Appendix E

Field Results

This appendix contains all field data collected for each of the wetland and upland areas investigated during the 2008/2009 wetland study.

- 1) Table E-1: Comprehensive Wetland Table presents all wetlands identified during the 2008/2009 study with notes on history, vegetation, soil, and hydrology.
- 2) Routine Wetland Determination Data Forms (data forms) for each area investigated during the 2008/2009 study.
- 3) Floristic Quality Assessment (FQA) results for each wetland plant inventory in the study area.
- 4) Section maps showing the field investigation results with wetland soil cores, upland soil cores and upland photo locations.

Field documentation is grouped by the fifteen Township/Sections within the study area (see below). Each Section group of data forms and FQA reports is accompanied by a summary table of all areas investigated in that Section and an aerial map showing the location of all results in that Section.

Monee Township

Section 31

Will Township

Sections 1-6

Sections 8-12

Washington Township

Sections 6-8

Table E-1
Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

			Mapped	Native	1996	1996	2002	2008	Initial		
Wetland ID	Wetland Type	NWI	Hydric	FQI	NRCS	Slide	Slide	Slide		Acreage	Comments
	Trottand Typo		, ,							710.04.90	
131NE-3	Wetland Complex	PEMC	l v	NA	W	W			1996	0.56	Edge of adjacent wetland, not visited during field work, from previous investigation
131NE-5	PEM	No	V	2.0	VV	VV		W	2008	0.08	herbicided farmed wet depression
131NE-6	PEM	No	V	0.0				W	2008	0.58	Inerbicided farmed wet depression
//31NE-7	PEM	No	V	3.6			W	VV	2002	0.30	
//31NE-7 //31NE-12a	PEM	No	In part	3.0			V V		2002	0.40	Wet meadow at edge of drainageway
131NE-12a 131NE-12b	PEM; Stream	No		ļ					2008	0.10	tiled drainageway with intermittant channel and wet veg;
131SW-1a	PEM; Stream	No	In part				W		1996	0.30	tiled drainageway with intermittant channel and wet veg;
131SW-1a	PEM; Stream	No	V				W		1996	0.07	
131SW-1b	PEM; Stream	No	V				W		2002	0.33	Segment of open channel in tiled drainageway
			Y								Segment of open channel in tiled drainageway
131SW-1e	PEM; Stream	No	Y				W		2002	0.01	Segment of open channel in tiled drainageway
131SW-1f	PEM; Stream	No	Y	ļ			W		2002	0.01	Segment of open channel in tiled drainageway
131SW-1g	PEM; Stream	No	Y	ļ			W		2002	0.03	Segment of open channel in tiled drainageway
131SW-1h	PEM; Stream	No	Y				W		2002	0.03	Segment of open channel in tiled drainageway
131SW-1k	PSS; PEM	No	Y						2008	0.19	Willow thicket at head of channel
/01NE-1a	PFO	PFO1A	Y		W	Ditch			1996	0.41	Part destroyed by Bolt field construction
/01NE-1b	PEM/FW	No	Υ				W		2002	1.52	
/01NE-2	PÉM/FW	No	Υ	0.0			W		2002	2.54	
/01NE-4	PEM/FW	No	Υ	2.4			Drainage		2002	0.59	
/01NE-6a	PEM/FW	No	Υ					Χ	2008	0.43	
/01NE-6b	PEM/FW	No	Υ					Χ	2008	0.04	
/01NE-7	PEM/Ditch	No	Υ	6.1				Χ	2008	0.14	
/01NE-9a	PEM	No	Υ					W	2008	1.03	
/01NE-9b	PEM/FW	No	In part						2008	0.01	
V01NE-9c	PEM/FW	No	In part						2008	0.05	
V01NE-9d	1=0 E1 M	No	Υ						2008	0.03	
V01NW-2a	PEM	No	In part		FW	FW			1996	0.78	Remnant of larger 1996 unit
V01NW-2b	PEM	No	In part	1			FW		2002	0.05	Remnant of larger 1996 unit
V01NW-3a	PEM	No	In part		FW	FW			1996	0.69	Remnant of larger 1996 unit
V01NW-3b	PEM	No	In part	1			FW		2002	0.03	Remnant of larger 1996 unit
V01NW-6a	₽ÉM	No	Ϋ́	8.7			W		2002	0.35	
V01SE-1	POW/PEM	No	Υ	14.0	W	Pond			1996	0.28	
V01SE-2a	PFO, PSS	No	Υ	20.3	W	Drainage			1996	0.04	Long drainage way with intermittant tile and open channel; mostly trees
V01SE-2b	PFO, PSS	No	Υ	8.1	W	Drainage			1996	0.01	
/01SE-2c	PFO, PSS	No	Y		W	Drainage			1996	0.01	
/01SE-2d	PFO, PSS	No	Y	1	W	Drainage			1996	0.12	
/01SE-2e	PFO, PSS	No	Y	1	W	Drainage			1996	0.06	
/01SE-2f	PFO, PSS	No	Y	1	W	Drainage			1996	0.09	
/01SE-2g	种O, PSS	No	Y		W	Drainage			1996	0.08	
/01SE-2h	Wetland Complex	No	Y	1	W	Drainage			1996	0.27	Seepy area at edge of field; head of stream for W01SE2
V01SE-211 V01SE-3	Wetland Complex Wetland Complex	PEMC	Y	16.0	PC	W			1996	1.48	FW-PC; Part open, Part wooded ravine
/01SE-4	PEM	No	Y	0.0	- 	W			1996	0.03	depression at edge of field/open water
/01SE-5	PFO	No	In part	4.2		**	W		2002	0.16	aspisses on at suger or more open water
/01SE-6	POW	No	In part	2.0		 	FW		2002	5.91	Retention Pond under construction on Bolt property
/01SE-7	PFO	No	III part	10.3		 	Drainage		1996	3.01	Tresention Folia under construction on bolt property
V01SE-7 V01SE-10	PEM	No	Y	1.7			ramaye		2008	0.02	
V01SE-10 V01SE-13	PEM	No	V	11.1				W	2008	0.02	
V01SE-13 V01SE-14	PFO, PSS	No	In part	16.2	W	Drainage		V V	2008	0.03	PEM, PSS near channel
V01SE-14 V01SW-1	PEM	No	ııı part V	10.2	PC	FW			1996	2.77	I Livi, i 30 near chainer
V01SW-1 V01SW-4a	PEM	No	Y	10.3	FU				1996	0.91	2008 polygon is larger
			1			Drainage					2008 polygon is larger
/01SW-4b	PEM	No	In part	4.6		Drainage			1996	0.03	

