat (S	3) (LRR F)	(ML	RA 72 &	73 of LRR	(H)	wetland hydr	ology must be present,
							unless distur	bed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (in	iches):						Hydric Soil Prese	ent? Yes ✓ No
Remarks:								
HYDROLO	GY						4	
	drology Indicators		-					
	cators (minimum of		eck all that anni	v)			Secondary Ind	licators (minimum of two required)
	Water (A1)	one required, on	Salt Crust					oil Cracks (B6)
_	ater Table (A2)		Aquatic In	` '	e (B13)			Vegetated Concave Surface (B8)
Saturati			Hydrogen				,	Patterns (B10)
	/larks (B1)		Dry-Seaso					Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓ Oxidized F					
	posits (B3)			not tilled)			Crayfish E	·
	at or Crust (B4)		Presence	,		4)		Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muck		•	.,		nic Position (D2)
	ion Visible on Aerial	Imagery (B7)	Other (Exp				FAC-Neut	, ,
_	Stained Leaves (B9)	0 , , ,	_ ` '		,			ve Hummocks (D7) (LRR F)
Field Obser								
Surface Wat		Yes No _	Depth (in	ches):				
Water Table		res No _						
Saturation F		res No _\					land Hydrology Pres	sent? Yes ✓ No
(includes ca	pillary fringe)							
	corded Data (stream	n gauge, monitor	ring well, aerial	photos, pr	evious ins	pections),	if available:	
Remarks:				_				

# **TRANSECT 13 SITE PHOTOGRAPHS**



Data Point 1 Emergent Wetlands



Data Point 1 Emergent Wetlands

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Project/Site: 130 Environmental Park		City/County	: Lockhai	rt/Caldwell	Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T14-DP1
			wnship, Ra		
					/e Slope (%): 2
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank loam, 1 to 3% s					cation: None available
Are climatic / hydrologic conditions on the site typical for this		ar? Yes 🗸			
Are Vegetation, Soil, or Hydrology si					present? Yes <a href="#">Yes</a> <a href="#">No</a>
Are Vegetation, Soil, or Hydrology n				eded, explain any answe	
SUMMARY OF FINDINGS – Attach site map					
				· <u>-</u>	
Hydrophytic Vegetation Present? Yes ✓ No Hydric Soil Present? Yes ✓ No Yes	o		e Sampled	_	
	D	with	in a Wetlar	nd? Yes <u>✓</u>	No
Remarks:					
Data point is located on emergent wetland fringe of p	ond.				
VECTATION Has a significant and a fallow	4-				
VEGETATION – Use scientific names of plant		Daminost	Indicator	Daminanaa Taat wad	raha ati
Tree Stratum (Plot size: 30'	Absolute <u>% Cover</u>		Indicator Status	Dominance Test work  Number of Dominant S	
1				That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>3</u> (A)
3				Total Number of Domir	^
4				Species Across All Stra	ata: <u>3</u> (B)
0 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1		= Total Co	ver	Percent of Dominant S	pecies
Sapling/Shrub Stratum (Plot size: 15' )  1. Sesbania drummondii	25	Yes	FACW	That Are OBL, FACW,	or FAC: 100 (A/B)
2				Prevalence Index wor	ksheet:
3.				Total % Cover of:	Multiply by:
4				1	x 1 =
5					x 2 =
	25	= Total Co	ver	1	x 3 =
Herb Stratum (Plot size: 5' )  1. Paspalum distichum	80	Yes	FACW	1	x 4 =
2. Eleocharis engelmannii	30	Yes	FACW		x 5 = (A) (B)
3. Iva annua	5	No	FAC	Column Totals.	(A) (B)
4 Ambrosia psilostachya	5	No	FACU	Prevalence Index	c = B/A =
5.				Hydrophytic Vegetati	
6.				1	Hydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8.				3 - Prevalence Ind	
9					Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)
10				I .	phytic Vegetation <sup>1</sup> (Explain)
30'	120	= Total Co	ver	1 Indicators of budgie on	il and wetland hydrology must
Woody Vine Stratum (Plot size: 30'				be present, unless dist	
1		-		Hydrophytic	
2		= Total Co	ver	Vegetation	
% Bare Ground in Herb Stratum 0				Present? Ye	es / No
Remarks:					
Emergent wetland vegetation with occasional sesba	nia. Hydro	ophytic ve	getation cr	riterion is met.	

Sampling Point: T14-DP1

(inches) 0-4	Matrix			dox Feature						
0-4	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks		
	10 YR 2/1	80	10 YR 5/8	20	<u> </u>	M	Loam	Clay pan at 4-inches		
								7.00		
							-			
1Tuno: C=C	oncentration, D=De	plotion DM=	- Poducod Matrix	CS-Covor	od or Coot	od Sand (	Proins 21 or	cation: PL=Pore Lining, M=Matrix.		
	Indicators: (Appli					eu Sanu C		for Problematic Hydric Soils <sup>3</sup> :		
Histosol		cable to an		y Gleyed M				Muck (A9) (LRR I, J)		
	pipedon (A2)			y Redox (S	, ,			Prairie Redox (A16) (LRR F, G, H)		
	istic (A3)			ed Matrix (				Surface (S7) (LRR G)		
	en Sulfide (A4)			y Mucky M	•	1		Plains Depressions (F16)		
Stratified	d Layers (A5) (LRR	F)	Loam	y Gleyed M	latrix (F2)		(LF	RR H outside of MLRA 72 & 73)		
	uck (A9) (LRR F, G,			eted Matrix				ed Vertic (F18)		
	d Below Dark Surfa	ce (A11)		x Dark Surf	, ,		_	arent Material (TF2)		
_	ark Surface (A12)			eted Dark S	•	)		Shallow Dark Surface (TF12)		
	Mucky Mineral (S1)	(C2) /I DD (		x Depression	, ,	16)		(Explain in Remarks)		
_	Mucky Peat or Peat ucky Peat or Peat (\$			Plains Dep <b>/ILRA 72 &amp;</b>			<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,			
5 611 1016	cky real of real (c	55) ( <b>LIXI</b> )	(1)	IILIX 72 G	75 OI LIKE	<b>XII</b> )	unless disturbed or problematic.			
Restrictive	Layer (if present):		Tural.							
Type: Cla										
· · ·	ches): Four						Hydric Soil	Present? Yes ✓ No		
Remarks:	,									
	criterion is met.									
,										
YDROLO	GY									
	GY drology Indicators	:								
Wetland Hy			d; check all that ap	oply)			Seconda	ary Indicators (minimum of two required)		
Wetland Hye Primary Indic	drology Indicators			oply) ust (B11)				ary Indicators (minimum of two required)		
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of		Salt Cru		es (B13)		Sur			
Wetland Hyd Primary Indic Surface	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Cru Aquatic	ıst (B11)	` ,		Sur	face Soil Cracks (B6)		
Wetland Hyd Primary Indic Surface High Wa	drology Indicators cators (minimum of Water (A1) ater Table (A2)		Salt Cru Aquatic Hydroge	ıst (B11) Invertebrat	odor (C1)	)	Suri	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8)		
Primary Indic Surface High Wa Saturatio	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3)		Salt Cru Aquatic Hydroge	ist (B11) Invertebrat en Sulfide C ason Water	odor (C1) Table (C2	•	Suri Spa Drai Oxio	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10)		
Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1)		Salt Cru Aquatic Hydroge Dry-Sea Oxidized	ist (B11) Invertebrat en Sulfide C ason Water	odor (C1) Table (C2 eres on Li	•	Suri Spa Drai Oxid	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3		
Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2)		Salt Cru Aquatic Hydroge Dry-Sea Oxidizee (wher	ist (B11) Invertebrat en Sulfide C ason Water d Rhizosph	odor (C1) Table (C2 eres on Li	ving Roots	Suri Spa Drai Oxid s (C3) (w	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 rhere tilled)		
Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3)		Salt Cru Aquatic Hydroge Dry-Sea Oxidizee (wher Presence	ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled	odor (C1) Table (C2 eres on Li ) ed Iron (C	ving Roots	Suri Spa Dra Oxio (C3) (w Cra Satu	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8)		
Wetland Hyd Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) farks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	one required	Salt Cru Aquatic Hydroge Dry-Sea Oxidizee	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled ick Surface	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7)	ving Roots	Suri Spa Dra Oxio s (C3) (w Cra Satu	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9)		
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) flarks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	one required	Salt Cru Aquatic Hydroge Dry-Sea Oxidizee	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled ick Surface	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7)	ving Roots	Suri Spa Dra Oxio S (C3) (w Cra Satu Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) omorphic Position (D2)		
Wetland Hyd Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial stained Leaves (B9)	one required	Salt Cru Aquatic Hydroge Dry-Sea Oxidizee	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled ick Surface	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7)	ving Roots	Suri Spa Dra Oxio S (C3) (w Cra Satu Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) imorphic Position (D2) C-Neutral Test (D5)		
Primary India Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S Field Observa	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial stained Leaves (B9) vations:	one required	Salt Cru Aquatic Hydroge Dry-Sea Oxidizee	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphare of Reduction Surface Explain in R	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4)	Suri Spa Dra Oxio S (C3) (w Cra Satu Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) imorphic Position (D2) C-Neutral Test (D5)		
Wetland Hydeliand Hydeliand Surface High Wasser Mater Drift Department Surface Water-S	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present?	one required Imagery (B7	Salt Cru Aquatic Hydroge Dry-Sea Oxidizee (wher Presence Thin Mu 7) Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere of Reductick Surface Explain in R	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4)	Suri Spa Dra Oxio S (C3) (w Cra Satu Geo	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) imorphic Position (D2) C-Neutral Test (D5)		
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present?	Imagery (B7	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidize (wher Presenc Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water d Rhizosphe e not tilled cack Surface Explain in R	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4)	Suri Spa Oxio s (C3) (w Cra Sati Geo FAC	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)		
Wetland Hydeliand Hydelian	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent?	Imagery (B7  Yes   Yes   Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidizee (wher Presence Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled are of Reducick Surface Explain in References:	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4) We	Suri Spa Oxio s (C3) (w Cra Sati FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) imorphic Position (D2) C-Neutral Test (D5)		
Wetland Hydeliand Hydelian	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) at Deposits (B2) posits (B3) at or Crust (B4) bosits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present?	Imagery (B7  Yes   Yes   Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidizee (wher Presence Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled are of Reducick Surface Explain in References:	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4) We	Suri Spa Oxio s (C3) (w Cra Sati FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)		
Primary Indic Surface High Wa Saturatio Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatio Water-S Field Obser Surface Water Water Table Saturation Princludes cap Describe Rec	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent?	Imagery (B7  Yes   Yes   Yes	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidizee (wher Presence Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Rhizosphere not tilled are of Reducick Surface Explain in References:	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4) We	Suri Spa Oxio s (C3) (w Cra Sati FAC Fros	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) comorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)		
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-S Field Obser Surface Wate Water Table Saturation Princludes cap Describe Rec	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? present? present? corded Data (strear	Imagery (B7  Yes I  Yes I  The gauge, mo	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidizer (wher Presence Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Reduction Reduction Research (inches):	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4) We spections	Surface Surface Spanning Span	Face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) smorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)		
Primary Indic Surface High Wa Saturatic Water M Sedimer Drift Dep Algal Ma Iron Dep Inundatic Water-S Field Obser Surface Wate Vater Table Saturation Princludes cap Describe Rec	drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) darks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) cosits (B5) on Visible on Aerial stained Leaves (B9) vations: er Present? Present? resent?	Imagery (B7  Yes I  Yes I  The gauge, mo	Salt Cru Aquatic Hydroge Dry-Sea ✓ Oxidizer (wher Presence Thin Mu Other (E	Ist (B11) Invertebraten Sulfide Cason Water de Reduction Reduction Research (inches):	Odor (C1) Table (C2 eres on Li ) ed Iron (C (C7) emarks)	ving Roots 4) We spections	Surface Surface Spanning Span	face Soil Cracks (B6) rsely Vegetated Concave Surface (B8) inage Patterns (B10) dized Rhizospheres on Living Roots (C3 where tilled) yfish Burrows (C8) uration Visible on Aerial Imagery (C9) pmorphic Position (D2) C-Neutral Test (D5) st-Heave Hummocks (D7) (LRR F)		

Project/Site: 130 Environmental Park		City/County: Lockhart/Caldwell Sampling Date: 06/25/2013					
Applicant/Owner: 130 Environmental F					Sampling Point: T14-DP2		
Investigator(s): Troegle, Josh & Boe, I							
Landform (hillslope, terrace, etc.): Upland					Slope (%): 3		
Subregion (LRR): J - Southwestern Pra					Datum: NAD 83		
Soil Map Unit Name: MaB - Mabank loa					cation: None available		
Are climatic / hydrologic conditions on the si		ar? Yes ۱	_		· · · · · · · · · · · · · · · · · · ·		
Are Vegetation, Soil, or Hydi					present? Yes ✓ No		
Are Vegetation, Soil, or Hydi				eded, explain any answe			
SUMMARY OF FINDINGS – Attac							
Hydrophytic Vegetation Present?	res No <u>√</u>						
Hydric Soil Present?	vdric Soil Present? Yes No ✓				N - 1		
Wetland Hydrology Present?	/es No <u>√</u>	Wit	thin a Wetlan	id? Yes	No <u>✓</u>		
Remarks:		<u> </u>					
Upland grassland dotted with mesquite	e, up-slope from pond.						
			· · · · · ·				
VEGETATION – Use scientific na	mes of plants.						
T 30'	Absolute		nt Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'			? Status	Number of Dominant S			
1				That Are OBL, FACW, (excluding FAC-):	1 (A)		
2				Total Number of Domir	nont		
4.				Species Across All Stra	^		
		= Total Co	over	Percent of Dominant S			
Sapling/Shrub Stratum (Plot size: 15'		'		That Are OBL, FACW,			
1. Prosopis glandulosa		Yes	FACU	Prevalence Index wor	kehoot:		
2					Multiply by:		
3					x 1 =		
4				1	x 2 =		
5	15	= Total Co	over	FAC species	x 3 =		
Herb Stratum (Plot size: 5'		, rotar o	0.00	FACU species	x 4 =		
1. Phalaris caroliniana		Yes	FACW_		x 5 =		
2. Buchloe dactyloides	40	Yes	UPL	Column Totals:	(A) (B)		
3. Ambrosia psilostachya		No	FACU	Prevalence Index	= B/A =		
4				Hydrophytic Vegetation			
5.				1 - Rapid Test for I	Hydrophytic Vegetation		
6				2 - Dominance Tes	st is >50%		
7				3 - Prevalence Ind	ex is ≤3.0 <sup>1</sup>		
9.				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting		
10.					s or on a separate sheet)  phytic Vegetation¹ (Explain)		
	100	= Total C	over				
	)			'Indicators of hydric so be present, unless dist	il and wetland hydrology must		
1					unbod or problematio.		
2				Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0	0	= Total C	over		s No <u>√</u>		
Remarks:							
Upland grassland. Hydrophytic vegeta	ation criterion is not met						

Profile Descrip	tion: (Describe	to the depth ne	eded to docum	ent the in	dicator or cor	nfirm the abser	nce of indicators.)
Depth _	Matrix			Features			
(inches)	Color (moist)		olor (moist)	%	Type <sup>1</sup> Loc		Remarks
0-4 1	0 YR 2/1	100				Clay	
		pletion, RM=Red					<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Ind	icators: (Applic	cable to all LRRs	s, unless otherv	vise noted	d.)	Indicat	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (A	1)		Sandy GI	eyed Matr	ix (S4)	1 c	m Muck (A9) ( <b>LRR I, J</b> )
Histic Epipe			Sandy Re				ast Prairie Redox (A16) (LRR F, G, H)
Black Histic	, ,		—	Matrix (S6	,		rk Surface (S7) (LRR G)
Hydrogen S				ucky Mine	, ,		gh Plains Depressions (F16)
I —	ayers (A5) (LRR (A9) (LRR F, G,			leyed Matı Matrix (F3			(LRR H outside of MLRA 72 & 73)
_	elow Dark Surface	,		ark Surface			duced Vertic (F18) d Parent Material (TF2)
, — .	Surface (A12)	20 (7(11)		Dark Surf	, ,	_	ry Shallow Dark Surface (TF12)
I —	ky Mineral (S1)			epressions			ner (Explain in Remarks)
ı —		(S2) ( <b>LRR G, H</b> )		-	sions (F16)		tors of hydrophytic vegetation and
5 cm Mucky	y Peat or Peat (S	3) (LRR F)	(MLR	A 72 & 73	of LRR H)	wet	tland hydrology must be present,
						unl	ess disturbed or problematic.
Restrictive Lay							
Type: Clay p	oan						
Depth (inche	s): Four					Hydric S	Soil Present? Yes No ✓
Remarks:							
No hydric soil i	indicators obse	rved.					
						4.147	
HYDROLOGY	<i>(</i>						
Wetland Hydro	logy Indicators						
Primary Indicate	ors (minimum of	one required; che	ck all that apply)			Seco	endary Indicators (minimum of two required)
Surface Wa	iter (A1)		Salt Crust (E	311)		_ ;	Surface Soil Cracks (B6)
High Water	Table (A2)		Aquatic Inve	ertebrates	(B13)	_ ;	Sparsely Vegetated Concave Surface (B8)
Saturation (	(A3)		Hydrogen S	ulfide Odo	or (C1)		Drainage Patterns (B10)
Water Mark	s (B1)		Dry-Season	Water Ta	ble (C2)	(	Oxidized Rhizospheres on Living Roots (C3)
Sediment D	eposits (B2)		Oxidized Rh	izosphere	s on Living Ro	oots (C3)	(where tilled)
Drift Deposi	its (B3)		(where no	t tilled)		(	Crayfish Burrows (C8)
Algal Mat or	r Crust (B4)		Presence of	Reduced	Iron (C4)	;	Saturation Visible on Aerial Imagery (C9)
Iron Deposi	ts (B5)		Thin Muck S	Surface (C	7)	✓ (	Geomorphic Position (D2)
Inundation	Visible on Aerial	Imagery (B7)	Other (Expla	ain in Rem	narks)	!	FAC-Neutral Test (D5)
Water-Stain	ned Leaves (B9)					!	Frost-Heave Hummocks (D7) (LRR F)
Field Observati	ions:						
Surface Water F	Present?	′es No <u>▼</u>	Depth (inch	nes):			
Water Table Pre		No <u>▼</u>					
Saturation Prese		res No <u>▼</u>				Wetland Hydro	logy Present? Yes No √
(includes capilla	ry fringe)						
Describe Record	ded Data (stream	gauge, monitor	ing well, aerial ph	notos, prev	vious inspectio	ons), if available	:
Remarks:							
Data point is or	n Floodplain Z	one A; howeve	r no other hydro	ology indi	icators were	observed. W	/etland hydrology criterion is not met.

Project/Site: 130 Environmental Park		City/C	ounty:	Lockhai	rt/Caldwell	_ Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC						_ Sampling Point: T14-DP3
••						
						Slope (%): 1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: MaB - Mabank Ioam, 1-3% slo		-				fication: None available
Are climatic / hydrologic conditions on the site typical for thi		ar? Y	_			
Are Vegetation, Soil, or Hydrology	-					' present? Yes ✓ No
Are Vegetation, Soil, or Hydrology i					eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map	-			•		,
Hydrophytic Vegetation Present? YesN	lo <b>√</b>				_	
Hydric Soil Present? Yes N	lo 🗸			e Sampled		No <u>√</u>
Wetland Hydrology Present? Yes N	lo 🗸		With	n a Wetlar	id? Yes	No <u>v</u>
Remarks:						
Data point is located east of dam, west of upper rea	ch of lake.	Upla	and gr	assland.		
VEGETATION – Use scientific names of plan	ite					
VEGETATION — Use scientific flatties of plan	Absolute	Don	inant	Indicator	Dominance Test wo	rkehoot:
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant	100 100 100 100 100 100 100 100 100 100
1					That Are OBL, FACW	or FAC
2	_				(excluding FAC-):	<u>1</u> (A)
3					Total Number of Dom	inant
4					Species Across All St	rata: <u>2</u> (B)
Sapling/Shrub Stratum (Plot size: 15'		= Tot	al Cov	er	Percent of Dominant	
1					That Are OBL, FACW	/, or FAC: 50 (A/B)
2.				-	Prevalence Index wo	
3.					Total %_Cover of	
4					I	x 1 =
5				•		x 2 =
Hart Otratura (Plataine, 5'		= Tot	al Cov	er		x 3 = x 4 =
Herb Stratum (Plot size: 5'  1 Buchloe dactyloides	70	Yes		UPL	UPL species	
2. Phalaris caroliniana	30	Yes		FACW		(A)(B)
3						
4.						ex = B/A =
5					Hydrophytic Vegeta	
6						Hydrophytic Vegetation
7					2 - Dominance To 3 - Prevalence In	
8						dex is ≤3.0 I Adaptations¹ (Provide supporting
9						ks or on a separate sheet)
10					Problematic Hydr	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	100	= Tot	al Cov	er	Indicators of hydric s	oil and wetland hydrology must
1						sturbed or problematic.
2.					Hydrophytic	
		= Tot	al Cov	er	Vegetation	/aa 41 4/
% Bare Ground in Herb Stratum 0					Present? Y	'es No <u>√</u>
Remarks:	io not mat					
Upland grassland. Hydrophytic vegetation criterion	is not met.	•				

Depth	cription: (Describe Matrix	to the depth n	Redox Fo		or confirm	n the absence o	of Indicators.)
(inches)	Color (moist)	%(	Color (moist)	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10 YR 2/1	100				Clay	
							- X
- / 1	oncentration, D=De				d Sand G		ation: PL=Pore Lining, M=Matrix.
•	Indicators: (Applie	able to all LRR					for Problematic Hydric Soils <sup>3</sup> :
Histoso	` '		Sandy Gley				uck (A9) (LRR I, J)
	pipedon (A2)		Sandy Rede Stripped Ma	, ,			Prairie Redox (A16) (LRR F, G, H)
	istic (A3) en Sulfide (A4)			ky Mineral (F1)			urface (S7) ( <b>LRR G</b> ) ains Depressions (F16)
	d Layers (A5) (LRR	F)		/ed Matrix (F2)			R H outside of MLRA 72 & 73)
_	uck (A9) (LRR F, G,	•	Depleted M				d Vertic (F18)
_	d Below Dark Surface	-		Surface (F6)			rent Material (TF2)
Thick D	ark Surface (A12)		Depleted Da	ark Surface (F7)			nallow Dark Surface (TF12)
Sandy I	Mucky Mineral (S1)		Redox Dep	ressions (F8)			Explain in Remarks)
_	Mucky Peat or Peat	. , ,		Depressions (F			of hydrophytic vegetation and
5 cm M	ucky Peat or Peat (S	3) ( <b>LRR F</b> )	(MLRA	72 & 73 of LRR	H)		hydrology must be present,
						unless	disturbed or problematic.
	Layer (if present):						
Type: Cl							
Depth (in	ches): Four					Hydric Soil F	Present? Yes No <u>✓</u>
HYDROLO	oil indicators obse	iveu.					
Wetland Hy	drology Indicators	 :					
_	cators (minimum of		eck all that apply)			Secondar	y Indicators (minimum of two required)
	Water (A1)		Salt Crust (B1	1)			ice Soil Cracks (B6)
	ater Table (A2)		Aquatic Invert	,			sely Vegetated Concave Surface (B8)
Saturati			Hydrogen Sulf	` ,			age Patterns (B10)
	farks (B1)			/ater Table (C2)			zed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized Rhiz	, ,	na Roots		nere tilled)
	posits (B3)		(where not	·		. ,	îsh Burrows (C8)
	at or Crust (B4)		,	educed Iron (C4	)		ration Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muck Sur	•			norphic Position (D2)
	on Visible on Aerial	Imagery (B7)	Other (Explain				Neutral Test (D5)
_	stained Leaves (B9)	0 7 ( )		,			-Heave Hummocks (D7) (LRR F)
Field Obser							, , , , , , , , , , , , , , , , , , , ,
Surface Wat		esNo	Depth (inche	s):			
Water Table			Depth (inches				
Saturation P			Depth (inches			and Hydrology	Present? Yes No ✓
(includes ca	pillary fringe)						100
	corded Data (stream	gauge, monitor	ring well, aerial phot	tos, previous ins	pections),	if available:	
Remarks:					-		
Data point i	s on Floodplain Zo	one A; howeve	r no other hydrolo	ogy indicators v	were obs	erved. Wetlan	nd hydrology criterion is not met.
							-

Project/Site: 130 Environmental P	ark		City/C	ounty	Lockha	rt/Caldwe	<u>II </u>	Sampling Da	ite: 06/25	/2013
Applicant/Owner: 130 Environment							e: <u>TX</u> 8			
Investigator(s): Troegle, Josh & Bo										
Landform (hillslope, terrace, etc.): Dep					•	_	<sub>ie):</sub> Concave		Slope (%)	. 1
Subregion (LRR): J - Southwestern					•					
Soil Map Unit Name: W - Water	. , , , , , , , , , , , , , , , , , , ,	Lat					NWI classificat			
Are climatic / hydrologic conditions on the	-14 4 - 1 - 1 5 -	Al-1- Al	- O V						availabit	
									,	
Are Vegetation, Soil, or							cumstances" pre			lo
Are Vegetation, Soil, or	Hydrology	naturally pro	blema	atic?	(If ne	eded, expla	ain any answers	in Remarks	.)	
SUMMARY OF FINDINGS - A	ttach site ma	ap showing	sam	plin	g point l	ocations	, transects,	importan	t feature	s, etc.
Hydrophytic Vegetation Present?	Yes <u></u> ✓	No		le th	e Sampled	l Aros				
Hydric Soil Present?		No			in a Wetlar		Yes <u></u> ✓	No		
Wetland Hydrology Present?	Yes <u>✓</u>	No		******						
Remarks:										
Upper reach of lake. No stream. I	Emergent wetla	and.								
VEGETATION - Use scientific	names of p	lants.			-			-		
		Absolute	Dom	ninant	Indicator	Dominan	ce Test worksi	neet:		
Tree Stratum (Plot size: 30'	)	% Cover	Spec	cies?	Status	Number o	of Dominant Spe	cies		
1							OBL, FACW, or	FAC 2		
2	_		-			(excluding	g FAC-):			(A)
3						1	nber of Dominar	nt 2		
4						Species A	Across All Strata	:		(B)
Sapling/Shrub Stratum (Plot size: 15	,	-	= Tota	al Cov	ver		f Dominant Spe		n	
1.						That Are	OBL, FACW, or	FAC: 100	<u> </u>	(A/B)
						Prevalen	ce Index works	heet:		
2. 3.						Total	% Cover of:	Mu	ıltiply by:	
4.						OBL spec	cies	x1=_		_
5.						FACW sp	ecies	x 2 = _		_
			= Tota	al Cov	/er	FAC spec	cies	x 3 = _		_
Herb Stratum (Plot size: 5'	)					FACU sp	ecies	x 4 = _		_
1. Eleocharis engelmannii			Yes		FACW		ies			_
2. Persicaria pensylvanicum			Yes		FACW	Column T	otals:	(A) _		_ (B)
3. Marsilea vestita		10	No		OBL	Pre	valence Index =	: R/A =		
4. Rumex crispus			No		FAC		ytic Vegetation			
5							apid Test for Hy			
6						1	ominance Test i		-gotalion	
7							revalence Index			
8	-					4 - M	orphological Ad	aptations¹ (F	Provide sur	portina
9						da	ata in Remarks o	or on a sepa	rate sheet)	
10						Probl	lematic Hydroph	ytic Vegetat	ion¹ (Expla	in)
Woody Vine Stratum (Plot size: 30'	)	100	= Tota	al Cov	/er	1Indicator	s of hydric soil a	and wetland	hvdrology i	must
1	/					be preser	nt, unless disturt	ed or proble	ematic.	
2.						Hydroph	vtic			
			= Tota	al Cov	/er	Vegetation	on	,		
% Bare Ground in Herb Stratum 0						Present?	Yes	<u>√</u> No	·—	
Remarks:										
Emergent wetland. Hydrophytic ve	egetation criter	ion is met.								

Profile Desc	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence	of indicato	rs.)
Depth	Matrix	0/		x Featur	es Type <sup>1</sup>	_Loc <sup>2</sup>	- Touture		Demants
(inches) 0-3	Color (moist) 10 YR 3/1	90	Color (moist) 10 YR 4/6	<u>%</u> 10	C	M	Texture Clay	Looso	Remarks
							- Clay	Loose	
4-16	10 YR 3/1	70	10 YR 5/8	30	_ <u>C</u>	_M			
16-18	10 YR 3/1	85	10 YR 5/1	15	<u>D</u>	M			
								-	
						-			
						- —			
1= 0.0			Deduced Metric O				21	. 51	
			=Reduced Matrix, C: LRRs, unless othe			ed Sand G			Pore Lining, M=Matrix.  matic Hydric Soils <sup>3</sup> :
Histosol		cable to all			latrix (S4)			Muck (A9) (L	•
	oipedon (A2)			Redox (S					ox (A16) ( <b>LRR F, G, H</b> )
	stic (A3)			d Matrix (				Surface (S7)	
	n Sulfide (A4)			-	lineral (F1)			Plains Depres	` '
ı —	Layers (A5) (LRR	,		-	Matrix (F2)		•		e of MLRA 72 & 73)
	ick (A9) (LRR F, G,		Deplete Redox	ed Matrix			_	ced Vertic (F	,
	d Below Dark Surfa ark Surface (A12)	ce (ATT)			iace (F6) Surface (F7	<b>'</b>	_	arent Materi Shallow Dark	Surface (TF12)
_	lucky Mineral (S1)			Depressi	•	,		(Explain in F	
2.5 cm N	Mucky Peat or Peat	(S2) ( <b>LRR</b>	G, H) High PI	ains Dep	ressions (l	<sup>=</sup> 16)			tic vegetation and
5 cm Mu	icky Peat or Peat (S	83) ( <b>LRR F</b> )	(ML	.RA 72 &	73 of LR	R H)			must be present,
Destrictive I	aver /if present):						unless	s disturbed o	r problematic.
	_ayer (if present):								
Type: Depth (inc	phos):		_				Hudric Soil	Dragant?	Yes ✓ No
Remarks:							Tryunc 3011	riesent	resNo
	file meets the crit	teria for hy	dric soil indicator l	-6: Red	lox Dark	Surface			
This son pre		.0.1.0 101 119	and don marcator.	0	on Bank				
HYDROLO	GY								
Wetland Hyd	drology Indicators	:							
Primary Indic	cators (minimum of	one require	d; check all that app	(v)			Seconda	ary Indicators	s (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)				face Soil Cra	` '
	ter Table (A2)		Aquatic In		` '				ated Concave Surface (B8)
Saturation	, ,		Hydrogen		. ,	,		inage Patteri	
	arks (B1)				Table (C2				pheres on Living Roots (C3)
	nt Deposits (B2) posits (B3)		Oxidized F	not tilled		virig Roots		<b>vhere tilled</b> ) lyfish Burrow	
	it or Crust (B4)		Presence		,	(4)		-	e on Aerial Imagery (C9)
1 — -	osits (B5)		Thin Muck		•	• • •		omorphic Pos	• • • •
	on Visible on Aerial	Imagery (B					_	C-Neutral Te	. ,
Water-S	tained Leaves (B9)				,				mmocks (D7) (LRR F)
Field Observ	vations:								
Surface Wate	er Present?	Yes	No ✓ Depth (in	ches): _		_			
Water Table	Present?	Yes	No ✓ Depth (in	ches):					
Saturation Pr		Yes	No ✓ Depth (in	ches):		Wet	tland Hydrolog	y Present?	Yes <u>✓</u> No
		n gauge, m	onitoring well, aerial	photos, p	previous in	spections)	), if available:		
Remarks:		<u>-</u>					***		
Upper reach	of lake. Data po	oint is on F	loodplain Zone A.	Wetlan	d hydrolo	gy criteri	ion is met.		

Project/Site: 130 Environmental Park	(	City/Count	<sub>y:</sub> Lockha	rt/Caldwell	Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T14-DP5
Investigator(s): Troegle, Josh & Boe, Brian		Section, To	ownship, Ra	nge: NA	
Landform (hillslope, terrace, etc.): Depression		Local relie	ef (concave,	convex, none): Concav	e Slope (%): 0
Subregion (LRR): J - Southwestern Prairies	_ Lat: 29.	96		Long: <u>-97.65</u>	Datum: NAD 83
Soil Map Unit Name: W - Water				NWI classific	ation: None available
Are climatic / hydrologic conditions on the site typical for this	time of yea		_		
Are Vegetation, Soil, or Hydrologys	ignificantly	disturbed?	Are "	Normal Circumstances" p	resent? Yes 🗸 No
Are Vegetation, Soil, or Hydrologyn	aturally pro	blematic?	(If ne	eded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samplir	ng point l	ocations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes ✓ No.	0				
Hydric Soil Present? Yes ✓ No.			he Sampled hin a Wetlar		No
Wetland Hydrology Present? Yes ✓ No	o	With	iiii a wellai	iu: Tes_ <del>\</del>	NO
Remarks:					
Upper reach of lake, emergent wetland.					
VEGETATION – Use scientific names of plant	ts.				
30'	Absolute		t Indicator	Dominance Test work	sheet:
	% Cover			Number of Dominant Sp	
1				That Are OBL, FACW, (excluding FAC-):	3 (A)
3				Total Number of Domin	ant
4.				Species Across All Stra	
151		= Total Co	over	Percent of Dominant Sp	
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW, o	or FAC: 100 (A/B)
1				Prevalence Index wor	ksheet:
3.				Total % Cover of:	Multiply by:
4					x 1 =
5					x 2 =
		= Total Co	over		x 3 =
Herb Stratum (Plot size: 5'   1 Persicaria pensylvanicum	40	Yes	FACW		x 4 =
1. Fersicaria pensyivanicum 2. Echinodorus berteroi	20	Yes	OBL	UPL species	
3. Sagittaria latifolia	20	Yes	OBL	Column rotals.	(A) (B)
4				Prevalence Index	= B/A =
5				Hydrophytic Vegetation	on Indicators:
6				1 - Rapid Test for H	
7				✓ 2 - Dominance Tes	
8.				3 - Prevalence Inde	
9				data in Remarks	daptations <sup>1</sup> (Provide supporting sor on a separate sheet)
10					ohytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'		= Total Co	over	1 Indicators of hydric soil	and wetland hydrology must
1				be present, unless distu	
2.				Hydrophytic	
20		= Total Co	over	Vegetation Present? Yes	s <u>√</u> No
% Bare Ground in Herb Stratum 20				16:	
Emergent wetland dominated by smartweed, with a	couple of a	aquatic si	pecies. Hv	drophytic vegetation cri	terion is met.
	pro ex	,		1 7	

Depth	Matrix			ox Feature			m the absence of ind	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3	10 YR 3/1	90	10 YR 4/6	10	С	М	Clay	
4-12	10 YR 3/1	70	10 YR 5/8	30	C	M		
			10 YR 5/1	- <del>55</del>	- <del>D</del>		<del> </del>	
12-18	10 YR 3/1	85	10 18 5/1			М		
			-					
			- Constant			_		
	Concentration, D=De					ed Sand (	Grains. <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all	LRRs, unless other	erwise no	ted.)		Indicators for Pr	oblematic Hydric Soils <sup>3</sup> :
Histoso	ol (A1)		Sandy	Gleyed M	latrix (S4)		1 cm Muck (/	49) ( <b>LRR I, J</b> )
Histic E	Epipedon (A2)			Redox (S			Coast Prairie	Redox (A16) (LRR F, G, H)
Black F	Histic (A3)			ed Matrix (			_	(S7) (LRR G)
	en Sulfide (A4)			-	ineral (F1)			Depressions (F16)
	ed Layers (A5) (LRF				Matrix (F2)		,	utside of MLRA 72 & 73)
	luck (A9) (LRR F, G			ed Matrix	. ,		Reduced Ver	` '
	ed Below Dark Surfa	ace (A11)	✓ Redox			)		Material (TF2)
	Oark Surface (A12) Mucky Mineral (S1)			ed Dark S Depressi	Surface (F7	,		Dark Surface (TF12) in in Remarks)
	Mucky Peat or Pea				, ,	16)		rophytic vegetation and
_	lucky Peat or Peat (		—		73 of LRI		-	ology must be present,
	(	, , ( ,				,	-	bed or problematic.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):						Hydric Soil Prese	ent? Yes <u>√</u> No
Remarks:								49.0
	ofile meets the cr	iteria for hy	dric soil indicator	F6: Rec	lox Dark	Surface.		
,,,,,,,		,						
HYDROLO	OGY							
Wetland Hy	ydrology Indicator	s:						
Primary Ind	icators (minimum of	f one require	d; check all that ap	oly)			Secondary Ind	icators (minimum of two required)
	e Water (A1)		Salt Crus				Surface S	oil Cracks (B6)
_	/ater Table (A2)			nvertebrat	tes (B13)			/egetated Concave Surface (B8)
Saturat			Hydroge				Drainage I	
_	Marks (B1)		Dry-Seas			)		Rhizospheres on Living Roots (C3
	ent Deposits (B2)							
Sedime			Uxidized	Rhizosph	eres on Li	ina Root	s (C3) (where t	
					eres on Li	ing Root		•
Drift De	eposits (B3)		(where	not tilled	d)		Crayfish B	urrows (C8)
Drift De	eposits (B3) lat or Crust (B4)		(where	not tilled of Reduc	l) ced Iron (C		Crayfish B  ✓ Saturation	urrows (C8) Visible on Aerial Imagery (C9)
Drift De	eposits (B3) lat or Crust (B4) eposits (B5)	al Imagery (B	(where Presence Thin Muc	e not tilled e of Reduc ck Surface	i) ced Iron (C (C7)		<ul><li>Crayfish B</li><li>✓ Saturation</li><li>✓ Geomorph</li></ul>	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2)
Drift De Algal M Iron De Inundat	eposits (B3) fat or Crust (B4) eposits (B5) tion Visible on Aeria		(where Presence Thin Muc	e not tilled e of Reduc ck Surface	i) ced Iron (C (C7)		Crayfish B  ✓ Saturation  ✓ Geomorph ✓ FAC-Neut	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2) ral Test (D5)
Drift De Algal M Iron De Inundat Water-t	eposits (B3) lat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9		(where Presence Thin Muc	e not tilled e of Reduc ck Surface	i) ced Iron (C (C7)		Crayfish B  ✓ Saturation  ✓ Geomorph ✓ FAC-Neut	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2)
Drift De Algal M Iron De Inundat Water-S	eposits (B3) Itat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9 rvations:	)	(where Presence Thin Muc	e not tilled e of Reduc ck Surface xplain in R	d) ced Iron (C (C7) Remarks)	4)	Crayfish B  ✓ Saturation  ✓ Geomorph ✓ FAC-Neut	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2) ral Test (D5)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Wa	eposits (B3) Itat or Crust (B4) eposits (B5) Ition Visible on Aeria Stained Leaves (B9 rvations: Iter Present?	) Yes	(where Presence Thin Muc 7) Other (E	e not tilled e of Reduc ck Surface xplain in F	d) ced Iron (C (C7) Remarks)	4)	Crayfish B  ✓ Saturation  ✓ Geomorph ✓ FAC-Neut	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2) ral Test (D5)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Water Table	eposits (B3) Itat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9 rvations: ter Present? e Present?	Yes	(where Presence Thin Muc 7) Other (E) No \(  \) Depth (i)	e not tilled e of Reduck k Surface xplain in F	d) ced Iron (C (C7) Remarks)	4)	Crayfish B  ✓ Saturation  ✓ Geomorph  ✓ FAC-Neut  Frost-Hea	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Water Table Saturation F	eposits (B3) Itat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9 rvations: ter Present? e Present?	Yes	(where Presence Thin Muc 7) Other (E	e not tilled e of Reduck k Surface xplain in F	d) ced Iron (C (C7) Remarks)	4)	Crayfish B  ✓ Saturation  ✓ Geomorph  ✓ FAC-Neut  Frost-Hea	urrows (C8) Visible on Aerial Imagery (C9) iic Position (D2) ral Test (D5)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Water Table Saturation F (includes ca	eposits (B3) Itat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9 rvations: ter Present? e Present?	Yes Yes Yes	(where Presence Thin Muc 7) Other (E)  No ✓ Depth (i)  No ✓ Depth (i)	e not tilled e of Reduc ck Surface xplain in F inches): inches): inches):	d) ced Iron (C (C7) Remarks)	4) We	Crayfish B  ✓ Saturation  ✓ Geomorph  ✓ FAC-Neut  Frost-Hea	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca	eposits (B3) Itat or Crust (B4) eposits (B5) Ition Visible on Aeria Stained Leaves (B9 ervations: ater Present? e Present? Present? apillary fringe)	Yes Yes Yes	(where Presence Thin Muc 7) Other (E)  No ✓ Depth (i)  No ✓ Depth (i)	e not tilled e of Reduc ck Surface xplain in F inches): inches): inches):	d) ced Iron (C (C7) Remarks)	4) We	Crayfish B  ✓ Saturation  ✓ Geomorph  ✓ FAC-Neut  Frost-Hea	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Drift De Algal M Iron De Inundat Water-S Field Obse Surface Wa Water Table Saturation F (includes ca Describe Re	eposits (B3) Itat or Crust (B4) eposits (B5) Ition Visible on Aeria Stained Leaves (B9 ervations: ater Present? e Present? Present? apillary fringe)	Yes Yes Yes	(where Presence Thin Muc 7) Other (E)  No ✓ Depth (i)  No ✓ Depth (i)	e not tilled e of Reduc ck Surface xplain in F inches): inches): inches):	d) ced Iron (C (C7) Remarks)	4) We	Crayfish B  ✓ Saturation  ✓ Geomorph  ✓ FAC-Neut  Frost-Hea	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Drift De Algal M Iron De Inundal Water-S Field Obse Surface Water Table Saturation F (includes ca Describe Remarks:	eposits (B3) Itat or Crust (B4) eposits (B5) tion Visible on Aeria Stained Leaves (B9 rvations: ater Present? e Present? Present? epillary fringe) ecorded Data (strea	Yes Yes Yes m gauge, me	(where Presence Thin Muc 7)	e not tilled e of Reduc ek Surface xplain in F inches): inches): inches):	d) ced Iron (C (C7) Remarks)	We	Crayfish B  ✓ Saturation ✓ Geomorph ✓ FAC-Neut — Frost-Hea  etland Hydrology Pres s), if available:	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)
Drift De Algal M Iron De Inundal Water-S Field Obse Surface Water Table Saturation F (includes ca Describe Remarks:	eposits (B3) Itat or Crust (B4) eposits (B5) Ition Visible on Aeria Stained Leaves (B9 ervations: ater Present? e Present? Present? apillary fringe)	Yes Yes Yes m gauge, me	(where Presence Thin Muc 7)	e not tilled e of Reduc ek Surface xplain in F inches): inches): inches):	d) ced Iron (C (C7) Remarks)	We	Crayfish B  ✓ Saturation ✓ Geomorph ✓ FAC-Neut — Frost-Hea  etland Hydrology Pres s), if available:	urrows (C8) Visible on Aerial Imagery (C9) nic Position (D2) ral Test (D5) ve Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Cou	nty: Lockha	rt/Caldwell	Sampling Date: 06/25/201	13
Applicant/Owner: 130 Environmental Park, LLC		-	-		Sampling Point: T14-DP6	
••		Section,	Township, Ra	nge: NA		
• • • • • • • • • • • • • • • • • • • •					/e Slope (%): 0	
Subregion (LRR): J - Southwestern Prairies	Lat: 29.	.96	•	Long: -97.65	Datum: NAD 8	3
Soil Map Unit Name: W - Water					cation: None available	
Are climatic / hydrologic conditions on the site typical for thi	is time of ve	ar? Yes				
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No	
Are Vegetation, Soil, or Hydrology				eeded, explain any answe		
SUMMARY OF FINDINGS – Attach site map					•	tc.
Hydrophytic Vegetation Present? Yes ✓	Jo					
	lo		s the Sampled		No	
1	lo	٧ ا	vithin a Wetla	nd? Yes <u>v</u>	NO	
Remarks:						
Scrub-shrub wetland along north shore at lake.						
VEGETATION – Use scientific names of plan	nts.					
	Absolute	Domin	ant Indicator	Dominance Test work	sheet:	
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant S	Species	
1				That Are OBL, FACW,	2	,
2				(excluding FAC-):	<u>Z</u> (A)	,
3				Total Number of Domir	2	
4				Species Across All Stra		
Sapling/Shrub Stratum (Plot size: 15' )		= rotar	Cover	Percent of Dominant S That Are OBL, FACW,		B)
1. Sesbania drummondii	50	Yes	FACW		011710.	٥,
2.				Prevalence Index wo		
3				Total % Cover of:		
4					x 1 = x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 5')	50	= Total	Cover		x 4 =	
1 Eleocharis palustris	90	Yes	OBL		x 5 =	
2. Persicaria pensylvanicum	10	No	FACW	I .	(A) (B	3)
3. Agrostis hyemalis	10	No	FACW			
4. Iva annua	10	No	FAC		c = B/A =	
5				Hydrophytic Vegetati		
6				✓ 2 - Dominance Te	Hydrophytic Vegetation	
7				3 - Prevalence Ind		
8					Adaptations <sup>1</sup> (Provide supporti	ina
9		. —			s or on a separate sheet)	9
10	120			Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)	
Woody Vine Stratum (Plot size: 30' ) 1)		_= Total	Cover	<sup>1</sup> Indicators of hydric so be present, unless dist	il and wetland hydrology must urbed or problematic.	
2.				Hydrophytic	_	
% Bare Ground in Herb Stratum 0		= Total	Cover	Vegetation	es No	
Remarks:						
Scrub-shrub wetland dominated by Sesbania. Hyd	rophytic ve	getatio	n criterion is	met.		

		to the de	pth needed to docu			or confirr	n the absence o	of indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Featur %	es Type <sup>1</sup> _	Loc <sup>2</sup>	Texture	Remarks
(inches) 0-4	10 YR 4/1	85	5 YR 5/8	15	C	M	Clay	Kerrano
	10 YR 3/1	_ <del>55</del>	5 YR 5/8	15	- <del>c</del>	M	Clay	
4-6	10 11 3/1						Clay	
			10 YR 6/2	_ 30	_ <u>D</u>	<u>M</u>		
6-16	10 YR 5/6	_ 50	5 YR 4/6	50	<u> </u>	М		Dense
¹Type: C=C	oncentration D=De	pletion RM	/=Reduced Matrix, C	S=Covere	ed or Coate	ed Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appli	cable to a	I LRRs, unless other	erwise no	oted.)			or Problematic Hydric Soils <sup>3</sup> :
Histosol					fatrix (S4)		1 cm Mi	uck (A9) (LRR I, J)
Histic E	pipedon (A2)			Redox (S				rairie Redox (A16) (LRR F, G, H)
	istic (A3)			d Matrix				urface (S7) (LRR G)
	en Sulfide (A4)	<b>E</b> \		-	lineral (F1) Matrix (F2)			ains Depressions (F16) R H outside of MLRA 72 & 73)
_	d Layers (A5) ( <b>LRR</b> uck (A9) ( <b>LRR F, G</b> ,		✓ Deplet	•	, ,		•	d Vertic (F18)
_	d Below Dark Surfa				face (F6)			rent Material (TF2)
Thick D	ark Surface (A12)				Surface (F7	)		allow Dark Surface (TF12)
	Mucky Mineral (S1)			Depressi				Explain in Remarks)
_	Mucky Peat or Peat				ressions (F k 73 of LRF			of hydrophytic vegetation and hydrology must be present,
5 cm MI	ucky Peat or Peat (S	55) ( <b>LKK F</b>	(141	LRA 12 6	t 73 OI LIKE	CH)		disturbed or problematic.
Restrictive	Layer (if present):							
Depth (in	ches):						Hydric Soil F	Present? Yes ✓ No
Remarks:								
This soil pro	ofile meets the cri	teria for h	ydric soil indicator	F3: Dep	oleted Ma	rix.		
HYDROLO	·CV							
-	drology Indicators		ed; check all that app	atu)			Secondar	y Indicators (minimum of two required)
1		one requir	ed, check all that app Salt Crus					ice Soil Cracks (B6)
_	Water (A1) ater Table (A2)				tes (B13)			sely Vegetated Concave Surface (B8)
Saturati			Hydroger					age Patterns (B10)
ı —	/arks (B1)				Table (C2	)		zed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		✓ Oxidized				(C3) (wi	nere tilled)
ı —	posits (B3)		(where	not tilled	d)			fish Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Redu	ced Iron (C	4)		ration Visible on Aerial Imagery (C9)
Iron De	posits (B5)		Thin Muc	k Surface	e (C7)		-	norphic Position (D2)
Inundat	ion Visible on Aerial	lmagery (	B7) Other (E:	xplain in F	Remarks)			Neutral Test (D5)
Water-S	Stained Leaves (B9)						Frost	-Heave Hummocks (D7) (LRR F)
Field Obser								
			No ✓ Depth (i					
Water Table			No ✓ Depth (i			- 1		
Saturation P	and the second second	Yes	No ✓ Depth (i	nches): _		_ Wet	tland Hydrology	Present? Yes V No No
Describe Re	pillary fringe) corded Data (strear	m gauge, r	monitoring well, aeria	l photos,	previous in	spections)	, if available:	
Remarks:								
Fringe of la	ke, several indica	tors obse	rved. Wetland hyd	drology o	criterion is	met.		

	Project/Site: 130 Environmental Park		City/C	ounty:	Lockhai	rt/Caldwell	Sampling Date: 06/26/2013
Section, Township, Range: NA   Section, Range: NA	Applicant/Owner: 130 Environmental Park, LLC		•	-			
Landform (hillistope, terrace, etc.): Lakeshore							. 0
Solid Map this Name: W - Water   Valer   Valer   None available   None a							Slope (%): 0-3
None available  None (Ino. explain in Remarks.)  None (Ino. explain in Remarks)  None (Ino. explain in Remarks)  None (Ino. explain in Remarks)  None (Ino. explain in Rema							
No	5 · ,						
No	•	in time of you	~~ V				
Soli	W						
SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important features, etc.  Hydrophytic Vegetation Present? Yes No Welland Hydrology Present? Y							
Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Wetland? Yes							·
Hydric Soil Present?   Yes	SUMMARY OF FINDINGS – Attach site map	showing	sam	pling	g point l	ocations, transects	, important features, etc.
Hydric Soil Present?   Yes	Hydrophytic Vegetation Present? Yes	No <b>√</b>		1 - 41-	. 0	Arra	
Vesariable   Ve							No. of
VEGETATION – Use scientific names of plants.           Tree Stratum (Plot size: 30' )         Absolute % Cover Species? Status Status (excluding FAC): 1 (axiong FAC): 1 (bx Species Across All Strata: 2 (bx Species Across All Strata: 4 (bx Species Across All Strata: 4 (bx Species Across All Strata: 4 (bx Species Across All S	Wetland Hydrology Present? Yes !	Vo <u>√</u>		Withi	iii a wellai	iur res	NO <u>*</u>
Absolute   Dominant Indicator   Species?   Status   Status   Status   Status   Status   Status   Status   Species?   Status   Species Archards   Species Archards   Status   Species Archards   Status   Species Archards   Status   Species Archards   Species Archards   Status   Species Archards   Spe	1 Control of the cont						
Absolute	Upland area on micro-knoll near wetlands at upper	reaches of	lake.				
Absolute							
Absolute	VECETATION . He esigntific names of plan	-1-					
Number of Dominant Species   1	VEGETATION – Use scientific frames of plai		Davis		1 - 454	I Danis and Tarkers I	
1	Tree Stratum (Plot size: 30')						
2.		•					
3.						(excluding FAC-):	<u>1</u> (A)
4						Total Number of Domin	ant
That Are OBL, FACW, or FAC: 50 (A/B)						Species Across All Stra	ta: <u>2</u> (B)
1	151		= Tot	al Cov	er	Percent of Dominant St	pecies
2.						That Are OBL, FACW,	or FAC: 50 (A/B)
3			-			Prevalence Index wor	ksheet:
3.       OBL species       x 1 =         5.       = Total Cover       FACW species       x 2 =         FACU species       x 3 =       FACU species       x 4 =         1. Xanthium strumarium       70       Yes       FAC       UPL species       x 5 =         2. Cynodon dactylon       15       No       FACU       Column Totals:       (A)       (B)         3.       Prevalence Index = B/A =       Hydrophytic Vegetation Indicators:       1 - Rapid Test for Hydrophytic Vegetation         6.       1 - Rapid Test for Hydrophytic Vegetation       2 - Dominance Test is >50%       3 - Prevalence Index is ≤3.0¹         8.       3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation¹ (Explain)         10.       = Total Cover       ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         1. Rubus trivialis       95       Yes       FACU         8. Bare Ground in Herb Stratum       95       = Total Cover       Hydrophytic Vegetation Present?       Yes       No						Total % Cover of:	Multiply by:
5.       = Total Cover       FACW species       x 2 =         Herb Stratum (Plot size: 5')       70       Yes       FAC         1. Xanthium strumarium       70       Yes       FAC         2. Cynodon dactylon       15       No       FACU         3.       Prevalence Index = B/A =         4.       Hydrophytic Vegetation Indicators:         5.       1 - Rapid Test for Hydrophytic Vegetation         6.       2 - Dominance Test is >50%         3 - Prevalence Index is ≤3.0¹       3 - Prevalence Index is ≤3.0¹         4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation¹ (Explain)         1 - Rubus trivialis       95       Yes       FACU         2 - Dominance Test is >50%       3 - Prevalence Index is ≤3.0¹       4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)       Problematic Hydrophytic Vegetation¹ (Explain)         1 - Rubus trivialis       95       Yes       FACU       FACU       Yes       No ✓         8 Bare Ground in Herb Stratum       5       Total Cover       Hydrophytic Vegetation Present?       Yes       No ✓							
Herb Stratum (Plot size: 5¹						FACW species	x 2 =
Herb Stratum (Plot size: 5¹   1. Xanthium strumarium   70   Yes   FAC   UPL species   x 4 =	5		= Tot	al Cov	er	FAC species	x 3 =
2. Cynodon dactylon       15       No       FACU       Column Totals:			- 100	u, 00 v	01	FACU species	x 4 =
3		70	Yes		FAC	UPL species	x 5 =
4.	2. Cynodon dactylon	_ 15	No		FACU	Column Totals:	(A) (B)
Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  10.  Woody Vine Stratum Problematic Hydrophytic Vegetation¹ (Explain)  1. Rubus trivialis  yes FACU Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  — 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)  — Problematic Hydrophytic Vegetation¹ (Explain)  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation Present? Yes No ✓	3			_		Prevalence Index	= R/Δ =
5. 6	4						
6.  7.  8.  9.  10.  Woody Vine Stratum (Plot size: 30'  1. Rubus trivialis  9.  Share Ground in Herb Stratum 5	5						
7. 8							
9	į		_				
data in Remarks or on a separate sheet)  10 = Total Cover  Woody Vine Stratum (Plot size: 30' )  1. Rubus trivialis						4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting
Woody Vine Stratum (Plot size: 30'  1. Rubus trivialis  95 Yes FACU  1. Rupus trivialis  95 Yes FACU  Hydrophytic Vegetation (Explain)  1. Rupus trivialis  Present? Yes No ✓						data in Remarks	s or on a separate sheet)
Woody Vine Stratum       (Plot size: 30¹ )       95       Yes       FACU       ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         2.       95       = Total Cover       Hydrophytic Vegetation Present?       Yes No _✓	10					Problematic Hydro	phytic Vegetation¹ (Explain)
1. Rubus trivialis  95 Yes FACU be present, unless disturbed or problematic.  2. Hydrophytic Vegetation Present? Yes No ✓	Woody Vine Stratum (Plot size: 30'		- 100	ai Cov	er		
% Bare Ground in Herb Stratum 5		95	Yes		FACU	be present, unless distu	urbed or problematic.
% Bare Ground in Herb Stratum 5	2					Hydrophytic	
A Bare Ground in Field Graduit		95	= Tot	al Cov	er er	Vegetation	a No 1
Kemarks:	The state of the s					rieseitt 16	3110
		udrophytic :	1000	ation	critorios i	e not met	
Upland areas dominated by southern dewberry. Hydrophytic vegetation criterion is not met.	Opianu areas dominated by southern dewberry. In	yaropriyud V	, eyel	auun	onicion i	a not mot.	
I							

Depth	Matrix		Rad	ox Feature	25			
(inches)	Color (moist)	%_	Color (moist)	<u>%</u>	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
1-3	10 YR 2/1	100					Clay	
4-12	10 YR 4/1	95	10 YR 4/2	5	С	M		Not distinct or prominent
		_		-				
1						10-10	21	
			I LRRs, unless other			ea Sana G		cation: PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils <sup>3</sup> :
		icable to al			atrix (S4)			Muck (A9) (LRR I, J)
Histosol	oipedon (A2)			Redox (S				Prairie Redox (A16) (LRR F, G, H)
Black Hi				ed Matrix (				Surface (S7) (LRR G)
_	n Sulfide (A4)				ineral (F1)	)		Plains Depressions (F16)
	Layers (A5) (LRF	R F)		-	1atrix (F2)			RR H outside of MLRA 72 & 73)
	ick (A9) (LRR F, G			ed Matrix			Reduc	ced Vertic (F18)
	Below Dark Surfa	ice (A11)		Dark Sur	` '			Parent Material (TF2)
	ark Surface (A12)				urface (F7	7)		Shallow Dark Surface (TF12)
	lucky Mineral (S1)			Depressi	ons (F8) ressions (	E16\		(Explain in Remarks) s of hydrophytic vegetation and
	Mucky Peat or Peat icky Peat or Peat (		. ,		73 of LR			nd hydrology must be present,
5 CIII WIL	icky real of real (	00) ( <b>L</b> IXIX I	)		70 01 210	,		s disturbed or problematic.
Restrictive I	_ayer (if present):		-					
Type:								
	ches):						Hydric Soi	I Present? Yes No ✓
Depth (in	ches):						Hydric Soi	I Present? Yes No _✓
Depth (in	ches):			but the r	edox con	centration		
Depth (inc Remarks: The soil has	ches):s	alue (4) an	d low chroma (1),	but the r	edox con	centration		I Present? Yes No ✓ tinct or prominent. Therefore, this s
Depth (inc Remarks: The soil has	ches):s	alue (4) an		but the r	edox con et.	centration		
Depth (inc Remarks: The soil has does not qu	ches): s a high matrix va alify as depleted	alue (4) an	d low chroma (1),	but the r	edox con et.	centration		
Depth (inc Remarks: The soil has does not qu	ches): s a high matrix va alify as depleted	alue (4) an matrix. H	d low chroma (1),	but the r	edox con	centration		
Depth (inc Remarks: The soil has does not qu HYDROLO Wetland Hyd	ches): s a high matrix va alify as depleted GY drology Indicators	alue (4) an matrix. H	d low chroma (1),	is not me	edox con	centration	ns are not dist	
Depth (inc Remarks: The soil has does not qu IYDROLO Wetland Hy	ches): s a high matrix va alify as depleted GY drology Indicators	alue (4) an matrix. H	d low chroma (1), lydric soil criterion	is not me	edox con	centration	ns are not dist	tinct or prominent. Therefore, this s
Depth (inc Remarks: The soil has does not qu IYDROLO Wetland Hy Primary India Surface	ches): s a high matrix varialify as depleted  GY  drology Indicators cators (minimum of	alue (4) an matrix. H	d low chroma (1), lydric soil criterion ed; check all that app	is not me	et.	centration	ns are not dist	tinct or prominent. Therefore, this s
Depth (inc Remarks: The soil has does not qu IYDROLO Wetland Hyd Primary India Surface	ches): s a high matrix valify as depleted  GY  drology Indicators (minimum of Water (A1) atter Table (A2)	alue (4) an matrix. H	d low chroma (1), lydric soil criterion ed; check all that app	oly) ot (B11)	tes (B13)	centration	s are not dist	tinct or prominent. Therefore, this start or prominent. Therefore, this start or prominent. Therefore, this start or prominent.
Depth (inc Remarks: The soil has does not qu IYDROLO Wetland Hy Primary India Surface High Wa Saturatio	ches): s a high matrix valify as depleted  GY  drology Indicators (minimum of Water (A1) atter Table (A2)	alue (4) an matrix. H	ed; check all that app  Aquatic I  Hydroger	bly) at (B11) nvertebrat	tes (B13)		Second Sur Spr Dra	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8)
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Depth (inc Remarks: The soil has does not qu  IYDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water Mater Ma	ches):	alue (4) an matrix. H	ed; check all that app  Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Thin Muc	bly)  It (B11)  In Sulfide ( Ion Water  Rhizosph  In not tilled  Iof Reduck  K Surface	tes (B13) Odor (C1) Table (C2 eres on Li I) Ced Iron (C	2) iving Roots	Second Second Solve Solv	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8)
Depth (inc Remarks: The soil has does not qu  IYDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water M Sedimer Drift Dep Algal Ma Iron Dep	GY  drology Indicators cators (minimum of water (A1) ter Table (A2) on (A3) larks (B1) nt Deposits (B2) cosits (B3) at or Crust (B4) cosits (B5) on Visible on Aeria	alue (4) an matrix. H	ed; check all that app  Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized (where Thin Muc	bly)  It (B11)  In Sulfide ( Ion Water  Rhizosph  In not tilled  Iof Reduck  K Surface	tes (B13) Odor (C1) Table (C2 eres on Li I) Ced Iron (C	2) iving Roots	Second  Sur  Spa  Dra  Oxi  S(C3)  Ge  FA	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) didized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)
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Depth (inc Remarks: The soil has does not qu  IYDROLO  Wetland Hy Primary India Surface High Wa Saturatia Water Mater Surface Water Surface Water Mater Mater Mater Mater Mater Mater Surface Water Mater Ma	GY  drology Indicators cators (minimum of water (A1) ter Table (A2) on (A3) larks (B1) on Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aeria tained Leaves (B9 vations: er Present? Present?	alue (4) an matrix. H	d low chroma (1), lydric soil criterion  ed; check all that app Salt Crus Aquatic I Dry-Seas Oxidized	oly) at (B11) nvertebrate n Sulfide ( son Water Rhizosph e not tilled e of Reduce k Surface kplain in F	tes (B13) Ddor (C1) Table (C2 eres on Li I) ced Iron (C (C7) Remarks)	2) iving Roots C4)	Second  Second  Sur  Spr  Oxi  Cra  Sar  FA  Fro	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) didized Rhizospheres on Living Roots (Concave tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5)
Depth (increase Water Algal Mater-Seid Obser Saturation Principles	ches):  a high matrix variality as depleted  GY  drology Indicators cators (minimum of Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) oosits (B3) at or Crust (B4) oosits (B5) on Visible on Aeria tained Leaves (B9 vations: er Present? Present?	alue (4) an matrix. H	d low chroma (1), lydric soil criterion  ed; check all that app Salt Crus Aquatic I Hydrogei Dry-Seas Oxidized	is not me  bly)  it (B11)  nvertebra  n Sulfide ( con Water Rhizosph  not tilled  cof Reduct  k Surface  kplain in F	es (B13) Odor (C1) Table (C2 eres on Li I) ced Iron (C (C7) Remarks)	2) iving Roots 24) We	Second Second Su Spa Oxi S (C3) FA Fro	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (Construction Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) ast-Heave Hummocks (D7) (LRR F)
Depth (increase Water Nater Seding Print Obser Surface Water-Seding Water Table Saturation Procession (includes cap Describe Redions of the solid procession of the solid process	ches):	alue (4) an matrix. H	d low chroma (1), lydric soil criterion  ed; check all that app  Salt Crus  Aquatic I  Hydroger  Dry-Seas  Oxidized  (where  Presence  Thin Muc  B7)  Other (Exitation)  No  Depth (in No  Depth (in No	is not me  bly)  it (B11)  nvertebrar  n Sulfide ( con Water Rhizosph  not tilled  of Reduce k Surface  kplain in F	tes (B13) Odor (C1) Table (C2 eres on Li I) Ced Iron (C (C7) Remarks)	2) iving Roots 24)  We aspections	Second  Second  Sui  Spi  Oxi  Cra  Sai  FAi  Fro  tland Hydrolog  i, if available:	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (Cowhere tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)
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Depth (increments) Remarks: The soil has does not question and the soil has does not question and the second an	ches):	I Imagery (I)  Yes m gauge, n NC, 201	d low chroma (1), lydric soil criterion  ed; check all that app  Salt Crus Aquatic I Hydroger Oxidized (where Presence Thin Muc B7) Other (E:  No V Depth (i) No V Depth (i) No NoINP, 2008-20	is not me bly) it (B11) nvertebra n Sulfide ( son Water Rhizosph not tilled e of Reduc k Surface k plain in F nches): nches): I photos,   109 CIR	et.  les (B13) Ddor (C1) Table (C2 eres on Li l) led Iron (C (C7) Remarks)  previous ir 1, 2005 N  pgraphy v	2) iving Roots 24)  We aspections IAIP CIR	Second Sur Spr Dra Oxi S (C3) (0 Cra Sat FA Fro tland Hydrolog ), if available:	tinct or prominent. Therefore, this stary Indicators (minimum of two required face Soil Cracks (B6) arsely Vegetated Concave Surface (B8) ainage Patterns (B10) idized Rhizospheres on Living Roots (Cowhere tilled) ayfish Burrows (C8) turation Visible on Aerial Imagery (C9) omorphic Position (D2) C-Neutral Test (D5) ost-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		Citv/Co	<sub>untv:</sub> Lockha	rt/Caldwell	Sampling Date: 06/26/2013
Applicant/Owner: 130 Environmental Park, LLC		-			Sampling Point: T14-DP8
• •			, Township, Ra		
Landform (hillslope, terrace, etc.): Floodplain					Slone (%): 0
Subregion (LRR): J - Southwestern Prairies					
					ation: None available
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar? Ye	s <u> ✓                                   </u>	(If 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	_ naturally pro	blemati	ic? (If ne	eeded, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing	samp	oling point l	ocations, transects	, important features, etc
Hydrophytic Vegetation Present? Yes	No ✓				
Hydric Soil Present? Yes	No ✓		Is the Sampled		/
Wetland Hydrology Present? Yes	No ✓	'	within a Wetlar	nd? Yes	No <u> </u>
Remarks:					
Upland open meadow adjacent to channel on mic	cro-knoll.				
VEGETATION – Use scientific names of pl	ants.				
Tree Stratum (Plot size: 30'	Absolute		nant Indicator	Dominance Test work	sheet:
	-		es? Status	Number of Dominant S	
1				That Are OBL, FACW, (excluding FAC-):	1 (A)
2					
3				Total Number of Domin Species Across All Stra	•
4			Cover		
Sapling/Shrub Stratum (Plot size: 15'		- Total	Cover	Percent of Dominant Sp That Are OBL, FACW, of	
1					
2.				Prevalence Index wor	
3					Multiply by:
4					x 1 =
5				l.	x 2 =
£!		= Total	Cover		x 3 =
Herb Stratum (Plot size: 5' )	60	Yes	FACU	1	x 4 =
1. Cynodon dactylon 2. Carex tetrastachya	$-\frac{60}{40}$	Yes	FACW	UPL species	
3. Cardiospermum halicacabum	10	No	FACU	Column Totals:	(A) (B)
				Prevalence Index	= B/A =
4				Hydrophytic Vegetation	on Indicators:
5				1 - Rapid Test for I	lydrophytic Vegetation
6				2 - Dominance Tes	t is >50%
7				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>
8				4 - Morphological A	Adaptations <sup>1</sup> (Provide supporting
9					s or on a separate sheet)
10		= Total	L Cover	Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30' )				<sup>1</sup> Indicators of hydric soi be present, unless distu	I and wetland hydrology must urbed or problematic.
1				Hadronby 41 -	
2			L Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0		- rota	Cover		s No_ <u>√</u>
Remarks:			**:	<u> </u>	
Xanthium strumarium stalks from last year. Herb	aceous area	domin	ated by Bermi	udagrass and sedge. H	lydrophytic vegetation
criterion is not met.					

OIL	ription: (Describe	a to the denth	needed to docume			
		to the depth		Features	commin the absen	ce of marcators.)
epth nches)	Color (moist)	%	Color (moist)		Loc <sup>2</sup> Texture	Remarks
-4	10 YR 2/1	100			Clay	Nomano
			VD 4/0			
-10	10 YR 6/4	80 5	5 YR 4/6	20	Sandy cla	У
			-			
ype: C=Co	ncentration, D=De	pletion, RM=R	leduced Matrix, CS=	Covered or Coated S	Sand Grains. 2	Location: PL=Pore Lining, M=Matrix.
dric Soil I	ndicators: (Appli	cable to all LF	RRs, unless otherw	rise noted.)	Indicato	ors for Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Sandy Gle	eyed Matrix (S4)	1 cr	m Muck (A9) (LRR I, J)
Histic Epi	ipedon (A2)		Sandy Re	edox (S5)	Coa	ast Prairie Redox (A16) (LRR F, G, H)
Black His	stic (A3)		Stripped N	Matrix (S6)	Dar	k Surface (S7) (LRR G)
Hydroger	n Sulfide (A4)		Loamy Mi	ucky Mineral (F1)	High	h Plains Depressions (F16)
Stratified	Layers (A5) (LRR	F)	Loamy GI	eyed Matrix (F2)	(	LRR H outside of MLRA 72 & 73)
1 cm Mud	ck (A9) (LRR F, G,	H)	Depleted	Matrix (F3)	Rec	duced Vertic (F18)
Depleted	Below Dark Surface	ce (A11)	Redox Da	ark Surface (F6)	Rec	Parent Material (TF2)
Thick Da	rk Surface (A12)		Depleted	Dark Surface (F7)	Ver	y Shallow Dark Surface (TF12)
Sandy Mi	ucky Mineral (S1)		Redox De	epressions (F8)		er (Explain in Remarks)
	lucky Peat or Peat		H) High Plair	ns Depressions (F16)	<sup>3</sup> Indicate	ors of hydrophytic vegetation and
5 cm Mud	cky Peat or Peat (S	33) (LRR F)	(MLR	A 72 & 73 of LRR H)	wetl	and hydrology must be present,
					unle	ess disturbed or problematic.
strictive L	ayer (if present):					
JULI TOUT OF	ayor (ii procent).					
Type:	ayer (ii precent).		_			
Туре:			_		Hydric S	oil Present? Yes No ✓
Type:					Hydric S	oil Present? Yes No ✓
Type: Depth (inclemarks:	hes):			wever the matrix is		
Type: Depth (inclemarks:	hes):			wever, the matrix is		oil Present? Yes No ✓
Type: Depth (inclemarks: om 5-10 in	hes):			wever, the matrix is		
Type: Depth (inclemarks: om 5-10 in et.	nches, 20% redox			wever, the matrix is		
Type: Depth (inclemarks: om 5-10 in et.	nches, 20% redox	x features we		wever, the matrix is		
Depth (inclemarks: pm 5-10 in pt.	hes): nches, 20% redox GY Irology Indicators	x features we	ere observed. How		s neither dark nor	depleted. Hydric soil criterion is n
Type:	hes): nches, 20% redox GY Irology Indicators ators (minimum of	x features we	ere observed. How		s neither dark nor	depleted. Hydric soil criterion is n
Type:	hes):aches, 20% redox GY Irology Indicators ators (minimum of Water (A1)	x features we	ere observed. How  check all that apply)  Salt Crust (E	311)	s neither dark nor Secon	depleted. Hydric soil criterion is n  ndary Indicators (minimum of two requires
Type:	hes):	x features we	check all that apply)  Salt Crust (E  Aquatic Inve	311) rtebrates (B13)	s neither dark nor  Secon	depleted. Hydric soil criterion is not a make the control of the c
Type:	hes):	x features we	ere observed. How  check all that apply)  Salt Crust (E	311) rtebrates (B13)	s neither dark nor  Secon	depleted. Hydric soil criterion is n  ndary Indicators (minimum of two requires
Type:	hes):	x features we	check all that apply)  Salt Crust (E Aquatic Inve	311) ertebrates (B13) ulfide Odor (C1) Water Table (C2)	Secondary Second	depleted. Hydric soil criterion is not a make the control of the c
Depth (inclemarks: om 5-10 in ot.  DROLOG etland Hyd imary Indicate Value High Water Marks: om 5-10 in ot.	hes):	x features we	check all that apply)  Salt Crust (E Aquatic Inve	311) ertebrates (B13) ulfide Odor (C1)	Secondary Second	ndary Indicators (minimum of two requires Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (E0)
Depth (included) Depth	GY Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2)	x features we	check all that apply)  Salt Crust (E Aquatic Inve	311) ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living	Secondary Second	depleted. Hydric soil criterion is not a depleted. Hydric soil criterion is not a depleted. Hydric soil criterion is not a depleted. Hydric soil cracks (B6) departed Concave Surface (B0) departed Concave Surface (B0) departed Concave Surface (B10)
Depth (inclemarks: pm 5-10 in let.  DROLOG etland Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	hes):	x features we	check all that apply)  Salt Crust (B Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no	311) ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living	Secondary Second	depleted. Hydric soil criterion is not a depleted. Hydric soil criterion is not a depleted. Hydric soil criterion is not a depleted. Hydric soil cracks (B6) a depleted Concave Surface (B0) a depleted Concave Surface (B0) a depleted Concave Surface (B10) a depleted
Depth (inclemarks: pm 5-10 in let.  DROLOG etland Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depo	ches):	x features we	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no	B11) ertebrates (B13) ulfide Odor (C1) Water Table (C2) elizospheres on Living of tilled) Reduced Iron (C4)	Secondary Second	depleted. Hydric soil criterion is not adary Indicators (minimum of two requirements of Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (Exprainage Patterns (B10) Oxidized Rhizospheres on Living Roots (where tilled) Crayfish Burrows (C8) Staturation Visible on Aerial Imagery (C9)
Depth (inclemarks: om 5-10 in et.  DROLOG etland Hyd imary Indica Surface V High Wat Saturation Water Ma Sediment Drift Depot Algal Mat	hes):	x features we	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no	B11) Pritebrates (B13) Ulfide Odor (C1) Water Table (C2) Prizospheres on Living St tilled) Reduced Iron (C4) Surface (C7)	Secondary Second	ndary Indicators (minimum of two requirements of Control of Contro
Depth (inclemarks: om 5-10 in st.  DROLOG etland Hyd mary Indica Surface V High Water Ma Sediment Drift Depo Algal Mat Iron Depo Inundatio	hes):	x features we : one required;	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no	B11) Pritebrates (B13) Ulfide Odor (C1) Water Table (C2) Prizospheres on Living St tilled) Reduced Iron (C4) Surface (C7)	Secondary Second	ndary Indicators (minimum of two requirements of Company Indicators (minimum of two requirements of Company Indicators (Minimum of two requirements of Company Indicators (Manager Patterns (B10)  Dividized Rhizospheres on Living Roots (Where tilled)  Crayfish Burrows (C8)  Crayfish Burrows (C8)  Caturation Visible on Aerial Imagery (C9)  Company Indicators (Minimum of two requirements (C9)  Crayfish Burrows (C8)  Crayfish Burrows (C9)  Crayfish Position (D2)
Type:	hes):	x features we : one required;	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no	B11) Pritebrates (B13) Ulfide Odor (C1) Water Table (C2) Prizospheres on Living St tilled) Reduced Iron (C4) Surface (C7)	Secondary Second	ndary Indicators (minimum of two requirements of Control of Contro
Depth (inclemarks: pm 5-10 in let.  DROLOG etland Hyd imary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mater Inon Depo Inundation Water-Stateld Observed	GY  Irology Indicators ators (minimum of Water (A1) ter Table (A2) in (A3) arks (B1) t Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial ained Leaves (B9) rations:	x features we : one required;	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	B11) Interprete (B13) I	Secondary Second	ndary Indicators (minimum of two requirements of Company Indicators (minimum of two requirements of Company Indicators (Minimum of two requirements of Company Indicators (Manager Patterns (B10)  Dividized Rhizospheres on Living Roots (Where tilled)  Crayfish Burrows (C8)  Crayfish Burrows (C8)  Caturation Visible on Aerial Imagery (C9)  Company Indicators (Minimum of two requirements (C9)  Crayfish Burrows (C8)  Crayfish Burrows (C9)  Crayfish Position (D2)
Depth (inclemarks: pm 5-10 in let.  DROLOG etland Hyd imary Indica Surface V High Wate Saturation Water Ma Sediment Drift Depo Algal Mater Inon Depo Inundation Water-Stateld Observed	ches):	x features we : cone required; Imagery (B7)	check all that apply)  Salt Crust (B Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	B11) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C1) Interpretation (C2) Interpretation (C4) Interpreta	Secondary Second	ndary Indicators (minimum of two requirements of Company Indicators (minimum of two requirements of Company Indicators (Minimum of two requirements of Company Indicators (Manager Patterns (B10)  Dividized Rhizospheres on Living Roots (Where tilled)  Crayfish Burrows (C8)  Crayfish Burrows (C8)  Caturation Visible on Aerial Imagery (C9)  Company Indicators (Minimum of two requirements (C9)  Crayfish Burrows (C8)  Crayfish Burrows (C9)  Crayfish Position (D2)
Type:	ches):	imagery (B7)	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living ot tilled) Reduced Iron (C4) Surface (C7) ain in Remarks)  nes):	Secondary Second	ndary Indicators (minimum of two requirements of two requirements)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (Expansion of the control o
Type:	ches):	imagery (B7)	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	B11) Intebrates (B13) Intebrates (B13) Intebrates (B13) Interpretation (C1) Interpretation (C2) Interpretation (C4) Interpreta	Secondary Second	ndary Indicators (minimum of two requirements of Company Indicators (minimum of two requirements of Company Indicators (Minimum of two requirements of Company Indicators (Manager Patterns (B10)  Dividized Rhizospheres on Living Roots (Where tilled)  Crayfish Burrows (C8)  Crayfish Burrows (C8)  Caturation Visible on Aerial Imagery (C9)  Company Indicators (Minimum of two requirements (C9)  Crayfish Burrows (C8)  Crayfish Burrows (C9)  Crayfish Position (D2)
Type:	ches):	Imagery (B7)  Yes No Yes No	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	B11)  Intebrates (B13)  Intelligence (C1)  Water Table (C2)  Inizospheres on Living  Intelligence (C4)  Intelligence (C7)  Inte	Secondary Second	depleted. Hydric soil criterion is not depleted. Gracks (B6) Sparsely Vegetated Concave Surface (B0) Oxidized Rhizospheres on Living Roots (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) SAC-Neutral Test (D5) Crost-Heave Hummocks (D7) (LRR F)
Type:	ches):	Imagery (B7)  Yes No Yes No Yes No To gauge, moni	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living ot tilled) Reduced Iron (C4) Surface (C7) ain in Remarks)  nes): nes): nes):	Secondary Second	depleted. Hydric soil criterion is not depleted. Gracks (B6) Sparsely Vegetated Concave Surface (B0) Oxidized Rhizospheres on Living Roots (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) SAC-Neutral Test (D5) Crost-Heave Hummocks (D7) (LRR F)
Type:	ches):	Imagery (B7)  Yes No Yes No Yes No To gauge, moni	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen St Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living ot tilled) Reduced Iron (C4) Surface (C7) ain in Remarks)  nes): nes): nes):	Secondary Second	depleted. Hydric soil criterion is not depleted. Gracks (B6) Sparsely Vegetated Concave Surface (B0) Oxidized Rhizospheres on Living Roots (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) SAC-Neutral Test (D5) Crost-Heave Hummocks (D7) (LRR F)
Type:	ches):	Imagery (B7)  Yes No Yes No Yes No To gauge, moni	check all that apply)  Salt Crust (E Aquatic Inve Hydrogen Si Dry-Season Oxidized Rh (where no Presence of Thin Muck S Other (Expla	ertebrates (B13) ulfide Odor (C1) Water Table (C2) izospheres on Living ot tilled) Reduced Iron (C4) Surface (C7) ain in Remarks)  nes): nes): nes):	Secondary Second	depleted. Hydric soil criterion is not depleted. Gracks (B6) Sparsely Vegetated Concave Surface (B0) Oxidized Rhizospheres on Living Roots (where tilled) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Secomorphic Position (D2) SAC-Neutral Test (D5) Crost-Heave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/County: Lockha	art/Caldwell	Sampling Date: 06/26/2013
Applicant/Owner: 130 Environmental Park, LLC				Sampling Point: T14-DP9
		Section, Township, Ra		
• , ,		Local relief (concave,	convex, none); None	Slope (%): 1
Subregion (LRR): J - Southwestern Prairies				Datum: NAD 83
Soil Map Unit Name: FeE - Fett gravelly soils, 1				cation: None available
Are climatic / hydrologic conditions on the site typical f				
Are Vegetation, Soil, or Hydrology				present? Yes ✓ No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site n				
Hydrophytic Vegetation Present? Yes ✓	No	1.41	1.4	
Hydric Soil Present? Yes	No ✓	Is the Sample within a Wetla		No <u>√</u>
Wetland Hydrology Present? Yes	No ✓	Within a Wetla		
Remarks:				
Cedar elm woods adjacent to channel.				
VEGETATION – Use scientific names of	plants.			
201	Absolute	Dominant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'		Species? Status	Number of Dominant S	Species
1. Ulmus crassifolia		Yes FAC	That Are OBL, FACW	3
2			(excluding FAC-):	<u>3</u> (A)
3			. Total Number of Domi	
4			Species Across All Str	rata: <u>5</u> (B)
		= Total Cover	Percent of Dominant S	Species
Sapling/Shrub Stratum (Plot size: 15'			That Are OBL, FACW	
1. Rhus lanceolata	10	Yes UPL	Prevalence Index wo	rkshoot:
2				Multiply by:
3			.	x 1 =
4				x 2 =
5				x 3 =
5'	10	= Total Cover		
Herb Stratum (Plot size: 5'  1. Elymus virginicus	50	Yes FAC		x 4 =
- Canax hyanian	15	Yes FAC	'	x 5 =
			Column Totals:	(A) (B)
3			Prevalence Inde	x = B/A =
4			Hydrophytic Vegetat	ion Indicators:
5			1 - Rapid Test for	Hydrophytic Vegetation
6			✓ 2 - Dominance Te	est is >50%
7			3 - Prevalence Inc	
8.				Adaptations <sup>1</sup> (Provide supporting
9			data in Remark	ks or on a separate sheet)
10			Problematic Hydro	ophytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	65	= Total Cover	Indicators of hydric se	oil and wetland hydrology must
1. Smilax bona-nox	15	Yes FACU	be present, unless dis	
2.			Hudron by 41c	
۲۰		= Total Cover	Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 35		- Total Cover	Present? Y	es No
Remarks:			<u> </u>	
Cedar elm transition with open, grazed understo	ory. Hydrophyt	ic vegetation criteri	on is met.	
		<del>-</del>		

Profile Desc	cription: (Describe	e to the dept	th needed to docur	nent the	indicator	or confir	m the absence	of indicators.)
Depth	Matrix			x Feature	es 1			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>		Remarks
0-1	10 YR 3/1	100					Clay	
2-10	10 YR 4/4	70	10 YR 3/2	30	<u>C</u>	М		Claypan
¹Type: C=C	oncentration D=De	enletion RM=	Reduced Matrix, C	S=Covere	d or Coat	ed Sand 0	Grains <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix.
			LRRs, unless othe			ou ound o	Indicators	for Problematic Hydric Soils <sup>3</sup> :
Histosol					atrix (S4)			Muck (A9) (LRR I, J)
_	oipedon (A2)			Redox (S				Prairie Redox (A16) (LRR F, G, H)
	stic (A3)		Strippe	d Matrix (	S6)			Surface (S7) (LRR G)
Hydroge	en Sulfide (A4)		Loamy	Mucky Mi	ineral (F1)		High F	Plains Depressions (F16)
Stratified	d Layers (A5) (LRR	? <b>F</b> )			latrix (F2)			RR H outside of MLRA 72 & 73)
_	ıck (A9) ( <b>LRR F, G</b>			d Matrix			_	ced Vertic (F18)
	d Below Dark Surfa	ice (A11)		Dark Surf	, ,			arent Material (TF2)
	ark Surface (A12)			ed Dark S Depressio	urface (F7	,		Shallow Dark Surface (TF12) (Explain in Remarks)
	lucky Mineral (S1) Jucky Peat or Peat			-	ressions (I	<del>-</del> 16)	_	of hydrophytic vegetation and
_	icky Peat or Peat (				73 of LR			d hydrology must be present,
	,	, (,	•			<i>'</i>		s disturbed or problematic.
Restrictive	Layer (if present):							
Type: Ha	ırdpan		_					
Depth (in	ches): 10						Hydric Soi	I Present? Yes No ✓
Remarks:			-					
From 2-10 i	nches, 30% redo	x features v	were observed, ho	wever, i	the matri	x is neith	er dark nor de	pleted. Hydric soil criterion is not
met.								
HYDROLO								
1	drology Indicators							
Primary India	cators (minimum of	one required	d; check all that app					ary Indicators (minimum of two required)
I —	Water (A1)		Salt Crust					face Soil Cracks (B6)
	ater Table (A2)		Aquatic In					arsely Vegetated Concave Surface (B8)
Saturation			Hydrogen					inage Patterns (B10)
_	larks (B1)		Dry-Seaso		•			dized Rhizospheres on Living Roots (C3)
1	nt Deposits (B2)		Oxidized			ving Roots		where tilled)
I — ·	posits (B3)		•	not tilled	•	. 4 \		ryfish Burrows (C8)
-	at or Crust (B4)		Presence			,4)		uration Visible on Aerial Imagery (C9)
	oosits (B5)	Limana mama (D	Thin Mucl					omorphic Position (D2)
I —	on Visible on Aeria		7) Other (Ex	piain in R	emarks)			C-Neutral Test (D5)
	tained Leaves (B9	)					FIO	st-Heave Hummocks (D7) (LRR F)
Field Obser		V	No. of Donath (in	-61-				
Surface Wat			No ✓ Depth (ir					
Water Table	Present?		No ✓ Depth (ir					
Saturation P		Yes	No 🗸 Depth (ir	iches):		We	tiand Hydrolog	gy Present? Yes No ✓
(includes car	corded Data (strea	m gauge, mo	onitoring well, aerial	photos, p	revious in	spections	), if available:	
		0 0-7-11	<b>3</b>					
Remarks:								
,	s on Floodplain 2	Zone A: hov	vever no other hv	drology i	ndicators	were of	served. Wetla	and hydrology criterion is not met.
Data Politi	o on r loodplain z	_5115 / 1, 1104						

Project/Site: 130 Environmental Park	<sub>unty:</sub> Lockha	art/Caldwell Sampling Date: 06/26/20					
Applicant/Owner: 130 Environmental Park, LLC				Sampling Point: T14-DP10			
-	nge: NA						
Landform (hillslope, terrace, etc.): Swale on floodplain Local relief (concave, convex, none): Concave Slope (%): 0							
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: W - Water					cation: None available		
Are climatic / hydrologic conditions on the site typical for this	s time of vea	ar? Yes					
Are Vegetation, Soil, or Hydrology s					present? Yes ✓ No		
Are Vegetation, Soil, or Hydrology r				eeded, explain any answe			
SUMMARY OF FINDINGS - Attach site map					,		
Hydrophytic Vegetation Present? Yes ✓ N	lo.						
Hydric Soil Present? Yes ✓ N			s the Sampled	_			
Wetland Hydrology Present? Yes ✓ N	lo	١ ٧	within a Wetlar	nd? Yes <u>*</u>	No		
Remarks:		<u> </u>		-			
Emergent wetland in shallow swale of upper drainag	ge of lake.						
VEGETATION III	.4				140-		
VEGETATION – Use scientific names of plan				1 =			
Tree Stratum (Plot size: 30'	Absolute % Cover		nant Indicator es? Status	Dominance Test worl			
1				Number of Dominant S That Are OBL, FACW,			
2.				(excluding FAC-):	<u>1</u> (A)		
3				Total Number of Domi	nant		
4				Species Across All Stra			
161		= Total	Cover	Percent of Dominant S	pecies		
Sapling/Shrub Stratum (Plot size: 15'				That Are OBL, FACW,	or FAC: 100 (A/B)		
1				Prevalence Index wo	rksheet:		
2				Total % Cover of:	Multiply by:		
3. 4.					x 1 =		
5.				FACW species	x 2 =		
0.		= Total	Cover	FAC species	x 3 =		
Herb Stratum (Plot size: 5'				FACU species	x 4 =		
1. Eleocharis palustris	95	Yes	OBL		x 5 =		
2. Phalaris caroliniana	15	No	FACW	Column Totals:	(A) (B)		
3. Persicaria pensylvanicum	5	No	FACW	Prevalence Index	c = B/A =		
4. Carex brevior	_ 5	No	FAC	Hydrophytic Vegetati			
5				1 - Rapid Test for	Hydrophytic Vegetation		
6				✓ 2 - Dominance Te	st is >50%		
7				3 - Prevalence Ind	lex is ≤3.0 <sup>1</sup>		
9.				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting		
10					s or on a separate sheet)		
		= Total	Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)		
Woody Vine Stratum (Plot size: 30' )				<sup>1</sup> Indicators of hydric so be present, unless dist	oil and wetland hydrology must turbed or problematic.		
2.				Hydrophytic			
		= Total	Cover	Vegetation	es <u>√</u> No		
% Bare Ground in Herb Stratum 0	******						
Emergent wetland swale is dominated by herbaceou	us species	maeth	v spikerush	Hydrophytic vegetation	criterion is met		
Zinoigone woulding official to dominated by horbaceou	opooloo,		, opinoraom	, a. op., j no rogotatioi	. J. Sonon to Mot.		

Profile Desc	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence of in	dicators.)		
Depth	Matrix			x Featur	esType1	Loc <sup>2</sup>	- Touchum	Demorks		
(inches) 0-8	Color (moist) 10 YR 2/1	90	Color (moist) 5 YR 5/8	<u>%</u> 10	C Type	M	Texture Clay	Remarks		
		_			- <del>c</del>		- Ciay			
9-16	10 YR 3/1	_ 65	10 YR 5/2	35		M				
							2			
			M=Reduced Matrix, Coll LRRs, unless othe			ed Sand (		: PL=Pore Lining, M=Matrix. roblematic Hydric Soils <sup>3</sup> :		
		cable to a			fatrix (S4)			(A9) (LRR I, J)		
Histosol	pipedon (A2)			Redox (S				e Redox (A16) (LRR F, G, H)		
_	istic (A3)			d Matrix				e (S7) (LRR G)		
	en Sulfide (A4)		Loamy	Mucky M	lineral (F1)		High Plains	Depressions (F16)		
	d Layers (A5) (LRR			-	Matrix (F2)			outside of MLRA 72 & 73)		
	uck (A9) (LRR F, G,	-	<del></del>	ed Matrix			Reduced Ve	• •		
	d Below Dark Surfa ark Surface (A12)	ce (A11)	✓ Redox		tace (F6) Surface (F7	``		Material (TF2) w Dark Surface (TF12)		
	Mucky Mineral (S1)			Depressi		,		ain in Remarks)		
	Mucky Peat or Peat	(S2) (LRR		-		<del>-</del> 16)	<sup>3</sup> Indicators of hydrophytic vegetation and			
5 cm Mu	ucky Peat or Peat (S	33) ( <b>LRR F</b>	(ML	.RA 72 8	73 of LR	R H)	wetland hyd	rology must be present,		
							unless distu	rbed or problematic.		
Restrictive	Layer (if present):									
, , _										
Depth (in	ches):						Hydric Soil Pres	ent? Yes ✓ No		
Remarks:										
Hydric soil (	criterion is met.									
HYDROLO	GY									
Wetland Hy	drology Indicators	;;	-							
			ed; check all that app	ly)			Secondary Inc	dicators (minimum of two required)		
	Water (A1)		Salt Crust				Surface S	Soil Cracks (B6)		
_	ater Table (A2)		Aquatic In	vertebra	tes (B13)		Sparsely	Vegetated Concave Surface (B8)		
Saturati			Hydrogen	Sulfide (	Odor (C1)		Drainage Patterns (B10)			
Water M	farks (B1)		Dry-Seas	on Water	Table (C2	)	Oxidized	Rhizospheres on Living Roots (C3)		
_	nt Deposits (B2)		Oxidized	Rhizosph	eres on Li	ving Root	, ,	•		
	posits (B3)		•	not tilled	•			Burrows (C8)		
	at or Crust (B4)				ced Iron (C	4)		n Visible on Aerial Imagery (C9)		
	posits (B5)		Thin Mucl					hic Position (D2)		
	ion Visible on Aerial		B7) Other (Ex	plain in F	kemarks)			rtral Test (D5) ave Hummocks (D7) ( <b>LRR F</b> )		
Field Obser	Stained Leaves (B9)			- AND			11031-7161	ave Hammooks (D7) (ERRT)		
		Voc	No ✓ Depth (ir	ches).						
Surface Wat			No ✓ Depth (ir			1				
Water Table Saturation P			No ✓ Depth (ir				tland Hydrology Pro	sent? Yes ✓ No		
(includes ca	pillary fringe)							sentr res No		
Describe Re	corded Data (stream		nonitoring well, aerial			spections	;), if available:			
Aerial Pho	tography: 2012	2, 2010, 2	2008-2009, 2005,	2004,	1996			1.0		
Remarks:										
Data point i	s in a very gentle	swale. S	ite is on Floodplair	Zone A	A. Satura	tion is vis	sible on aerial imag	ery from several years (1996,		
2010, and 2	2012), but is not v	isible in a	ill years. Wetland h	iyarolog	y criterioi	ı ıs met.				

Project/Site: 130 Environmental Park	rt/Caldwell	2013						
						_ Sampling Point: T14-D		
Applicant/Owner: 130 Environmental Park, LLC State: TX Sampling Point: T14-DP11 Investigator(s): Troegle, Josh & Boe, Brian Section, Township, Range: NA								
Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None Slope (%): 1								
					Long: -97.65 Datum: NAD 83			
Soil Map Unit Name: W - Water	Lat					ication: None available		
	0.110							
Are climatic / hydrologic conditions on the site typical for						•		
Are Vegetation, Soil, or Hydrology						present? Yes ✓ No	۰ <u> </u>	
Are Vegetation, Soil, or Hydrology	naturally pro	blema	atic?	(If ne	eeded, explain any answ	ers in Remarks.)		
SUMMARY OF FINDINGS - Attach site ma	ap showing	sam	pling	g point l	ocations, transect	s, important features	s, etc.	
Hydrophytic Vegetation Present? Yes ✓	No				-			
Hydric Soil Present? Yes				Sampled				
Wetland Hydrology Present? Yes			withi	n a Wetla	nd? Yes	No <u>√</u>		
Remarks:			<del></del>					
Upland meadow adjacent to wetlands at upper re	eaches of lake	€.						
VEGETATION – Use scientific names of p	lants.							
201	Absolute			Indicator	Dominance Test wor	ksheet:		
Tree Stratum (Plot size: 30'	% Cover	Spec	cies?	Status	Number of Dominant S			
1					That Are OBL, FACW, (excluding FAC-):	, or FAC 2	(A)	
2							(^)	
3					Total Number of Domi		(D)	
4		_	<u> </u>		Species Across All Str	ala: <u>-</u>	(B)	
Sapling/Shrub Stratum (Plot size: 15' )	-	= Tota	al Cove	er	Percent of Dominant S		(A (D)	
1. Ulmus crassifolia		Yes		FAC	That Are OBL, FACW,	, or FAC: 00	(A/B)	
2.					Prevalence Index wo	rksheet:		
3					Total % Cover of:	Multiply by:	_	
4.					OBL species	x 1 =	_	
5.					FACW species	x 2 =	_	
	5	= Tota	al Cove	er	FAC species	x 3 =	_	
Herb Stratum (Plot size: 5¹ )						x 4 =	_	
1. Cynodon dactylon		Yes		FACU		x 5 =	_	
2. Carex brevior	50	Yes		FAC	Column Totals:	(A)	_ (B)	
3. Rumex altissimus		No		FAC	Prevalence Inde	x = B/A =		
4. Cardiospermum halicacabum		No		FAC	Hydrophytic Vegetat			
5. Croton monanthogynus	2	No		UPL		Hydrophytic Vegetation		
6. Eleocharis engelmannii	2	No		FACW	✓ 2 - Dominance Te			
7					3 - Prevalence Inc			
8						Adaptations <sup>1</sup> (Provide supp	nortina	
9						ks or on a separate sheet)	Jorang	
10.					Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explair	n)	
Woody Vine Stratum (Plot size: 30'	119	= Tota	al Cove	er	<sup>1</sup> Indicators of hydric so	oil and wetland hydrology m	nuet	
1. (Flot size					be present, unless dis		iust	
2.					Hydrophytic			
2.		= Tots	al Cov		Vegetation			
% Bare Ground in Herb Stratum $\underline{0}$		. 104	J. 004	<b>.</b> .	Present? Yo	es No		
Remarks:								
Herbaceous upland meadow dominated by berm	udagrass and	d sedg	ge. Hy	ydrophyti	c vegetation criterion i	s met.		
						<u></u> .		

Profile Desc	ription: (Describe	to the dep	th needed to docun	nent the	indicator	or confirm	n the absence of in	dicators.)		
Depth Matrix			k Feature							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	10 YR 2/1	100					Clay			
6-10	10 YR 4/3	95	5 YR 5/8	5	<u>C</u>	М				
								-		
					· ——					
<sup>1</sup> Type: C=Co	oncentration, D=De	pletion, RM	=Reduced Matrix, CS	=Covere	d or Coate	ed Sand G		: PL=Pore Lining, M=Matrix.		
Hydric Soil I	ndicators: (Applie	cable to all	LRRs, unless other	wise not	ed.)		Indicators for P	Problematic Hydric Soils <sup>3</sup> :		
Histosol	. ,			Bleyed Ma				(A9) ( <b>LRR I, J</b> )		
. —	pipedon (A2)			Redox (S5	•		Coast Prairie Redox (A16) (LRR F, G, H)			
Black His				Matrix (S	,			e (S7) (LRR G)		
	n Sulfide (A4) Layers (A5) ( <b>LRR</b>	E)			neral (F1) atrix (F2)			Depressions (F16)		
_	ck (A9) (LRR F, G,			d Matrix (			(LRR H outside of MLRA 72 & 73) Reduced Vertic (F18)			
1 —	Below Dark Surface			ark Surfa	,		Red Parent Material (TF2)			
	rk Surface (A12)	,			ırface (F7)	)	Very Shallow Dark Surface (TF12)			
	ucky Mineral (S1)			epressio	ns (F8)			ain in Remarks)		
	lucky Peat or Peat			•	•	•	<sup>3</sup> Indicators of hydrophytic vegetation and			
5 cm Mu	cky Peat or Peat (S	3) ( <b>LRR F</b> )	(MLI	RA 72 &	73 of LRR	( <b>H</b> )		rology must be present,		
Do of the street	(ift)						unless distu	rbed or problematic.		
	ayer (if present):									
Type:										
	:hes):						Hydric Soil Pres	ent? Yes No <u>√</u>		
Remarks:	schoo E9/ raday	oonoontro	tions were observe	di bowo	vor the r	notriv wo	a naithar dark nat	doploted Liverin coil exiterion in		
not met.	icnes, 5% redox	concentra	uons were observe	u, nowe	ver, the r	naunx wa	is neither dark not	depleted. Hydric soil criterion is		
1101111011										
HYDROLO	GY									
Wetland Hyd	Irology Indicators									
Primary Indic	ators (minimum of	one require	d; check all that apply	/)			Secondary Inc	dicators (minimum of two required)		
Surface \	Water (A1)		Salt Crust	(B11)			Surface S	Soil Cracks (B6)		
High Wat	ter Table (A2)		Aquatic Inv	ertebrate	s (B13)		Sparsely	Vegetated Concave Surface (B8)		
Saturatio			Hydrogen				Drainage Patterns (B10)			
Water Ma	arks (B1)		Dry-Seaso	n Water 1	Table (C2)		Oxidized	Rhizospheres on Living Roots (C3)		
Sedimen	t Deposits (B2)		Oxidized R	hizosphe	res on Liv	ing Roots	(C3) (where	tilled)		
Drift Dep	osits (B3)		(where n	ot tilled)			Crayfish B	Burrows (C8)		
Algal Ma	t or Crust (B4)		Presence of	of Reduce	ed Iron (C4	1)	Saturation	n Visible on Aerial Imagery (C9)		
Iron Dep	osits (B5)		Thin Muck	Surface (	(C7)		✓ Geomorphic Position (D2)			
Inundatio	on Visible on Aerial	Imagery (B	7) Other (Exp	lain in Re	emarks)		FAC-Neu	tral Test (D5)		
Water-St	ained Leaves (B9)						Frost-Hea	ave Hummocks (D7) (LRR F)		
Field Observ										
Surface Wate			No Depth (inc			- 1				
Water Table I	Present?	/es	No ✓ Depth (inc	:hes):		_				
Saturation Pr		/es	No ✓ Depth (inc	hes):		_ Wet	land Hydrology Pre	sent? Yes No ✓		
(includes cap		2 001100 5-	anitoring wall agric	hotos =	ouleus Is-	noction=\	if available:			
			onitoring well, aerial p			pections),	, ii avaliable.			
	ography: 2012,	2010, 20	08-2009, 2005, 2	004, 18	90					
Remarks:	lu bialaan al-u-4!	n than ==!	acont amoreant	tland "	oto ===	tio on Fi	oodoloin Zana Arib	source no other hadl		
Site is slightly higher elevation than adjacent emergent wetland. Data point is on Floodplain Zone A; however no other hydrology indicators were observed. Wetland hydrology criterion is not met.										
aioatoio III										

Project/Site: 130 Environmental Park		City/Cou	<sub>nty:</sub> Lockha	rt/Caldwell	Sampling Date: 06/26/2013				
Applicant/Owner: 130 Environmental Park, LLC		-	•		Sampling Point: T14-DP12				
Investigator(s): Troegle, Josh & Boe, Brian Section, Township, Range: NA									
Landform (hillslope, terrace, etc.): Mound in floodplain  Local relief (concave, convex, none): Convex  Slope (%): 0									
Subregion (LRR): J - Southwestern Prairies									
Soil Map Unit Name: W - Water					cation: None available				
Are climatic / hydrologic conditions on the site typical for this	time of ve								
Are Vegetation, Soil, or Hydrologys									
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)									
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									
Hydrophytic Vegetation Present? Yes ✓ N	n								
	0		the Sampled oithin a Wetla		No				
	0	<b>"</b>	ntnin a vvetiai	nd? Yes <u>v</u>	№				
Remarks:		_							
Stand of green ash and willow on mound adjacent to	channel o	of upper	r reaches of	lake.					
VEGETATION – Use scientific names of plan	ts.				- 10				
	Absolute	Domina	ant Indicator	Dominance Test work	sheet:				
Tree Stratum (Plot size: 30'			s? Status	Number of Dominant S					
1. Fraxinus pennsylvanica	35	Yes	FAC	That Are OBL, FACW, (excluding FAC-):	or FAC (A)				
2									
3				Total Number of Domir Species Across All Stra					
4	35	= Total (	Cover						
Sapling/Shrub Stratum (Plot size: 15')		- rotar v	00461	Percent of Dominant S That Are OBL, FACW,					
1. Fraxinus pennsylvanica	40	Yes	FAC FAC	Prevalence Index wor					
2					Multiply by:				
3.				1	x1=				
4					x 2 =				
5	40	= Total (	Cover		x 3 =				
Herb Stratum (Plot size: 5'		- Total (	Covei		x 4 =				
1				UPL species	x 5 =				
2				Column Totals:	(A) (B)				
3				Prevalence Index	x = B/A =				
4				Hydrophytic Vegetati					
5				1 - Rapid Test for I	Hydrophytic Vegetation				
6				✓ 2 - Dominance Tes	st is >50%				
7				3 - Prevalence Ind	ex is ≤3.0 <sup>1</sup>				
9				4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting sor on a separate sheet)				
10					phytic Vegetation <sup>1</sup> (Explain)				
201		= Total (	Cover						
Woody Vine Stratum (Plot size: 30')  1. Rubus trivialis	40	Yes	FACU	'Indicators of hydric so be present, unless dist	il and wetland hydrology must				
		168	- FACO	-	and or problematic.				
2		- Total (	Cover	Hydrophytic Vegetation					
% Bare Ground in Herb Stratum 100		= Total (	COVEI	Present? Ye	s <u>√</u> No				
Remarks:									
Small stand of forested wetland. Canopy is mostly to	rees at 3-4	1-inches	diameter. 1	Numerous saplings. Hy	/drophytic vegetation				
criterion is met.									

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix			x Featur					
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Rema	arks	
0-6	10 YR 2/1	100					Clay		
6-12	10 YR 3/1	75	10 YR 5/3	25	С	M			
			10 YR 4/6	1		PL			
			10 11( 4/0	·		·			
						-			
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	Reduced Matrix, CS	S=Covere	ed or Coate	ed Sand G			
Hydric Soil	Indicators: (Applic	able to all					Indicators for Problematic Hy		
Histosol	• •				latrix (S4)		1 cm Muck (A9) (LRR I, J)		
	pipedon (A2)			Redox (S	,		Coast Prairie Redox (A16)		
_	istic (A3)			d Matrix (	ັດວາ ineral (F1)		Dark Surface (S7) (LRR G High Plains Depressions (F	•	
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b> :	E)		•	nierai (F1) /latrix (F2)		(LRR H outside of MLF	•	
_	uck (A9) (LRR F, G,			d Matrix			Reduced Vertic (F18)	(12 0 10)	
	d Below Dark Surfac	-			face (F6)		Red Parent Material (TF2)		
· ·	ark Surface (A12)	( , , , ,			surface (F7	)	Very Shallow Dark Surface	(TF12)	
_	Aucky Mineral (S1)			Depressi			Other (Explain in Remarks		
2.5 cm l	Mucky Peat or Peat	(S2) ( <b>LRR</b> (	<b>3, H</b> ) High Pl	ains Dep	ressions (F	16)	<sup>3</sup> Indicators of hydrophytic veget	tation and	
5 cm Mu	ucky Peat or Peat (S	3) ( <b>LRR F</b> )	(ML	RA 72 &	73 of LR	RH)	wetland hydrology must be present,		
							unless disturbed or probler	natic.	
Restrictive	Layer (if present):								
Type:									
Depth (in	ches):						Hydric Soil Present? Yes <u>√</u>	No	
Remarks:									
Hydric soil	criterion is met.								
HYDROLO	GY					-			
Wetland Hy	drology Indicators:								
Primary India	cators (minimum of	one require	d; check all that appl	ly)			Secondary Indicators (minim	um of two required)	
Surface	Water (A1)		Salt Crust	(B11)			Surface Soil Cracks (B6)	)	
High Wa	ater Table (A2)		Aquatic In	vertebrat	tes (B13)		Sparsely Vegetated Con	cave Surface (B8)	
Saturati	on (A3)		Hydrogen	Sulfide (	Odor (C1)		Drainage Patterns (B10)	•	
Water M	larks (B1)		Dry-Seaso	on Water	Table (C2	)	Oxidized Rhizospheres	on Living Roots (C3)	
Sedime	nt Deposits (B2)		✓ Oxidized F	Rhizosph	eres on Liv	ing Roots	(C3) (where tilled)		
Drift De	posits (B3)		(where	not tilled	i)		Crayfish Burrows (C8)		
Algal Ma	at or Crust (B4)		Presence	of Reduc	ced Iron (C	4)	Saturation Visible on Ae	rial Imagery (C9)	
Iron Dep	oosits (B5)		Thin Muck	Surface	(C7)		✓ Geomorphic Position (D.)	2)	
Inundati	on Visible on Aerial	lmagery (B	7) Other (Ex	plain in F	Remarks)		FAC-Neutral Test (D5)		
Water-S	tained Leaves (B9)						Frost-Heave Hummocks	(D7) (LRR F)	
Field Obser	vations:								
Surface Wat	er Present?	es	No ✓ Depth (in	ches): _		_			
Water Table			No ✓ Depth (in			· ·			
Saturation P			No ✓ Depth (in				tland Hydrology Present? Yes _	/ No	
(includes car	pillary fringe)								
Describe Re	corded Data (stream	gauge, mo	onitoring well, aerial	photos,	orevious in	spections)	), if available:		
Remarks:									
Data point i	s located within Fl	oodplain 2	Zone A. Adjacent	to uppe	r reaches	of lake.	Wetland hydrology criterion is m	net.	



Data Point 1 Lacustrine Fringe Wetlands



Data Point 2 Mesquite Woods



Data Point 3 Floodplain Meadows

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Data Point 4
Emergent Wetlands



Data Point 5 Emergent Wetlands



Data Point 6 Scrub/ Shrub Wetlands

T14 - Page 2



Data Point 6 Scrub/ Shrub Wetlands



Data Point 7
Floodplain Meadows



Data Point 8
Floodplain Meadows

T14 - Page 3



Data Point 9 Mesquite Woods



Data Point 10 Emergent Wetlands



Data Point 11 Floodplain Meadows

T14 - Page 4



Data Point 12 Riparian Woods (Green Ash/ Pecan)

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Project/Site: 130 Environmental Park		City/Co	ounty:	Lockhai	rt/Caldwell	Sampling Date: 06/24/2013
Applicant/Owner: 130 Environmental Park, LLC						Sampling Point: T15-DP1
Investigator(s): Troegle, Josh & Boe, Brian						
- ' '		Local	relief	(concave,	convex, none): Concav	/e Slope (%): 1
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: W - Water						cation: None available
Are climatic / hydrologic conditions on the site typical for thi	is time of ve	ar? Ye	_			
Are Vegetation, Soil, or Hydrology						present? Yes <u>√</u> No
Are Vegetation, Soil, or Hydrology					eeded, explain any answe	
SUMMARY OF FINDINGS – Attach site map						•
Hydrophytic Vegetation Present? Yes ✓ N	No		le th	e Sampled	I Area	
	10	- 1		n a Wetlar		No
	No		*********	n a vvenar	163	
Remarks:	1-1-					
Fringe of emergent wetland along western shore of	іаке.					
VEGETATION - Use scientific names of plan	nts.					
201	Absolute			Indicator	Dominance Test work	(sheet:
Tree Stratum (Plot size: 30'	<u>% Cover</u>				Number of Dominant S	
1.					That Are OBL, FACW, (excluding FAC-):	or FAC (A)
2. 3.					,	
4					Total Number of Domir Species Across All Stra	
		= Tota	al Cov	er	Percent of Dominant S	necies
Sapling/Shrub Stratum (Plot size: 15'					That Are OBL, FACW,	
1. Sesbania drummondii	_ 15	Yes		FACW	Prevalence Index wor	ksheet:
2		-			Total % Cover of:	
3						x 1 =
4. 5					FACW species	x 2 =
0	15	= Tota	al Cov	er	FAC species	x 3 =
Herb Stratum (Plot size: 5'					FACU species	x 4 =
1. Eleocharis palustris	- 80	Yes		OBL	UPL species	
2. Persicaria pensylvanicum	$-\frac{20}{30}$	No		FACW	Column Totals:	(A)(B)
3. Marsilea vestita	_ 30	Yes		OBL	Prevalence Index	c = B/A =
4					Hydrophytic Vegetation	on Indicators:
5.					1 - Rapid Test for I	Hydrophytic Vegetation
6					✓ 2 - Dominance Tes	st is >50%
8					3 - Prevalence Ind	
9.					4 - Morphological /	Adaptations <sup>1</sup> (Provide supporting s or on a separate sheet)
10						phytic Vegetation <sup>1</sup> (Explain)
201	130	= Tota	al Cov	er		
Woody Vine Stratum (Plot size: 30' ) 1					be present, unless distr	il and wetland hydrology must urbed or problematic.
2					Hydrophytic	
		= Tota	al Cov	er	Vegetation Present? Ye	es <u> </u>
% Bare Ground in Herb Stratum 0					. resent: Te	·
Emergent wetland fringe on shore of lake. Hydroph	vtic vegeta	ition c	riterio	on is met		
2	., +ogoid					

Sampling Point: T15-DP1

		to the dept				or confirr	n the absence of i	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	lox Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	) YR 3/1		5 YR 5/8	20	C	PL/M	Clay	Kemarks
	YR 2/1		5 YR 5/8	20	<u>c</u>	PL/M	Clay	
2-10	711(2/1		-			1 2/11/1	Olay	
				_				
100								
¹Type: C=Conce	entration D=De	oletion RM=	Reduced Matrix, (	S=Covere	d or Coate	ed Sand G	rains <sup>2</sup> l ocatio	n: PL=Pore Lining, M=Matrix.
			RRs, unless oth			od Odna O		Problematic Hydric Soils <sup>3</sup> :
Histosol (A1			Sandy					(A9) (LRR I, J)
Histic Epipe			Sandy	Redox (S	5)			rie Redox (A16) (LRR F, G, H)
Black Histic	• ,			ed Matrix (	,			ice (S7) (LRR G)
Hydrogen Si	, ,	`		/ Mucky Mi	. ,			s Depressions (F16)
_	yers (A5) (LRR A9) (LRR F, G,	,		/ Gleyed M ted Matrix (				outside of MLRA 72 & 73) /ertic (F18)
I —	low Dark Surfac	•	✓ Redox		. ,		_	t Material (TF2)
Thick Dark S		( , , , ,		ted Dark S	, ,	)		ow Dark Surface (TF12)
	y Mineral (S1)			Depression	ons (F8)		Other (Exp	olain in Remarks)
	y Peat or Peat			Plains Depr				ydrophytic vegetation and
5 cm Mucky	Peat or Peat (S	3) ( <b>LRR F</b> )	(M	LRA 72 &	73 of LRF	R H)	-	drology must be present,
Restrictive Laye	er (if present):						dilless disc	urbed or problematic.
							1	
1	s):						Hydric Soil Pre	sent? Yes ✓ No
Remarks:								
Hydric soil crite	rion is met.							
								( <u> </u>
HYDROLOGY								
Wetland Hydrol								
		one required	; check all that ap					ndicators (minimum of two required)
Surface Wat	` ,		Salt Crus	` '				Soil Cracks (B6)
High Water	, ,		— .	nvertebrate	,			y Vegetated Concave Surface (B8)
Saturation (A	-			n Sulfide C son Water				e Patterns (B10)
Water Marks Sediment De	` '		✓ Oxidized					d Rhizospheres on Living Roots (C3) e tilled)
Drift Deposit				not tilled		ing recots	` '	Burrows (C8)
Algal Mat or			,	of Reduc	•	4)	_ ,	on Visible on Aerial Imagery (C9)
Iron Deposits	, ,			k Surface		.,		phic Position (D2)
Inundation V	isible on Aerial	Imagery (B7		xplain in R			✓ FAC-Ne	utral Test (D5)
Water-Staine	ed Leaves (B9)						Frost-He	eave Hummocks (D7) (LRR F)
Field Observation	ons:							
Surface Water Pi			lo <u>√</u> Depth (i					
Water Table Pres			lo <u>✓</u> Depth (i					
Saturation Prese		′es N	lo <u>✓</u> Depth (i	nches):		Wet	land Hydrology Pro	esent? Yes ✓ No
(includes capillar Describe Record		gauge moi	nitoring well, aeria	photos n	revious ins	spections	if available:	
20001100 1100010	a a a a a a a a a a a a a a a a a a a			, р		, p = 5		
Remarks:								
	ated on fringe	e of lake on	Floodplain Zon	e A. Seve	eral indica	ators obs	erved. Wetland h	nydrology criterion is met.
	3			•				, , , , , , , , , , , , , , , , , , , ,
.,						***************************************		

Project/Site: 130 Environmental Park		City/C	ounty: Lockh	art/Caldwell	Sampling Date: 06/24/2013
Applicant/Owner: 130 Environmental Park, LLC		-			_ Sampling Point: T15-DP2
Landform (hillslope, terrace, etc.): Lake shore					Slope (%): 0
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: MaB - Mabank Ioam, 1-3%					fication: None available
·					
Are climatic / hydrologic conditions on the site typical f					
Are Vegetation, Soil, or Hydrology					"present? Yes ✓ No
Are Vegetation, Soil, or Hydrology	naturally pro	blema	tic? (If	needed, explain any answ	vers in Remarks.)
SUMMARY OF FINDINGS – Attach site n	nap showing	sam	pling point	locations, transect	ts, important features, etc.
Hydrophytic Vegetation Present? Yes	No <u>√</u>		to the Coursell	. 4	
	No ✓		Is the Sample		No <u>√</u>
	No ✓		within a Wetl	and? Yes	No <u>*</u>
Remarks:					•
Grass meadow, outside fringe wetland along la	ke				
VEGETATION – Use scientific names of					
Tree Stratum (Plot size: 30'	Absolute % Cover		inant Indicator cies? Status		
1				<ul> <li>Number of Dominant</li> <li>That Are OBL, FACW</li> </ul>	
				(excluding FAC-):	1 (A)
2				−   _	inant
4.				Species Across All St	2
7.		= Tota	al Cover	- Boroont of Deminent	Sancian
Sapling/Shrub Stratum (Plot size: 15'	.)	700		Percent of Dominant That Are OBL, FACW	
1. Prosopis glandulosa	5	Yes	FACU		
2. <u>Ulmus crassifolia</u>	2	Yes	FAC	Prevalence Index wo	
3				1	: Multiply by:
4					x 1 = x 2 =
5				_	x 3 =
Herb Stratum (Plot size: 5')	7	= Tota	al Cover		x 4 =
1. Buchloe dactyloides	80	Yes	UPL		x 5 =
2. Cynodon dactylon	10	No	FACU	_	(A) (B)
3 Solanum elaeagnifolium	5	No	UPL		(7) (2)
4				Prevalence Inde	ex = B/A =
5				Hydrophytic Vegeta	tion Indicators:
6					r Hydrophytic Vegetation
7.				2 - Dominance Te	
8.				3 - Prevalence In	
9.					Adaptations <sup>1</sup> (Provide supporting ks or on a separate sheet)
10.					ophytic Vegetation <sup>1</sup> (Explain)
201	95	= Tota	al Cover		
Woody Vine Stratum (Plot size: 30'				Indicators of hydric s	oil and wetland hydrology must sturbed or problematic.
1					Autoba of problematic.
2				_ Hydrophytic	
% Bare Ground in Herb Stratum 5		= Tota	al Cover	Vegetation Present? Y	'es No <u>√</u>
Remarks:					
Upland grass area near lake shore. Hydrophyti	ic vegetation or	iterio	n is not met		

Profile Des	cription: (Describ	e to the depth n	eeded to docu	nent the	indicator (	or confirm	the absence of indicators.	
Depth	Matrix	% (	Redo	x Feature %		_Loc <sup>2</sup>	Texture	Remarks
(inches)	Color (moist) 10 YR 3/1	100	JOIOT (MOIST)		Type	_LUC		remarks
0-16	10 YR 3/1							
						-		
	oncentration, D=De					d Sand Gr		e Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to all LRF					Indicators for Problemat	-
Histoso	I (A1)			Gleyed Ma			1 cm Muck (A9) (LRF	- •
ı —	pipedon (A2)			Redox (S			Coast Prairie Redox (	
	listic (A3)			d Matrix (S			Dark Surface (S7) (L	•
	en Sulfide (A4)		_ ′	•	neral (F1)		High Plains Depression	
	d Layers (A5) (LRF			Gleyed M ed Matrix (			(LRR H outside o Reduced Vertic (F18)	
_	uck (A9) (LRR F, G			Dark Surfa			Red Parent Material (	
· — ·	d Below Dark Surfa ark Surface (A12)	105 (ATT)			urface (F7)		Very Shallow Dark St	
	Mucky Mineral (S1)			Depressio			Other (Explain in Ren	
	Mucky Peat or Pea		_		essions (F	16)	3Indicators of hydrophytic	
	ucky Peat or Peat (				73 of LRR	•	wetland hydrology mu	-
_							unless disturbed or pr	roblematic.
Restrictive	Layer (if present):							
Type:			_					
'' -	iches):						Hydric Soil Present? Y	es No ✓
Remarks:	,							
	oil indicators obs	erved						
i to nyano s	on marcatore esc	0.1100.						
						_		
HYDROLO	GY							
Wetland Hy	drology Indicator	s:						
Primary Indi	cators (minimum o	f one required; ch	neck all that app	ly)			Secondary Indicators (r	minimum of two required)
	Water (A1)		Salt Crust				Surface Soil Crack	s (B6)
_	ater Table (A2)		Aquatic Ir		es (B13)			d Concave Surface (B8)
Saturat			Hydrogen				Drainage Patterns	
_	//arks (B1)				Table (C2)			eres on Living Roots (C3)
_	nt Deposits (B2)		— ,		eres on Liv			
1 —	posits (B3)			not tilled		g . tooto	Crayfish Burrows (	C8)
_	at or Crust (B4)		Presence			1)		on Aerial Imagery (C9)
	posits (B5)		Thin Mucl			•,	Geomorphic Positi	
ı —	ion Visible on Aeria	I Imagen/ (R7)	Other (Ex				FAC-Neutral Test (	
			Outer (Ex	piairiirik	cinains			nocks (D7) (LRR F)
	Stained Leaves (B9	)					Trost-rieave ridini	nocks (D1) (ERRT)
Field Obse		Maria Nia	/ Daniel (5)	-11-				
	ter Present?	Yes No						
Water Table	Present?	Yes No _						,
Saturation F		Yes No	✓ Depth (ir	iches):	W.	_ Wetl	and Hydrology Present? \	/es No <u>√</u>
(includes ca	pillary fringe) ecorded Data (strea	m dauge monito	oring well serial	photos p	revious ins	nections)	if available	
Describe Re	wided Data (Sifea	iiii gauge, monit	Zinig wen, aenai	ρποιος, μ		, podiono),	stallably.	
Remarks:							M. H J. L L	- In a shared
Data point	is located on Floo	odplain Zone A	; nowever no	other indi	cators ob	served. \	Wetland hydrology criterior	n is not met.

Project/Site: 130 Environmental Park	(	Citv/C	ounty:	Lockha	rt/Caldwell	Sampling Date:	06/24/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		
					convex, none): Conca	ve si	one (%). 3
Subregion (LRR): J - Southwestern Prairies							
Soil Map Unit Name: Ts - Tinn soils, frequently floor					NWI classif		
Are climatic / hydrologic conditions on the site typical for t							, and a
					"Normal Circumstances"		/ Na
Are Vegetation, Soil, or Hydrology							NO
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS – Attach site ma					eeded, explain any answ ocations, transect	•	eatures, etc.
			-	<u> </u>	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Hydrophytic Vegetation Present? Yes ✓	No		Is th	e Sampled			
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No ▼		with	in a Wetlar	nd? Yes	No <u>√</u>	_
Remarks:		1					
Swale in cedar elm/post oak woods, east of strear	n channel.						
,							
	·						
VEGETATION – Use scientific names of pla	ants.						
30'	Absolute			Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30'	<u>% Cover</u>				Number of Dominant		
1,					That Are OBL, FACW (excluding FAC+):	, or FAC _2	(A)
3.					Total Number of Demi	inont	
4					Total Number of Domi Species Across All Str	rata: 2	(B)
7.		= Tota	al Cov		Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15'					That Are OBL, FACW		(A/B)
1. Ulmus crassifolia		Yes		FAC	Prevalence Index wo	rkehoot:	
2					Total % Cover of:		alv by:
3					OBL species		
4					FACW species		
5					FAC species		
Herb Stratum (Plot size: 5'		= Tota	ai Cov	/er	FACU species		
1. Carex brevior	60	Yes		FAC		x 5 =	
2. Iva annua	5	No		FAC	Column Totals:		
3. Elymus virginicus	15	No		FAC	Provolence Inde	x = B/A =	
4. Paspalum laeve	15	No		FACW	Hydrophytic Vegetat		
5. Ambrosia psilostachya	5	No		FACU	1 - Rapid Test for		etation
6					✓ 2 - Dominance Te		Station
7					3 - Prevalence Inc		
8					4 - Morphological	Adaptations <sup>1</sup> (Pro	vide supporting
9					data in Remar	ks or on a separat	e sheet)
10					Problematic Hydro	ophytic Vegetatior	n¹ (Explain)
Woody Vine Stratum (Plot size: 30')		- 100	ai Cov	VEI	<sup>1</sup> Indicators of hydric so		
1					be present, unless dis	turbed or problem	atic.
2					Hydrophytic		
% Bare Ground in Herb Stratum 0		= Tot	al Cov	ver	Vegetation Present? Y	es No _	
Remarks:							
Herbaceous swale within upland woods. Hydroph	ytic vegetati	on cr	iterio	n is met.			

Profile Des	cription: (Describe	to the depth ne				or confirm	n the absence of	indicators.)
Depth	Matrix			K Feature:		_Loc <sup>2</sup>	Tavitus	Domento
(inches)	Color (moist)		olor (moist)	%	Type <sup>1</sup>	_Loc	Texture _	Remarks
0-16	10 YR 2/1	_ 100					Clay	
			-					
				-				
	oncentration, D=De					ed Sand G		ion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applie	cable to all LRRs						r Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)			Sleyed Ma				ck (A9) ( <b>LRR I, J</b> )
	pipedon (A2)			Redox (S5				airie Redox (A16) (LRR F, G, H)
	listic (A3)			Matrix (S				face (S7) (LRR G)
	en Sulfide (A4)	<b>F</b> \			neral (F1)			ns Depressions (F16)
_	d Layers (A5) (LRR			Gleyed Ma d Matrix (I			•	H outside of MLRA 72 & 73) Vertic (F18)
_	uck (A9) (LRR F, G,			a Matrix (i )ark Surfa	•			ent Material (TF2)
	d Below Dark Surfac ark Surface (A12)	∞ (A 11)	_		ice (F6) irface (F7)	)		llow Dark Surface (TF12)
	Mucky Mineral (S1)			) epressio		,		(plain in Remarks)
	Mucky Peat or Peat	(S2) (LRR G. H)		•	essions (F	16)		hydrophytic vegetation and
	ucky Peat or Peat (S				73 of LRR			ydrology must be present,
_		, ,						sturbed or problematic.
Restrictive	Layer (if present):							
Type:								
	iches):						Hydric Soil Pr	resent? Yes No _
Remarks:	,							
	oil indicators obse	erved						
i vo riyano o	on maioatoro obco							
HYDROLO	GY							
Wetland Hy	drology Indicators	•						
Primary Indi	cators (minimum of	one required; che	eck all that appl	y)			Secondary	Indicators (minimum of two required)
Surface	Water (A1)		Salt Crust	(B11)			Surfac	e Soil Cracks (B6)
	ater Table (A2)		Aquatic Inv	vertebrate	es (B13)		Sparse	ely Vegetated Concave Surface (B8)
Saturati			Hydrogen					ge Patterns (B10)
	Marks (B1)		Dry-Seaso			)		ed Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized F					ere tilled)
Drift De				not tilled)		Ū		sh Burrows (C8)
	at or Crust (B4)		Presence	,		4)		tion Visible on Aerial Imagery (C9)
Iron De			Thin Muck			,		orphic Position (D2)
	ion Visible on Aerial	Imagery (R7)	Other (Exp					leutral Test (D5)
_	Stained Leaves (B9)		01101 (EX	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	omanio,			Heave Hummocks (D7) (LRR F)
								Teate Hammooks (B) (EIRT)
Field Obser		Man Man	/ Double /im	ahaa\.				
		Yes No _v						
Water Table		Yes No <u>v</u>						
Saturation F		Yes No <u>v</u>	Depth (in	ches):		Wet	liand Hydrology F	Present? Yes No ✓
(Includes ca	pillary fringe) ecorded Data (strear	n gauge monitor	ing well aerial	photos n	revious inc	spections)	if available:	
Describe Re	oolueu Daid (siiedi	gaage, monitor	gon, acrial	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	STIDUS III	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, a. aliabio.	
Remarks:		d-1-1- 7		-41	lante :		mund 187-41	
Data point	is in swale on Floo	oapiain ∠one A	; nowever no	otner ind	icators w	ere obse	ervea. vvetland i	nydrology criterion is not met.
								7.000

Project/Site: 130 Environmental Park		City/Co	ounty:	Lockha	rt/Caldwell	Samplin	g Date: 0	6/24/2013
Applicant/Owner: 130 Environmental Park, LLC					State: TX		_	
Landform (hillslope, terrace, etc.): Swale						e	Sione	- (%). 4
Subregion (LRR): J - Southwestern Prairies								
Soil Map Unit Name: FEE - Fett gravelly soils, 1-120					NWI classific			
Are climatic / hydrologic conditions on the site typical for thi								14510
					(Il 110, explain ill R 'Normal Circumstances" p			NI-
Are Vegetation, Soil, or Hydrology								NO
Are Vegetation, Soil, or Hydrology					eeded, explain any answe			
SUMMARY OF FINDINGS – Attach site map	snowing	sam	pling	g point i	ocations, transects	, impoi	tant fea	tures, etc.
Hydrophytic Vegetation Present? Yes <u>✓</u> N	lo		le the	e Sampled	ΙΔτοα			
Hydric Soil Present? Yes N	10 🔨			in a Wetlaı		No	✓	
Wetland Hydrology Present? Yes N	10 <u>√</u>		******					
Remarks:								
Carex in grassland swale								
VEGETATION - Use scientific names of plan	nts.							
201	Absolute			Indicator	Dominance Test work	sheet:		
Tree Stratum (Plot size: 30'	% Cover				Number of Dominant Sp	pecies		
1					That Are OBL, FACW, (excluding FAC-):	or FAC	1	(A)
2								
3					Total Number of Domin Species Across All Stra		1	(B)
4		- Tots	al Cov					(5)
Sapling/Shrub Stratum (Plot size: 15'		_ 1016	ai 00v	CI	Percent of Dominant Sp That Are OBL, FACW, of		100	(A/B)
1								
2					Prevalence Index work		B. 4 145 1 1	L
3					Total % Cover of: OBL species			
4					FACW species			
5					FAC species			
Herb Stratum (Plot size: 5')		= Tota	al Cov	er	FACU species			
1 Carex brevior	90	Yes		FAC	UPL species			
2. Phalaris caroliniana	10	No		FACW	Column Totals:			(B)
3. Solanum elaeagnifolium	5	No		UPL			/	(2)
4. Iva annua	5	No		FAC	Prevalence Index			
5.					Hydrophytic Vegetation			
6.					1 - Rapid Test for H		•	ion
7					✓ 2 - Dominance Tes			
8.					3 - Prevalence Inde			
9					4 - Morphological A data in Remarks	daptation or on a	ns' (Provid separate s	e supporting heet)
10					Problematic Hydron			•
201	110	= Tota	al Cov	er				. ,
Woody Vine Stratum (Plot size: 30'					<sup>1</sup> Indicators of hydric soil be present, unless distu			
1					Hadaaahada			
2		- Tota	ol Cov		Hydrophytic Vegetation			
% Bare Ground in Herb Stratum 0		. ~ 10ta	ai Cov	ei	Present? Yes	5 <u> </u>	No	
Remarks:								
Hydrophytic vegetation criterion is met.								

Depth Ma	trix	Redo	x Features					
(inches) Color (moi		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-16 10 YR 3/1	100					Clay		
								-
							-	
								1477.00
Type: C=Concentration, D	=Depletion, RM=	Reduced Matrix, Co	S=Covered	or Coated	Sand G	rains. <sup>2</sup> Loca	ation: PL=Pore Lini	ng, M=Matrix.
lydric Soil Indicators: (A	pplicable to all L	RRs, unless othe	rwise note	d.)		Indicators 1	for Problematic Hy	dric Soils <sup>3</sup> :
Histosol (A1)		Sandy	Gleyed Mat	rix (S4)		1 cm M	uck (A9) ( <b>LRR I, J</b> )	
Histic Epipedon (A2)		Sandy I	Redox (S5)			Coast F	Prairie Redox (A16)	(LRR F, G, H)
Black Histic (A3)			d Matrix (S6				urface (S7) (LRR G	•
_ Hydrogen Sulfide (A4)			Mucky Mine	, ,			ains Depressions (F	
_ Stratified Layers (A5) (		_ ′	Gleyed Mat	` ,		•	R H outside of MLF	(A 72 & 73)
1 cm Muck (A9) (LRR			ed Matrix (F	-		_	ed Vertic (F18)	
Depleted Below Dark S			Dark Surfac ed Dark Surf	. ,			rent Material (TF2) nallow Dark Surface	(TE12)
<ul> <li>Thick Dark Surface (A'</li> <li>Sandy Mucky Mineral (</li> </ul>			Depression:	. ,			Explain in Remarks)	
2.5 cm Mucky Peat or			ains Depres		6)		of hydrophytic veget	
5 cm Mucky Peat or Pe			RA 72 & 73		-		hydrology must be	
	,,,,	•			,		disturbed or problen	
Restrictive Layer (if prese	ent):							
Type:								
//		_				Hydric Soil I	Present? Yes	No <u></u> ✓
Depth (inches):						Hydric Soil I	Present? Yes	No <u>√</u>
Depth (inches):						Hydric Soil I	Present? Yes	No <u>✓</u>
Depth (inches):			,			Hydric Soil I	Present? Yes	No <u>√</u>
Depth (inches):						Hydric Soil I	Present? Yes	No <u>√</u>
Depth (inches): Remarks: to hydric soil indicators						Hydric Soil I	Present? Yes	No_ <u>√</u>
Depth (inches):Remarks: lo hydric soil indicators	observed.					Hydric Soil I	Present? Yes	No <u>√</u>
Depth (inches): Remarks: o hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators	observed.		lv)					
Depth (inches): Remarks: o hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimu	observed.	; check all that app				Secondar	ry Indicators (minim	um of two required
Depth (inches): temarks: to hydric soil indicators  YDROLOGY Vetland Hydrology Indication (minimum of the content of th	observed. ators: m of one required	; check all that app	(B11)	s (B13)		Secondar Surfa	ry Indicators (minimace Soil Cracks (B6)	um of two required
Depth (inches): iemarks: o hydric soil indicators  /DROLOGY /etland Hydrology Indicators (minimu Surface Water (A1) High Water Table (A2)	observed. ators: m of one required	; check all that app Salt Crust Aquatic In	(B11) vertebrates	(- · · · )		Secondal Surfa	ry Indicators (minim ace Soil Cracks (B6) sely Vegetated Con	um of two required ) cave Surface (B8)
Depth (inches): temarks: o hydric soil indicators  /DROLOGY /etland Hydrology Indicators /mary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)	observed. ators: m of one required	: check all that app Salt Crust Aquatic In Hydrogen	(B11) vertebrates Sulfide Ode	or (C1)		Secondal Surfa Spar Drair	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Conage Patterns (B10)	um of two required cave Surface (B8)
Depth (inches): Remarks: o hydric soil indicators  YDROLOGY  Wetland Hydrology Indicators  Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	observed. ators: m of one required	: check all that app Salt Crust Aquatic In Hydrogen Dry-Seaso	(B11) vertebrates Sulfide Odo on Water Ta	or (C1) able (C2)	ag Poole	Secondal Surfa Spar Drair Oxidi	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres (	um of two required cave Surface (B8)
Depth (inches): Remarks: In hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	observed. ators: m of one required	: check all that app Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere	or (C1) able (C2)	ng Roots	Secondal Surfa Spar Drair Oxidi (C3)	ry Indicators (minim ace Soil Cracks (B6) sely Vegetated Con nage Patterns (B10) ized Rhizospheres o here tilled)	um of two required cave Surface (B8)
Depth (inches): Remarks: o hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators  Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	observed.  ators: m of one required	: check all that app Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled)	or (C1) able (C2) es on Livi	_	Secondar  Surfa  Spar  Drair  Oxidi  (C3) (wl	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres ohere tilled)	um of two required cave Surface (B8) on Living Roots (C
Depth (inches): Remarks: Io hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	observed.  ators: m of one required	scheck all that app Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced	or (C1) able (C2) es on Livi	_	Secondar  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satu	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres ohere tilled) fish Burrows (C8) ration Visible on Aei	um of two required cave Surface (B8) on Living Roots (C
Depth (inches): Remarks: lo hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators (minimu	observed.  ators: m of one required	: check all that app  Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C	or (C1) able (C2) es on Livi d Iron (C4	_	Secondar  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satur  ✓ Geor	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2)	um of two required cave Surface (B8) on Living Roots (C
Depth (inches): Remarks: lo hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators (minimu	observed.  ators: m of one required  2)	: check all that app  Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced	or (C1) able (C2) es on Livi d Iron (C4	_	Secondal  Surfa Spar Drair Oxidi (C3) (wl) Cray Satul ✓ Geor FAC-	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of the tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2).	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9)
Depth (inches):	observed.  ators: m of one required  2)	: check all that app  Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C	or (C1) able (C2) es on Livi d Iron (C4	_	Secondal  Surfa Spar Drair Oxidi (C3) (wl) Cray Satul ✓ Geor FAC-	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2)	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9)
Depth (inches):	observed.  ators: m of one required  2)  verial Imagery (B7 (B9)	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck	(B11) vertebrates Sulfide Odo on Water Ta Rhizosphere not tilled) of Reduced c Surface (C	or (C1) able (C2) es on Livii d Iron (C4 C7) marks)	)	Secondal  Surfa Spar Drair Oxidi (C3) (wl) Cray Satul ✓ Geor FAC-	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of the tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2).	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9)
Depth (inches):	observed.  ators: m of one required  2)  verial Imagery (B7 (B9)	Salt Crust  Aquatic In  Hydrogen  Dry-Sease  Oxidized I  (where  Presence  Thin Muck  Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren	or (C1) able (C2) es on Livir d Iron (C4 C7) marks)	_	Secondal  Surfa Spar Drair Oxidi (C3) (wl) Cray Satul ✓ Geor FAC-	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of the tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2).	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9)
Depth (inches):	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren aches):	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)		Secondar  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satur  ✓ Geor  FAC-	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2-Neutral Test (D5) t-Heave Hummocks	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9) 2) (D7) (LRR F)
Depth (inches):  Remarks: Io hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on A Water-Stained Leaves  Field Observations: Surface Water Present?  Vater Table Present?	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N	Salt Crust  Aquatic In  Hydrogen  Dry-Sease  Oxidized I  (where  Presence  Thin Muck  Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren aches):	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)		Secondar  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satur  ✓ Geor  FAC-	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of the tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2).	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9) 2) (D7) (LRR F)
Depth (inches):	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N Yes N	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren uches): uches):	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)	) Wet	Secondai  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satu  Geor  FAC- Frost	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2-Neutral Test (D5) t-Heave Hummocks	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9) 2) (D7) (LRR F)
Depth (inches):	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N Yes N	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren uches): uches):	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)	) Wet	Secondai  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satu  Geor  FAC- Frost	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2-Neutral Test (D5) t-Heave Hummocks	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9) 2) (D7) (LRR F)
Depth (inches):	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N Yes N	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11) vertebrates Sulfide Ode on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Ren uches): uches):	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)	) Wet	Secondai  Surfa Spar  Drair  Oxidi  (C3) (wl  Cray  Satu  Geor  FAC- Frost	ry Indicators (minimace Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2-Neutral Test (D5) t-Heave Hummocks	um of two required cave Surface (B8) on Living Roots (C rial Imagery (C9) 2) (D7) (LRR F)
Depth (inches):  Remarks: Io hydric soil indicators  YDROLOGY  Vetland Hydrology Indicators  Primary Indicators (minimu  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on A  Water-Stained Leaves  Field Observations:  Surface Water Present?  Nater Table Present?  Saturation Present?  Saturation Present?  Saturation Present?  Secribe Recorded Data (stopographic map  Remarks:	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N Yes N tream gauge, mo	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11)  vertebrates Sulfide Odo on Water Ta Rhizosphere not tilled) of Reduced c Surface (C plain in Rer  uches): uches): photos, pre	or (C1) able (C2) es on Livi d Iron (C4 C7) marks)	Wet	Secondal  Surfa Surfa Spar Oxidi (C3) (wl Cray Satur ✓ Geor FAC- Frost	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2) i-Heave Hummocks	um of two required cave Surface (B8) on Living Roots (Crial Imagery (C9) (D7) (LRR F)
Depth (inches):	observed.  ators: m of one required  2)  Aerial Imagery (B7 (B9)  Yes N Yes N tream gauge, mo ale on Floodplai	Salt Crust Aquatic In Hydrogen Dry-Sease Oxidized I (where Presence Thin Muck Other (Ex	(B11)  vertebrates Sulfide Odo on Water Ta Rhizosphere not tilled) of Reduced of Surface (Co plain in Rer aches): photos, pre	or (C1) able (C2) es on Livir d Iron (C4 C7) marks) evious insp	Wet	Secondal  Surfa Surfa Spar Oxidi (C3) (wl Cray Satur ✓ Geor FAC- Frost	ry Indicators (minimates Soil Cracks (B6) sely Vegetated Connage Patterns (B10) ized Rhizospheres of there tilled) fish Burrows (C8) ration Visible on Aemorphic Position (D2) i-Heave Hummocks	um of two required cave Surface (B8 on Living Roots (C) rial Imagery (C9) (D7) (LRR F)

Project/Site: 130 Environmental Park		City/Coun	<sub>ity:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T15-DP5
Investigator(s): Troegle, Josh & Boe, Brian			Γownship, Ra		
					ve Slope (%): 0
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: W - Water					ication: None available
Are climatic / hydrologic conditions on the site typical for the	s time of ve	ar? Yes			
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					,
Hydrophytic Vegetation Present? Yes ✓ N	lo.			-	
Hydric Soil Present? Yes ✓ N	lo		the Sampled		
	lo	WI	thin a Wetlar	nd? Yes <u>▼</u>	No
Remarks:					
Emergent wetland fringe along north shore of lake.					
VEGETATION – Use scientific names of plan	ıte				- 1 - 1
VEGETATION - 636 Scientific flames of plan	Absolute	Domina	nt Indicator	Dominance Test wor	ksheet.
Tree Stratum (Plot size: 30'			? Status	Number of Dominant S	
1				That Are OBL, FACW,	or FAC
2				(excluding FAC-):	<u>2</u> (A)
3				Total Number of Domi	nant
4				Species Across All Str	ata: <u>2</u> (B)
Sapling/Shrub Stratum (Plot size: 15' )		= Total C	over	Percent of Dominant S	
Sesbania drummondii	5	Yes	FACW	That Are OBL, FACW,	or FAC: 100 (A/B)
2				Prevalence Index wo	rksheet:
3.				Total % Cover of:	Multiply by:
4				· ·	x 1 =
5					x 2 =
- £1	5	= Total C	over		x 3 =
Herb Stratum (Plot size: 5'  1. Eleocharis quadrangulata	100	Yes	OBL	1	x 4 =
2 Persicaria pensylvanicum	15	No	FACW		x 5 =
3 Xanthium strumarium	- 2	No	FAC	Column Totals.	(A) (B)
0.				Prevalence Index	x = B/A =
4.       5.				Hydrophytic Vegetati	on Indicators:
6.					Hydrophytic Vegetation
7				✓ 2 - Dominance Te	
8				3 - Prevalence Ind	·
9				4 - Morphological .	Adaptations <sup>1</sup> (Provide supporting sor on a separate sheet)
10					ophytic Vegetation <sup>1</sup> (Explain)
201	117	= Total C	over		
Woody Vine Stratum (Plot size: 30'				be present, unless dist	oil and wetland hydrology must turbed or problematic.
1				I de ade a se la disc	
2		= Total C		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0	-	- Total C	.0461	Present? Ye	es No
Remarks:					
Emergent wetland dominated by spikerush. Hydrop	hytic vege	tation cri	iterion is me	t.	

	Matrix		Red	ox Featur	es			
Depth (inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 3/1	70	10 YR 4/6	30	С	М	Clay	
11-16	10 YR 3/1	60	10 YR 4/4	20	С	М		
			10 YR 4/1	10	D			
			10 YR 4/6	10		M/PL		
			10 111 470		- —	141/1 2		
				-				
				_				
¹Type: C=C	Concentration, D=De	epletion, RM	1=Reduced Matrix, C	S=Cover	ed or Coat	ed Sand C	Grains. <sup>2</sup> Location	on: PL=Pore Lining, M=Matrix.
			I LRRs, unless other					Problematic Hydric Soils <sup>3</sup> :
Histoso	l (A1)		Sandy	Gleyed M	latrix (S4)		1 cm Muc	k (A9) ( <b>LRR I, J</b> )
	pipedon (A2)			Redox (S	,			irie Redox (A16) (LRR F, G, H)
_	listic (A3)			ed Matrix	,			ace (S7) (LRR G)
	en Sulfide (A4)	. = \		•	ineral (F1)			s Depressions (F16)
_	d Layers (A5) (LRF	•		<sup>,</sup> Gleyed N ed Matrix	Matrix (F2)			I outside of MLRA 72 & 73) Vertic (F18)
_	uck (A9) ( <b>LRR F, G</b> ed Below Dark Surfa		✓ Redox		` '		_	vertic (F18) nt Material (TF2)
	ark Surface (A12)	ice (A11)			surface (F7	)		low Dark Surface (TF12)
	Mucky Mineral (S1)			Depressi		,		plain in Remarks)
	Mucky Peat or Pea		<b>G, H</b> ) High P	lains Dep	ressions (I	16)		nydrophytic vegetation and
5 cm M	ucky Peat or Peat (	S3) (LRR F	) (M	LRA 72 8	73 of LRI	RH)	wetland hy	drology must be present,
							unless dis	turbed or problematic.
Restrictive	Layer (if present):							
Туре:								
Depth (in	nches):						Hydric Soil Pro	esent? Yes ✓ No
Remarks:								
Hydric soil								
113 4110 0011	criterion is met.							
11,4110 0011	criterion is met.							
HYDROLO	OGY							
HYDROLO	OGY /drology Indicators				-			
HYDROLO	OGY /drology Indicators		ed; check all that app					Indicators (minimum of two required)
HYDROLO Wetland Hy Primary Indi	OGY /drology Indicators		ed; check all that app				Surface	Soil Cracks (B6)
HYDROLO Wetland Hy Primary Indi	OGY /drology Indicators icators (minimum of			t (B11)	des (B13)		Surface Sparse	e Soil Cracks (B6) ly Vegetated Concave Surface (B8)
HYDROLO Wetland Hy Primary Indi	OGY /drology Indicators icators (minimum of Water (A1) ater Table (A2)		Salt Crus Aquatic Ii Hydroger	it (B11) nvertebra n Sulfide (	Odor (C1)		Surface Sparse Drainag	e Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati	OGY /drology Indicators icators (minimum of Water (A1) ater Table (A2)		Salt Crus Aquatic li Hydroger Dry-Seas	it (B11) nvertebra n Sulfide ( son Water	Odor (C1) Table (C2		Surface Sparse Drainaç Oxidize	e Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M	ody vdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3)		Salt Crus Aquatic Ii Hydroger	it (B11) nvertebra n Sulfide ( son Water	Odor (C1) Table (C2		Surface Sparse Drainaç Oxidize	e Soil Cracks (B6) ly Vegetated Concave Surface (B8) ge Patterns (B10)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime	OGY /drology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1)		Salt Crus Aquatic li Hydroger Dry-Seas Oxidized	it (B11) nvertebra n Sulfide ( son Water	Odor (C1) Table (C2 eres on Li		Surface Sparse Drainag Oxidize s (C3) (whe Crayfis	e Soil Cracks (B6)  ly Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De	OGY  ydrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3) Marks (B1) ent Deposits (B2)		Salt Crus Aquatic li Hydroger Dry-Seas Oxidized	ot (B11)  nvertebrar  n Sulfide (  con Water  Rhizosph  not tilled	Odor (C1) Table (C2 eres on Li i) ced Iron (C	ving Roots	Surface Sparse Drainag Oxidize s (C3) Crayfis Saturat	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) bd Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Algal M	order of the control		Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where	ot (B11)  nvertebrar  n Sulfide (  con Water  Rhizosph  not tilled	Odor (C1) Table (C2 eres on Li i) ced Iron (C	ving Roots	Surface Sparse Drainag Oxidize s (C3) Crayfis Saturat Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Algal M Iron De	order (A1) cater (A1) cater Table (A2) con (A3) Marks (B1) con (Deposits (B2) con (B3) con (B3) con (B3) con (B3) con (B3) con (B3) con (B4)	f one require	Salt Crus Aquatic In Hydroger Dry-Seas Oxidized	ot (B11) Invertebrate In Sulfide (Inson Water Rhizosphe Inot tilled In Reduction Reduc	Odor (C1) Table (C2 eres on Li i) ced Iron (C	ving Roots	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S	or variable (A2) icators (minimum of the Water (A1) ater Table (A2) ion (A3) Marks (B1) and Deposits (B2) aposits (B3) at or Crust (B4) posits (B5) ion Visible on Aeria Stained Leaves (B9)	f one require	Salt Crus Aquatic In Hydroger Dry-Seas Oxidized	ot (B11) Invertebrate In Sulfide (Inson Water Rhizosphe Inot tilled In Reduction Reduc	Odor (C1) Table (C2 eres on Li i) ced Iron (C	ving Roots	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M Sedime Drift De Algal M Iron De	order of the control	f one require al Imagery (I	Salt Crus Aquatic In Hydroger Dry-Seas Oxidized	at (B11) Invertebrat In Sulfide ( Ison Water Rhizosph In not tilled It of Reduct It Surface It splain in F	Odor (C1) Table (C2 eres on Li i) ced Iron (C (C7) Remarks)	ving Roots 4)	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S	order of the control	I Imagery (I	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	at (B11) Invertebrai In Sulfide (Invertebrai In Sulfide (Invertebrai Invertebrai Invertebr	Odor (C1) Table (C2 eres on Li i) ced Iron (C (C7) Remarks)	ving Roots 4)	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S	order of the control	I Imagery (I ) Yes	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	st (B11) nvertebrain Sulfide ( son Water Rhizosph not tilled e of Reduct k Surface k plain in F	Odor (C1) Table (C2 eres on Li i) Ced Iron (C c (C7) Remarks)	ving Roots 4)	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S Field Obser Surface Water Table Saturation F	order of the control	I Imagery (I ) Yes	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	st (B11) nvertebrain Sulfide ( son Water Rhizosph not tilled e of Reduct k Surface k plain in F	Odor (C1) Table (C2 eres on Li i) Ced Iron (C c (C7) Remarks)	ving Roots 4)	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo FAC-Ne	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca	order of the control	I Imagery (I )  Yes Yes	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	at (B11) Invertebration Sulfide (Son Water Rhizosphe not tilled to Graduation in Funches):nch	Odor (C1) Table (C2 eres on Li i) Ced Iron (C c (C7) Remarks)	ving Roots 4) We	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) leave Hummocks (D7) (LRR F)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S Field Obset Surface Wa Water Table Saturation F (includes ca	order of the control	I Imagery (I )  Yes Yes	Salt Crus Aquatic II Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	at (B11) Invertebration Sulfide (Son Water Rhizosphe not tilled to Graduation in Funches):nch	Odor (C1) Table (C2 eres on Li i) Ced Iron (C c (C7) Remarks)	ving Roots 4) We	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) leave Hummocks (D7) (LRR F)
HYDROLO Wetland Hy Primary Indi Surface High W. Saturati Water M. Sedime Drift De Algal M. Iron De Inundat Water-S Field Obsel Surface Wa Water Table Saturation F (includes ca Describe Re	order of the control	I Imagery (I )  Yes Yes	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	at (B11) Invertebration Sulfide (Son Water Rhizosphe not tilled to Graduation in Funches):nch	Odor (C1) Table (C2 eres on Li i) Ced Iron (C c (C7) Remarks)	ving Roots 4) We	Surface Sparse Drainag Oxidize s (C3) (whe Crayfis Saturat ✓ Geomo FAC-Ne Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) leave Hummocks (D7) (LRR F)
HYDROLC  Wetland Hy Primary Indi Surface High W. Saturati Water N. Sedime Drift De Inundat Water-S Field Obser Surface Wa Water Table Saturation F (includes ca Describe Re	order of the control	one required limagery (III)  Yes Yes Yes Im gauge, m	Salt Crus Aquatic In Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc Other (Ex	at (B11) Invertebrat In Sulfide (Ison Water Rhizosph In not tilled It of Reduct It Surface It surfa	Odor (C1) Table (C2 eres on Li i) ced Iron (C (C7) Remarks)	ving Roots 4) We spections	Surface Sparse Sparse Drainag Coxidize Staturat ✓ Geomo FAC-No Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) leave Hummocks (D7) (LRR F)
IYDROLC  Wetland Hy Primary Indi Surface High W. Saturati Water N. Sedime Drift De Algal M. Iron De Inundat Water-S Field Obset Surface Wa Water Table Saturation F (includes ca Describe Re	order of the control	one required limagery (III)  Yes Yes Yes Im gauge, m	Salt Crus Aquatic li Hydroger Dry-Seas ✓ Oxidized (where Presence Thin Muc B7) Other (Ex	at (B11) Invertebrat In Sulfide (Ison Water Rhizosph In not tilled It of Reduct It Surface It surfa	Odor (C1) Table (C2 eres on Li i) ced Iron (C (C7) Remarks)	ving Roots 4) We spections	Surface Sparse Sparse Drainag Coxidize Staturat ✓ Geomo FAC-No Frost-H	e Soil Cracks (B6) by Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C3 re tilled) h Burrows (C8) ion Visible on Aerial Imagery (C9) rphic Position (D2) eutral Test (D5) leave Hummocks (D7) (LRR F)

Project/Site: 130 Environmental Park		City/County	Lockha	rt/Caldwell	Sampling Date: 06/25/20	13
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T15-DP6	
• ,					e Slope (%): 0	
Subregion (LRR): J - Southwestern Prairies			-			 83
Soil Map Unit Name: W - Water					ation: None available	
Are climatic / hydrologic conditions on the site typical for thi	s time of ve					
Are Vegetation, Soil, or Hydrology s					present? Yes ✓ No	
Are Vegetation, Soil, or Hydrology r				eded, explain any answe		
SUMMARY OF FINDINGS – Attach site map						etc.
Hydrophytic Vegetation Present? Yes <u>√</u> N	lo.					
	lo		e Sampled			
<del></del>	lo	with	in a Wetlar	id? Yes <u>v</u>	No	
Remarks:					-	
Forested wetland fringe along shoreline of upper rea	ach of lake					
VECETATION Has a significant and a significant	.4-				· · · · · · · · · · · · · · · · · · ·	
VEGETATION – Use scientific names of plan		Destinant	la Minata a	I Danie - Tark		
Tree Stratum (Plot size: 30'	Absolute % Cover	Species?	Indicator Status	Dominance Test work		
1. Fraxinus pennsylvanica	60	Yes	FAC	Number of Dominant S That Are OBL, FACW,	or FAC	
2. Salix nigra	40	Yes	FACW	(excluding FAC-):	<u>6</u> (A	<b>(</b> )
3				Total Number of Domin		
4				Species Across All Stra	ita: <u>6</u> (B)	)
15!	100	= Total Co	ver	Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15'	15	Yes	FAC	That Are OBL, FACW,	or FAC: 100 (A/	/B)
1. Fraxinus pennsylvanica 2. Triadica sebifera	10	Yes	FAC	Prevalence Index wor	ksheet:	
				Total % Cover of:	Multiply by:	
3				OBL species	x 1 =	
5				FACW species	x 2 =	
	25	= Total Co	ver	FAC species	x 3 =	
Herb Stratum (Plot size: 5'					x 4 =	
1. Cyperus reflexus	_ 20	Yes	FAC	UPL species		
2. Teucrium canadense	- 5	No	FACW	Column Totals:	(A)(E	B)
3. Cardiospermum halicacabum	- <del>20</del> 5	Yes No	FAC	Prevalence Index	= B/A =	
4. Eupatorium serotinum 5. Pluchea camphorata	- <del>5</del>	No	FACW	Hydrophytic Vegetation		$\neg$
			TACW	1 - Rapid Test for I	Hydrophytic Vegetation	
6				✓ 2 - Dominance Tes	it is >50%	
7				3 - Prevalence Inde	ex is ≤3.0 <sup>1</sup>	
9.				4 - Morphological A	Adaptations <sup>1</sup> (Provide support	ling
10.					s or on a separate sheet)  phytic Vegetation¹ (Explain)	
	55	= Total Co	ver			
Woody Vine Stratum (Plot size: 30' )				<sup>1</sup> Indicators of hydric so be present, unless disti	il and wetland hydrology must urbed or problematic.	ŧ
2				Hydrophytic		
45		= Total Co	ver	Vegetation	o 🗸 No	
% Bare Ground in Herb Stratum 45				Present? Ye	s No	
Remarks:	n och and	block will-	uu troop 1	dydronhytio yezeteti	oritorion is not mad	
Small stand of forested wetland, dominated by gree	ii asii aii0	DIACK WILL	W HEES. I	ryuropriyiic vegetation	ontenon is not met.	

Profile Desc	cription: (Describ	e to the de	oth needed to docu	ment the	indicato	or confirm	m the absence of	indicators.)
Depth	Matrix			ox Feature				
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
1-4	10 YR 2/1	90	5 YR 5/8	_ 10	_ <u>C</u>	PL/M	Clay	
5-8	10 YR 2/1	75	5 YR 5/8	_ 25	_ <u>C</u>	PL/M		
9-10	10 YR 2/1	75	5 YR 5/8	20	С	M		
			10 YR 5/2	5	D	М		
					-	-		
			_					
<sup>1</sup> Type: C=C	oncentration, D=De	epletion, RM	I=Reduced Matrix, C	S=Covere	ed or Coat	ed Sand G	Frains. <sup>2</sup> Locati	on: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to al	LRRs, unless other	erwise no	ted.)		Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)			Gleyed M	. ,		1 cm Muc	k (A9) ( <b>LRR I, J</b> )
	oipedon (A2)			Redox (S				airie Redox (A16) (LRR F, G, H)
_	stic (A3)			ed Matrix (				ace (S7) (LRR G)
	en Sulfide (A4) d Layers (A5) ( <b>LRR</b>	) E/		Mucky Mi Gleyed M				ns Depressions (F16) H outside of MLRA 72 & 73)
1 —	ick (A9) (LRR F, G			ed Matrix				Vertic (F18)
I —	d Below Dark Surfa		✓ Redox					nt Material (TF2)
	ark Surface (A12)	. ,	Deplet	ed Dark S	urface (F	7)		llow Dark Surface (TF12)
	lucky Mineral (S1)			Depression				plain in Remarks)
_	Mucky Peat or Peat			lains Depi	,	,		hydrophytic vegetation and
5 cm Mu	icky Peat or Peat (	S3) ( <b>LRR F</b> )	) (M	LRA 72 &	73 of LR	R H)		ydrology must be present,
Postrictivo	Layer (if present):						unless dis	sturbed or problematic.
Type: Ha								
Depth (in							Hudria Sail Dr	esent? Yes ✓ No
	cries).						Hydric 30ii Fit	esent: resNo
Remarks:	criterion is met.							
Hydric son c	interior is met.							
					_			
HYDROLO	GY							
Wetland Hy	drology Indicators	5:						
-			ed; check all that app	oly)			Secondary	Indicators (minimum of two required)
	Water (A1)		Salt Crus					e Soil Cracks (B6)
ı —	iter Table (A2)			nvertebrat	es (B13)			ly Vegetated Concave Surface (B8)
Saturation	` ,			Sulfide C				ge Patterns (B10)
_	larks (B1)		Dry-Seas	on Water	Table (C2	)	Oxidize	ed Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		✓ Oxidized	Rhizosph	eres on Li	ving Roots		re tilled)
Drift Dep	oosits (B3)		(where	not tilled	)		Crayfis	h Burrows (C8)
Algal Ma	at or Crust (B4)		Presence	of Reduc	ed Iron (C	4)	Saturat	ion Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muc	k Surface	(C7)		✓ Geomo	rphic Position (D2)
Inundation	on Visible on Aeria	I Imagery (E	37) Other (E)	oplain in R	emarks)		FAC-Ne	eutral Test (D5)
Water-S	tained Leaves (B9)	)					Frost-H	leave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Water			No ✓ Depth (i					
Water Table			No ✓ Depth (i					
Saturation P		Yes	No ✓ Depth (ii	nches):	-	Wet	land Hydrology P	resent? Yes <u>√</u> No
(includes car	oillary fringe)	m dalide m	onitoring well, aeria	photos n	revious in	spections\	if available	
Describe Re	Lorded Data (Streat	m gauge, m	ontoring well, aella	ριισιος, ρ	4 CAIONS III	apecuons)	, ii available.	
Donosilis				_				
Remarks:	accordated with	laka bad -	nd floodalain Cit.	ie or E	oodolois	Zono ^	Motland budget	ay oritorian is mat
Depression	associated with	iake beu a	na nooupiain. Site	ווט פו דו	ooupiain	ZUIIE A.	vveuariu riyarolo	gy criterion is met.
							100000	

Project/Site: 130 Environmental Park		City/Co	<sub>unty:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T15-DP7
Investigator(s): Troegle, Josh & Boe, Brian			, Township, Ra		
Landform (hillslope, terrace, etc.): Depression					slope (%): 2
	Lat: 29.		•		Datum: NAD 83
Soil Map Unit Name: W - Water					fication: None available
Are climatic / hydrologic conditions on the site typical for t	his time of us	n=2 Va	_		
Are Vegetation, Soil, or Hydrology					'present? Yes ✓ No
Are Vegetation, Soil, or Hydrology SUMMARY OF FINDINGS — Attach site ma				eeded, explain any answ ocations, transect	
		Ť			•
Hydrophytic Vegetation Present? Yes ✓ Hydric Soil Present? Yes ✓			is the Sampled		
Wetland Hydrology Present? Yes ✓		,	within a Wetlar	nd? Yes <u>✓</u>	No
Remarks:				##- P-1	
Emergent wetland along fringe of upper reaches of	of lake.				
VEGETATION – Use scientific names of pla	ants.				
30'	Absolute		nant Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'			es? Status	Number of Dominant	
1.				That Are OBL, FACW (excluding FAC-):	3 (A)
2					
3				Total Number of Domi Species Across All Str	^
4		= Total	Cover		, ,
Sapling/Shrub Stratum (Plot size: 15'			00101	Percent of Dominant S That Are OBL, FACW	
1. Sesbania drummondii	10	Yes	FACW	Duesale needed	
2				Prevalence Index wo	Multiply by:
3					x 1 =
4					x2=
5	10				x3=
Herb Stratum (Plot size: 5'		= Total	l Cover		x 4 =
1. Eleocharis engelmannii	40	Yes	FACW	ł .	x 5 =
2. Persicaria pensylvanicum	15	No	FACW	Column Totals:	(A) (B)
3. Cyperus setigerns	5	No	FAC	Daniel and the	D/A
4. Cyperus Reflexus	5	No	FAC FAC	Hydrophytic Vegetat	ex = B/A =
5. Eleocharis quadrangulata		Yes	OBL		Hydrophytic Vegetation
6. Xanthium strumarium	10	No	FAC	✓ 2 - Dominance Te	
7. Marsilea vestita		No	OBL	3 - Prevalence Inc	
8				I —	Adaptations <sup>1</sup> (Provide supporting
9				data in Remar	ks or on a separate sheet)
10.				Problematic Hydr	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'	123	= I ota	l Cover	<sup>1</sup> Indicators of hydric se	oil and wetland hydrology must
1					sturbed or problematic.
2.				Hydrophytic	
		= Tota	l Cover	Vegetation	vaa √ Na
% Bare Ground in Herb Stratum 0				Present? Y	es No
Remarks:	four Cashan	do U.	rdrooby 4to 110 -	uototion oritorion is	
Emergent wetland dominated by spikerush, with a	iew Sespan	на. Пу	rarophytic veg	jetation ontenon is me	ι.

Profile Desc	cription: (Describe	to the de	pth needed to docur	nent the	indicator	or confir	m the absence of in	dicators.)
Depth	Matrix	0/		x Featur	es Turnel	12	. T	Damardia
(inches)	Color (moist) 10 YR 3/1	<u>%</u> 80	Color (moist) 5 YR 5/8	20	Type <sup>1</sup>	Loc <sup>2</sup> M/PL	Clay	Remarks
0-3							Olay	145
4-8	10 YR 3/1	55	5 YR 5/8	20	_ <u>C</u>	M		
			10 YR 5/1	25	_ <u>D</u>	<u> M</u>		
8-16	Gley 2 3/5 PB	80	2.5 YR 3/6	20	<u>C</u>	М		
	-							
		_						
_			-					
						-		
			M=Reduced Matrix, CS			ed Sand (		: PL=Pore Lining, M=Matrix. Problematic Hydric Soils <sup>3</sup> :
		cable to a	II LRRs, unless othe					•
Histosof	(A1) pipedon (A2)			sieyea iv Redox (S	Matrix (S4)		1 cm Muck	e Redox (A16) (LRR F, G, H)
1	istic (A3)			d Matrix	,			e (S7) (LRR G)
1	en Sulfide (A4)				lineral (F1)			Depressions (F16)
	d Layers (A5) (LRR	F)	Loamy	Gleyed N	Matrix (F2)		•	outside of MLRA 72 & 73)
_	ick (A9) (LRR F, G,			d Matrix	` '		Reduced Ve	, ,
	d Below Dark Surfa	ce (A11)	✓ Redox I		face (F6) Surface (F7	`		Material (TF2) w Dark Surface (TF12)
_	ark Surface (A12)  Mucky Mineral (S1)				ons (F8)	)		ain in Remarks)
	Mucky Peat or Peat	(S2) (LRR		-	ressions (I	16)		drophytic vegetation and
	cky Peat or Peat (				73 of LR			rology must be present,
							unless distu	rbed or problematic.
Restrictive	Layer (if present):							
Type:							1	_
Depth (in	ches):						Hydric Soil Pres	ent? Yes ✓ No
Remarks:								
Hydric soil o	criterion is met.							
HYDROLO	CV.							
	drology Indicators		end, about all that any	h.d			Cocondon In	dicators (minimum of two required)
		one requir	ed; check all that appl		-			dicators (minimum of two required)
ı <del></del>	Water (A1)		Salt Crust	` '	too (B13)			Soil Cracks (B6) Vegetated Concave Surface (B8)
l	ater Table (A2)		Aquatic In Hydrogen		, ,			Patterns (B10)
Saturation					· Table (C2	)		Rhizospheres on Living Roots (C3)
_	larks (B1) nt Deposits (B2)		✓ Oxidized F					
_	posits (B3)			not tille		villig 1 (OO)		Burrows (C8)
1 —	at or Crust (B4)		•		ced Iron (C	4)		n Visible on Aerial Imagery (C9)
	oosits (B5)		Thin Muck		,	.,	<del></del>	phic Position (D2)
. —	on Visible on Aeria	I Imagery (						itral Test (D5)
ı —	stained Leaves (B9)		,		,			ave Hummocks (D7) (LRR F)
Field Obser								
Surface Wat		Yes	No ✓ Depth (in	ches):		_		
Water Table			No ✓ Depth (in					
Saturation P			No ✓ Depth (in				tland Hydrology Pre	esent? Yes √ No
(includes car	pillary fringe)							
Describe Re	corded Data (stream	m gauge, r	monitoring well, aerial	photos,	previous in	spections	), it available:	
Remarks:						–	A 144-44- 11	and a second and a second
Wetland frir	nge of lake at nor	tn end, al	ong channel. Data	point is	on Flood	piain, Zo	ne A. Wetland hyd	rology criterion is met.

Project/Site: 130 Environmental Park		City/County	. Lockha	rt/Caldwell	Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC					Sampling Point: T15-DP8
••					
Landform (hillslope, terrace, etc.):			-	-	Slope (%); 0
Subregion (LRR): J - Southwestern Prairies					
Soil Map Unit Name: W - Water					cation: None available
Are climatic / hydrologic conditions on the site typical for th	is time of ve	ar? Yes <b>√</b>	_		
Are Vegetation, Soil, or Hydrology					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology				eeded, explain any answe	
SUMMARY OF FINDINGS - Attach site map			•		•
,		Jumpin	ig point i		, important routures, etc.
	No	ls ti	he Sampled		
	No	with	nin a Wetlar	nd? Yes <u>√</u>	No
Remarks:					
Forested wetland fringe along shoreline of upper re	ach of lake	١.			
To solve we want mings along enterents or appoint					
VEGETATION – Use scientific names of plan	nts.				
Tree Stratum (Plot size: 30'		Dominan Species 2		Dominance Test work	sheet:
1. Fraxinus pennsylvanica	60	Species? Yes	FAC	Number of Dominant S That Are OBL, FACW,	
				(excluding FAC-):	4 (A)
3.	_			Total Number of Domir	aont
4.				Species Across All Stra	A
4.	60	= Total Co	ver	Dercent of Deminent C	
Sapling/Shrub Stratum (Plot size: 15'				Percent of Dominant S That Are OBL, FACW,	
1. Fraxinus pennsylvanica	40	Yes	FAC	Prevalence Index wor	elea ha a a a a
2					Multiply by:
3		-			x 1 =
4			- —	1	x 2 =
5					x3=
Herb Stratum (Plot size: 51 )	40	= Total Co	over		x 4 =
1 Cyperus reflexus	20	Yes	FAC	UPL species	
2. Teucrium canadense	5	No	FACW		(A)(B)
3. Cardiospermum halicacabum	20	Yes	FAC		
4. Euptarium serotinum	5	No	FAC		c = B/A =
5. Pluchea camphorata	5	No	FACW	Hydrophytic Vegetati	
6				_ ·	Hydrophytic Vegetation
7				✓ 2 - Dominance Tes	
8	_			3 - Prevalence Ind	
9					Adaptations <sup>1</sup> (Provide supporting as or on a separate sheet)
10				Problematic Hydro	phytic Vegetation <sup>1</sup> (Explain)
30'	55	= Total Co	over		il and wetland hydrology must
Woody Vine Stratum (Plot size: 30'				be present, unless dist	
1				Hardran bad's	
2		- Total Co		Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 45		= Total Co	7461	Present? Ye	es No
Remarks:					
Small forested wetland stand dominated by green a	ash trees a	nd sapling	s. Hydrop	hytic vegetation criterio	on is met.

Profile Desc	ription: (Describ	e to the de	oth needed to docu	ment the	indicato	or confir	m the absence of ir	ndicators.)
Depth	Matrix	%	Color (moist)	x Feature %	esType <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
(inches) 1-4	Color (moist) 10 YR 2/1		5 YR 5/8	<del></del> 10	C Type	PL/M	Clay	Legilary
5-8	10 YR 2/1	- <del>30</del>	5 YR 5/8	25	- <del>c</del>	PL/M		
			5 YR 5/8	- <del>23</del> 20	- <del>c</del>	M		
9-10	10 YR 2/1	<u>75</u>						
			10 YR 5/2	5	_ <u>D</u>	_ M		
					_			
<sup>1</sup> Type: C=Ce	oncentration, D=De	epletion, RM	l=Reduced Matrix, C	S=Covere	ed or Coa	ted Sand C	Grains. <sup>2</sup> Location	n: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Appl	icable to al	LRRs, unless othe	rwise no	ted.)	-		Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)				latrix (S4)			(A9) (LRR I, J)
	oipedon (A2)			Redox (S				rie Redox (A16) (LRR F, G, H)
_	stic (A3) en Sulfide (A4)			d Matrix ( Mucky M	(56) lineral (F1	)		ce (S7) ( <b>LRR G</b> ) s Depressions (F16)
	d Layers (A5) (LRF	<b>(F</b> )	,	,	//atrix (F2)	•		outside of MLRA 72 & 73)
1 cm Mu	ıck (A9) ( <b>LRR F, G</b>	, H)		ed Matrix	. ,		Reduced V	` '
	Below Dark Surfa	ace (A11)			face (F6)	7)		t Material (TF2)
_	ark Surface (A12) Nucky Mineral (S1)			ed Dark S Depressi	Surface (F	/)		ow Dark Surface (TF12) lain in Remarks)
	nucky Milneral (3 i) Mucky Peat or Pea			•	ressions (	F16)		ydrophytic vegetation and
_	icky Peat or Peat (				73 of LR			drology must be present,
							unless dist	urbed or problematic.
1	Layer (if present):							
Type: 10		-						
	ches): Hardpan						Hydric Soil Pre	sent? Yes V No No
Remarks:	ritorion io mot							
Hydric soil d	criterion is met.							
<b>HYDROLO</b>	GY							
Wetland Hy	drology Indicator	s:						
Primary India	cators (minimum o	one require	ed; check all that app	ly)			Secondary Ir	ndicators (minimum of two required)
Surface	Water (A1)		Salt Crus	t (B11)				Soil Cracks (B6)
	iter Table (A2)		Aquatic Ir		` ,			/ Vegetated Concave Surface (B8)
Saturation	,		Hydrogen					e Patterns (B10)
	larks (B1)		✓ Dry-Seas ✓ Oxidized		Table (C			Rhizospheres on Living Roots (C3)
	nt Deposits (B2) posits (B3)		_	not tilled		iving Root	• •	e tilled) Burrows (C8)
	at or Crust (B4)		Presence		•	24)		on Visible on Aerial Imagery (C9)
	posits (B5)		Thin Muc		,	J-1,		phic Position (D2)
I —	on Visible on Aeria	ıl Imagery (l						utral Test (D5)
Water-S	tained Leaves (B9	)					Frost-He	eave Hummocks (D7) (LRR F)
Field Obser	vations:							
Surface Wat	er Present?		No ✓ Depth (in					
Water Table	Present?		No ✓ Depth (in					
Saturation P		Yes	No <u>✓</u> Depth (in	nches): _		We	tland Hydrology Pr	esent? Yes ✓ No
(includes car	oillary fringe) corded Data (strea	m gauge, n	nonitoring well, aerial	photos.	previous in	nspections	), if available:	
20001100110		. J J	, 22,141					
Remarks:								
	s on Floodplain 2	Zone A. W	etland hydrology	riterion	is met.			

Project/Site: 130 Environmental Park		City/Coun	ty: Lockhar	rt/Caldwell	Sampling Date: 06/25/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX	Sampling Point: T15-DP9
Investigator(s): Troegle, Josh & Boe, Brian		Section, 7	Γownship, Raι	nge: NA	
Landform (hillslope, terrace, etc.): Lake shore		Local reli	ef (concave, o	convex, none): Concar	ve Slope (%): 1
Subregion (LRR): J - Southwestern Prairies	_ Lat: 29.	96		Long: <u>-97.65</u>	Datum: NAD 83
Soil Map Unit Name: W - Water					cation: None available
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Yes			
Are Vegetation, Soil, or Hydrologys					present? Yes ✓ No
Are Vegetation, Soil, or Hydrology r				eded, explain any answ	
SUMMARY OF FINDINGS – Attach site map					•
Hydrophytic Vegetation Present? Yes ✓ N	lo	1.	41		
	lo		the Sampled thin a Wetlar		No
Wetland Hydrology Present? Yes ✓ N	lo		tilli a Wetlar	10.	
Remarks:					
Emergent wetland on east side of channel, at upper	reach of la	ake.			
VEGETATION – Use scientific names of plan	ıts.				
	Absolute	Domina	nt Indicator	Dominance Test wor	ksheet:
Tree Stratum (Plot size: 30'	% Cover	Species	? Status	Number of Dominant S	
1				That Are OBL, FACW, (excluding FAC-):	or FAC 2 (A)
2					
3				Total Number of Domi Species Across All Str	0
4		= Total C	Cover		
Sapling/Shrub Stratum (Plot size: 15' )		- Total C	70101	Percent of Dominant S That Are OBL, FACW,	
1				Prevalence Index wo	rkshoot
2					Multiply by:
3					x 1 =
4				. —	x 2 =
5	_	= Total C	`over	1	x 3 =
Herb Stratum (Plot size: 5'		- Total C	ovei	FACU species	x 4 =
1. Eleocharis engelmannii	40	Yes	FACW	UPL species	x 5 =
2. Persicaria pensylvanicum	70	Yes	FACW	Column Totals:	(A) (B)
3. Cyperus reflexus	10	No	FAC	Prevalence Inde	x = B/A =
4				Hydrophytic Vegetat	
5					Hydrophytic Vegetation
6				✓ 2 - Dominance Te	est is >50%
7				3 - Prevalence Inc	tex is ≤3.0 <sup>1</sup>
8				4 - Morphological	Adaptations <sup>1</sup> (Provide supporting
9				1	ks or on a separate sheet)
	120	= Total C	Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size: 30'					oil and wetland hydrology must turbed or problematic.
1					turbed of problematic.
2				Hydrophytic Vegetation	
% Bare Ground in Herb Stratum 0		= Total C	over	Present? Y	es No
Remarks:					
Emergent wetland fringe along upper reach of lake.	Hydrophy	tic vege	tation criterio	on is met.	

Great Plains – Version 2.0

Profile Desc	cription: (Describe	to the de	pth needed to docum	nent the	indicator	or confir	rm the absence of in	dicators.)
Depth	Matrix			x Featur				
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>		Remarks
0-3	10 YR 3/1	80	5 YR 5/8	20	_ <u>C</u>	M/PL	Clay	
4-8	10 YR 3/1	55	5 YR 5/8	20	- <u>c</u>	M		
			10 YR 5/1	25	_ <u>D</u>	<u>M</u>		
8-16	Gley 2 3/5PB	80	2.5 YR 3/6	20	_ <u>C</u>	<u>M</u>		
			I=Reduced Matrix, CS			d Sand (		n: PL=Pore Lining, M=Matrix.
1 -		able to al	I LRRs, unless other					Problematic Hydric Soils <sup>3</sup> :
Histosol	' '			-	latrix (S4)			(A9) (LRR I, J)
	oipedon (A2)		Sandy F Stripped	•	,			ie Redox (A16) ( <b>LRR F, G, H</b> )
ı —	stic (A3) en Sulfide (A4)				ineral (F1)			ce (S7) ( <b>LRR G</b> ) Depressions (F16)
	t Layers (A5) ( <b>LRR</b> l	F)			fatrix (F2)			outside of MLRA 72 & 73)
_	ick (A9) (LRR F, G,	-	Deplete				Reduced Ve	
	d Below Dark Surfac		✓ Redox D		. ,			Material (TF2)
	ark Surface (A12)	` ,	Depleted	d Dark S	urface (F7)	)	_	w Dark Surface (TF12)
	lucky Mineral (S1)		Redox D					ain in Remarks)
2.5 cm N	Mucky Peat or Peat (	(S2) ( <b>LRR</b>	G, H) High Pla	ins Dep	ressions (F	16)	<sup>3</sup> Indicators of hy	drophytic vegetation and
5 cm Mu	icky Peat or Peat (S	3) ( <b>LRR F</b>	) (MLI	RA 72 &	73 of LRR	(H)	wetland hyd	Irology must be present,
							unless distu	urbed or problematic.
	Layer (if present):							
" —			<del></del>					
Depth (inc	ches):		<del></del>				Hydric Soil Pres	sent? Yes ✓ No
Remarks:	ulta da un anat							
Hydric soil o	criterion met.							
HYDROLO	GY							
Wetland Hyd	drology Indicators:						-	
Primary India	cators (minimum of c	ne require	ed; check all that apply	y)			Secondary In-	dicators (minimum of two required)
_	Water (A1)		Salt Crust	• ,				Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Inv	ertebrat	es (B13 <b>)</b>		Sparsely	Vegetated Concave Surface (B8)
Saturatio	on (A3)		Hydrogen :	Sulfide C	dor (C1)		Drainage	Patterns (B10)
Water M	arks (B1)		Dry-Seaso					Rhizospheres on Living Roots (C3)
Sedimer	nt Deposits (B2)		✓ Oxidized R	Rhizosph	eres on Liv	ing Roots	s (C3) (where	tilled)
Drift Dep	oosits (B3)		· (where r	ot tilled	)		Crayfish	Burrows (C8)
Algal Ma	it or Crust (B4)		Presence of	of Reduc	ed Iron (C4	1)	Saturatio	n Visible on Aerial Imagery (C9)
Iron Dep	osits (B5)		Thin Muck	Surface	(C7)		✓ Geomorp	phic Position (D2)
Inundation	on Visible on Aerial	lmagery (E	37) Other (Exp	lain in R	emarks)		✓ FAC-Neu	itral Test (D5)
Water-St	tained Leaves (B9)						Frost-Hea	ave Hummocks (D7) (LRR F)
Field Observ	vations:							
Surface Water			No ✓ Depth (inc			1		
Water Table				ches):		_		
Saturation Pr		'es	No Depth (inc	ches):		_ We	tland Hydrology Pre	sent? Yes / No
(includes cap Describe Red		gauge, m	onitoring well, aerial p	ohotos, p	revious ins	pections	), if available:	
	•							
Remarks:								
Wetland frin	ge of upper reach	of lake.	Site is on Floodplai	in Zone	A. Wetla	nd hydro	ology criterion is me	et.

Project/Site: 130 Environmental Park		City/Cou	<sub>inty:</sub> Lockha	rt/Caldwell	_ Sampling Date: 06/2	6/2013
Applicant/Owner: 130 Environmental Park, LLC				State: TX		
					_ Sampling Point: _110	DI 10
Investigator(s): Troegle, Josh & Boe, Brian						
Landform (hillslope, terrace, etc.): Upland						
Subregion (LRR): <u>J - Southwestern Prairies</u>						
Soil Map Unit Name: CrC2 - Crockett soils, 2-5%	slopes, eroc	ded		NWI classifi	cation: None availab	le
Are climatic / hydrologic conditions on the site typical for	this time of yea	ar? Yes	✓ No	(If no, explain in I	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly	disturbe	d? Are	"Normal Circumstances"	present? Yes ✓	No
Are Vegetation, Soil, or Hydrology				eeded, explain any answ		
SUMMARY OF FINDINGS – Attach site ma					-	es, etc.
	/					
Hydrophytic Vegetation Present? Yes		Is	s the Sampled			
Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No V	w	vithin a Wetlar	nd? Yes	No <u>√</u>	
Remarks:	140					
Upland herbaceous area to east of upper reaches	of lake and	fringe w	vetlands.			
Opiana norbadocad area to caet or apport toasmos	or land are	90	701101101			
VEGETATION - Use scientific names of pla	ants.					
	Absolute	Domina	ant Indicator	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30'	% Cover	Specie	es? Status	Number of Dominant S	Species	
1				That Are OBL, FACW,	or FAC	(4)
2				(excluding FAC-):	2	_ (A)
3				Total Number of Domi		
4				Species Across All Str	ata: <u>4</u>	_ (B)
15!		= Total	Cover	Percent of Dominant S	pecies	
Sapling/Shrub Stratum (Plot size: 15')	2	Vac	FACW	That Are OBL, FACW,	or FAC: 50	_ (A/B)
1. Sesbania drummondii	5		FACU	Prevalence Index wo	rksheet:	
2. Prosopis glandulosa				Total % Cover of:	Multiply by:	
3					x 1 =	
4					x 2 =	
5					x 3 =	
Herb Stratum (Plot size: 5')	7	= Total	Cover	ł .	x 4 =	
1. Buchloe dactyloides	<b>7</b> 5	Yes	UPL	UPL species		
2. Phalaris caroliniana	25	Yes	FACW	1	(A)	— (B)
3 Tridens albescens	5	No	FAC			(-)
4				Prevalence Inde	x = B/A =	
5				Hydrophytic Vegetat	ion Indicators:	
6				1 - Rapid Test for	Hydrophytic Vegetation	
				2 - Dominance Te	st is >50%	
7				3 - Prevalence Inc	lex is ≤3.0 <sup>1</sup>	
8					Adaptations <sup>1</sup> (Provide su	
10.					ks or on a separate shee	,
10.		= Total	Cover	Problematic Hydro	ophytic Vegetation <sup>1</sup> (Expl	ain)
Woody Vine Stratum (Plot size: 30'		- Total	COVCI		oil and wetland hydrology	/ must
1				be present, unless dis	turbed or problematic.	
2				Hydrophytic		
		= Total	Cover	Vegetation		
% Bare Ground in Herb Stratum 0			10.67	Present? Y	es No <u> </u>	
Remarks:						
Herbaceous upland area dominated by buffalo gra	ass. Hydrop	nytic ve	egetation crite	erion is not met.		

Profile Desc	cription: (Describ	e to the depth ne	eded to docum	ent the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			Features				
(inches)	Color (moist)		olor (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10 YR 3/2						Clay	Hard
	r-9							
						_		
¹Type: C=C	oncentration, D=D	epletion, RM=Red	uced Matrix. CS	=Covered	or Coate	d Sand Gr	rains. <sup>2</sup> Lo	cation: PL=Pore Lining, M=Matrix.
		licable to all LRRs						for Problematic Hydric Soils <sup>3</sup> :
Histosol				leyed Ma			1 cm l	Muck (A9) (LRR I, J)
_	pipedon (A2)			edox (S5				Prairie Redox (A16) (LRR F, G, H)
Black H	istic (A3)		Stripped	Matrix (S	66)			Surface (S7) (LRR G)
Hydroge	en Sulfide (A4)			/lucky Min	` '			Plains Depressions (F16)
_	d Layers (A5) (LR	•		Eleyed Ma			•	RR H outside of MLRA 72 & 73)
	uck (A9) (LRR F, C			Matrix (F	,		_	ced Vertic (F18)
	d Below Dark Surf ark Surface (A12)	ace (A11)	_	ark Surfa	ce (F6) rface (F7 <b>)</b>			arent Material (TF2) Shallow Dark Surface (TF12)
_	Mucky Mineral (S1)	1		epressio	` ,			(Explain in Remarks)
		t (S2) ( <b>LRR G, H</b> )		-	ssions (F	16)		of hydrophytic vegetation and
_	ucky Peat or Peat				3 of LRR	•		d hydrology must be present,
_							unless	s disturbed or problematic.
1	Layer (if present)	•						
Type: Cla								,
Depth (in	ches): 10						Hydric Soil	Present? Yes No ✓
Remarks:								
No hydric s	oil indicators obs	served.						
HYDROLO	GY							
	drology Indicator	's:						
_	• • •	f one required; che	eck all that apply	<b>(</b> )			Seconda	ary Indicators (minimum of two required)
	Water (A1)		Salt Crust					face Soil Cracks (B6)
_	ater Table (A2)		Aquatic Inv		s (B13)			arsely Vegetated Concave Surface (B8)
Saturation			Hydrogen S					inage Patterns (B10)
1 —	farks (B1)		Dry-Seaso		, ,			dized Rhizospheres on Living Roots (C3)
	nt Deposits (B2)		Oxidized R				(C3) (v	where tilled)
ı <b>—</b>	posits (B3)			ot tilled)				yfish Burrows (C8)
	at or Crust (B4)		Presence of	of Reduce	d Iron (C4	1)	Sat	uration Visible on Aerial Imagery (C9)
ı —	posits (B5)		Thin Muck	Surface (	C7)		Geo	omorphic Position (D2)
	on Visible on Aeri	al Imagery (B7)	Other (Exp	lain in Re	marks)		FAC	C-Neutral Test (D5)
Water-S	Stained Leaves (B9	))					Fro	st-Heave Hummocks (D7) (LRR F)
Field Obser	vations:			-				
Surface Wat	er Present?	Yes No <u>v</u>	Depth (inc	hes):		_		
Water Table	Present?	Yes No _						
Saturation P		Yes No _•	,				and Hydrolog	y Present? Yes No ✓
(includes car	pillary fringe)							
Describe Re	corded Data (stream	am gauge, monitor	ing well, aerial p	hotos, pr	evious ins	pections),	if available:	
Remarks:								
Data point i	s on Floodplain	Zone A; howeve	r no other hyd	rology in	dicators	were obs	erved. Wetla	and hydrology criterion is not met.

Project/Site: 130 Environmental Park		City/Co	unty:	Lockha	rt/Caldwell	Sampling Date: 07/11/2013
Applicant/Owner: 130 Environmental Park, LLC						Sampling Point: T15-DP11
Investigator(s): Troegle, Josh & Littleton, Brandyn						
Landform (hillslope, terrace, etc.): Fringe wetland				-		Slope (%): 0-4
Subregion (LRR): J - Southwestern Prairies						
Soil Map Unit Name: CrC2 - Crockett soils, 2-5% slo						
Are climatic / hydrologic conditions on the site typical for this						
Are Vegetation, Soil, or Hydrologys						resent? Yes ✓ No
Are Vegetation, Soil, or Hydrology n					eeded, explain any answer	
SUMMARY OF FINDINGS – Attach site map						·
Hydrophytic Vegetation Present? Yes ✓ No.	0	17	1- 41-	0 1		
	·			Sampled n a Wetlar		No
Wetland Hydrology Present? Yes ✓ No.			WILLIII	i a wellai	id? Tes <u>v</u>	NO
Remarks:	-					
VEGETATION – Use scientific names of plant	te					
VEGETATION GOOD SOLUTION NAMES OF PLAN	Absolute	Domir	nant	Indicator	Dominance Test works	heet:
Tree Stratum (Plot size: 30')	% Cover				Number of Dominant Sp	
1. Ulmus crassifolia	25	Yes		FAC	That Are OBL, FACW, o	r FAC
2					(excluding FAC-):	4 (A)
3					Total Number of Domina	A
4	25	_			Species Across All Strata	a: <u>4</u> (B)
Sapling/Şhrub Stratum (Plot size: 15' )	25	= Total	I Cove	er	Percent of Dominant Spe	
1. Sesbania drummondii	80	Yes		FACW	That Are OBL, FACW, o	r FAC: 100 (A/B)
2					Prevalence Index work	
3.						Multiply by:
4						x 1 =
5					1	x 2 =
Hart States (Flat stars 5'	80	= Total	I Cove	er		x3=
Herb Stratum (Plot size: 5'  1. Cyperus polystachyos	30	Yes		FACW	LIDIi	x 4 = x 5 =
2. Pluchea camphorata	30	Yes		FACW		(A) (B)
3						
4						= B/A =
5					Hydrophytic Vegetation	
6					1 - Rapid Test for Hy	
7					✓ 2 - Dominance Test	
8					3 - Prevalence Index	daptations <sup>1</sup> (Provide supporting
9.						or on a separate sheet)
10					Problematic Hydropl	hytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size: 30'	60	= Total	I Cove	er	<sup>1</sup> Indicators of bydric soil	and wetland hydrology must
1					be present, unless distur	bed or problematic.
2.			_		Hydrophytic	
		= Total	l Cove	er	Vegetation	
% Bare Ground in Herb Stratum 0					Present? Yes	<u>√</u> No
Remarks:						
Tress on perimeter of fringe wetland.						

Sampling Point: T15-DP11

Depth	Matrix		Red	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>		Remarks
0-16	10 YR 4/1	50	10 YR 5/8	20	С	M/PL	Clay	
			5 YR 4/6	30	С	M/PL		
								-
			Ded and Matrix O			1010	21 41	DI Dans Linia Manada
	Concentration, D=De Indicators: (Appli					d Sand G		on: PL=Pore Lining, M=Matrix.  Problematic Hydric Soils <sup>3</sup> :
-		cable to an		Gleyed M				k (A9) (LRR I, J)
Histoso	pipedon (A2)			Redox (S				irie Redox (A16) (LRR F, G, H)
	listic (A3)			ed Matrix (				ace (S7) (LRR G)
	en Sulfide (A4)				ineral (F1)			s Depressions (F16)
	d Layers (A5) (LRR	F)			latrix (F2)			l outside of MLRA 72 & 73)
1 cm M	uck (A9) (LRR F, G,	, H)	✓ Deplete	ed Matrix	(F3)		Reduced	Vertic (F18)
Deplete	ed Below Dark Surfa	ce (A11)	_	Dark Surf	, ,			nt Material (TF2)
	ark Surface (A12)				urface (F7	)		ow Dark Surface (TF12)
	Mucky Mineral (S1)	(00) (I DD		Depression		40)		olain in Remarks)
	Mucky Peat or Peat				73 of LRF			nydrophytic vegetation and rdrology must be present,
5 CM IVI	ucky Peat or Peat (S	55) ( <b>LKK F</b> )	(141)	LNA 12 Q	73 OI LIKE	. n <i>)</i>	•	turbed or problematic.
Restrictive	Layer (if present):						1	
							1	
Type:								
• • •	nches):						Hydric Soil Pre	esent? Yes ✓ No
Depth (in	nches):						Hydric Soil Pre	esent? Yes ✓ No
• • •							Hydric Soil Pre	esent? Yes ✓ No
Depth (in							Hydric Soil Pre	esent? Yes <u>√</u> No
Depth (in							Hydric Soil Pre	esent? Yes <u>√</u> No
Depth (in	nches):						Hydric Soil Pre	esent? Yes ✓ No
Depth (ir	nches):						Hydric Soil Pre	esent? Yes ✓ No
Depth (in Remarks:	OGY  drology Indicators	s:		oly)				
Depth (in Remarks:  YDROLO  Wetland Hy	OGY vdrology Indicators	s:	d; check all that app				Secondary	ndicators (minimum of two required
Depth (in Remarks:  YDROLO  Vetland Hy  Primary Indi  Surface	OGY vdrology Indicators icators (minimum of	s:	d; check all that app	t (B11)	es (B13)		Secondary I	ndicators (minimum of two required
Depth (ir Remarks: YDROLO Vetland Hy Primary Indi Surface High W	OGY vdrology Indicators icators (minimum of Water (A1) ater Table (A2)	s:	d; check all that app Salt Crus Aquatic II	t (B11) nvertebrat			Secondary I  ✓ Surface  — Sparsel	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8)
Depth (in Remarks:  YDROLC  Vetland Hy Primary Indi Surface High W Saturati	OGY  rdrology Indicators icators (minimum of Water (A1) ater Table (A2) ion (A3)	s:	d; check all that app Salt Crus Aquatic II Hydroger	it (B11) nvertebrat n Sulfide C	odor (C1)		Secondary I  Surface Sparsel Drainag	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10)
Depth (in Remarks:  YDROLC  Vetland Hy  Primary Indi  Surface  High W  Saturati  Water M	ordes):	s:	d; check all that app Salt Crus Aquatic II Hydroger Dry-Seas	it (B11) nvertebrat n Sulfide C son Water	odor (C1) Table (C2)		Secondary I  ✓ Surface  — Sparsel  — Drainag  — Oxidize	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (C
Depth (in Remarks:  YDROLC  Yetland Hy Primary Indi Surface High W Saturati Water M Sedime	ordes):	s:	d; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized	it (B11) nvertebrat n Sulfide C son Water Rhizosph	Odor (C1) Table (C2) eres on Liv		Secondary    V Surface  Sparse   Drainag  Oxidize  (C3) (when	Indicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (Core tilled)
Depth (in Remarks:  YDROLO  Vetland Hy  Primary Indi  Surface  High W  Saturati  Water M  Sedime  Drift De	ordes):	s:	d; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where	t (B11) nvertebrat n Sulfide Con Water Rhizosph	Odor (C1) Table (C2) eres on Liv	ing Roots	Secondary    V Surface Sparse  Drainag Oxidize (C3) (where	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) le Patterns (B10) d Rhizospheres on Living Roots (Core tilled)
Depth (in Remarks:  YDROLO  Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M	ordes):	s:	d; check all that app Salt Crus Aquatic II Hydroger Dry-Seas Oxidized (where	t (B11) nvertebrat n Sulfide C on Water Rhizosph not tilled	Odor (C1) Table (C2) eres on Liv  ) ed Iron (C	ing Roots	Secondary I  Surface Sparsel Drainag Oxidize (C3) (where	ndicators (minimum of two required soil Cracks (B6) y Vegetated Concave Surface (B8) ge Patterns (B10) d Rhizospheres on Living Roots (C re tilled) n Burrows (C8) ion Visible on Aerial Imagery (C9)
Depth (in Remarks:  YDROLO  Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De	ordes):	s: one require	d; check all that app  Salt Crus  Aquatic II  Hydroger  Dry-Seas  Oxidized  (where  Presence	t (B11) nvertebrat n Sulfide C con Water Rhizosph not tilled e of Reduce	Odor (C1) Table (C2) eres on Liv  I) ed Iron (C- (C7)	ing Roots	Secondary    Surface Sparsel Drainag Oxidize (C3) (where Saturate Geomo	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (Core tilled) in Burrows (C8) tion Visible on Aerial Imagery (C9) rephic Position (D2)
Depth (in Remarks:  YDROLO  Wetland Hy Primary Indi Surface High W Saturati Water M Sedime Drift De Algal M Iron De  Inundat	ordes):	s: one require	d; check all that app  Salt Crus  Aquatic II  Hydroger  Dry-Seas  Oxidized  (where  Presence	t (B11) nvertebrat n Sulfide C on Water Rhizosph not tilled	Odor (C1) Table (C2) eres on Liv  I) ed Iron (C- (C7)	ing Roots	Secondary    Surface Sparsel Drainag Oxidize (Whel Crayfish Saturati Geomo	ndicators (minimum of two required Soil Cracks (B6) y Vegetated Concave Surface (B8) te Patterns (B10) d Rhizospheres on Living Roots (Core tilled) in Burrows (C8) tion Visible on Aerial Imagery (C9) rephic Position (D2) eutral Test (D5)
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Data Point 1 Lacustrine Fringe Wetlands



Data Point 1 Lacustrine Fringe Wetlands



Data Point 2 Floodplain Meadows

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Data Point 3 Mesquite Woods



Data Point 4 Sumpweed Depressions



Data Point 5 Emergent Wetlands

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Data Point 6 Forested Wetlands



Data Point 7
Emergent Wetlands



Data Point 8
Forested Wetlands

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Data Point 9 Emergent Wetlands



Data Point 10 Floodplain Meadows



Data Point 11 Lacustrine Fringe Wetlands

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Data Point 11 Lacustrine Fringe Wetlands