Table E-1

			Mapped	Native	1996	1996	2002	2008	Initial			
Wetland ID	Wetland Type	NWI	Hydric	FQI	NRCS	Slide	Slide	Slide	Year	Acreage	Comments	
W01SW-8	PEM	No	In part	2.0					2008		wet veg in tiled ditch	
W01SW-10	PEM	No	In part	2.5			+		2008	0.04	Wet veg in tiled diteri	
W010W 10	I LIVI	140	π ραπ	2.0					2000	0.04		
MACONIE 4	IDEM			44.4	107	147	<u> </u>		1000	0.00		
W02NE-1	PEM	No	Y	11.4	W	W	107		1996		Grassed waterway	
W02NE-4a	Wetland Complex	No	In part	0.0			W		2002		Seepy area at base of slope; many tile blowouts	
W02NE-4b	Wetland Complex	No	In part	9.0					2002		Seepy area at base of slope; many tile blowouts	
W02NE-4c	Wetland Complex	No	In part						2002		Seepy area at base of slope; many tile blowouts	
W02NE-5	PEM/FW	No	Y	5.9				W	2008	0.38		
W02NE-6	PEM	No	Y	7.8				W	2008		Mucky spot; high water table	
W02NE-7	Stream; PFO	No	Y	6.9					2008		Meandering stream channel in woods at base of hill; tile and seep H20	
W02NW-2	Stream; PEM	PEMCD	Υ	13.6	W	W			1996		Intermitant tiled stream with marsh	
W02NW-5	PEM/Seep	No	In part	4.9				W	2008		Seepage on gentle slope in pine plantation	
W02NW-6	PEM/FW	No	Υ	0.0					2008		Large farmed wetland	
W02NW-7	PEM;PSS	No	In part	20.1					2008		Low swale at base of hill	
W02NW-9	PEM;PSS	No	Υ	6.3			W		2002		Tiled and excavated within last 10yrs; recent spoil piles also present	
W02SE-2	POW	PUBG	Υ	NA	W				1996		excavated pond	
W02SE-4	PEM	No	Υ	4.1			W		2002		Grassed waterway	
W02SE-5	PEM;PSS	No	Υ	12.6			W		2002	1.34		
W02SE-7	PEM	No	In part	6.0					2008		Wet meadow	
W02SE-8	PEM;PSS	No	In part	9.3			W		2002	0.48		
W02SE-9	PEM	No	In part	6.0					2008	0.01		
W02SE-10	PEM/PSS	No	In part	8.0					2008		Low spot in ag field	
W02SE-12a	PSS	No	In part	9.0					2008		Dogwood Thicket	
W02SE-12b	PEM/PFO	No	In part	9.0					2008		Wet herb.veg under trees	
W02SW-1	Wetland Complex	PSS1C	Υ	6.9	W	W			1996		Swale;wet veg. 2008 includes W02SW2a and 2b;PEM;PSS; PFO;	
W02SW-3a	Wetland Complex	No	Υ	7.2	W	W			1996	2.41	PEM;PSS; PFO; R4SBJ	
W02SW-3b	PEM; PFO	No	In part						2008		Ponded, grassy area under trees.	
W02SW-5	PEM; Seep	No	In part	6.6					2008	0.19	Seepage on gentle slope in meadow	
W02SW-6a	PEM; R4SBJ	No	Υ						2008	0.11		
W02SW-6b	PEM; R4SBJ	No	In part	0.0					2008	0.07		
W02SW-6c	PEM; R4SBJ	No	In part	0.0					2008	0.05		
W02SW-6d	PEM; R4SBJ	No	In part						2008	0.05		
W02SW-7	PEM	No	In part	8.0					2008	0.24	Standing water; wet meadow depression.	
W02SW-9	PEM	No	Y	9.8					2008	0.41	Marsh	
BWC-W02	Stream;PFO	R2OWHx	Υ	12.8					1996	3.78		
W03NW-2	PEM/Ditch	No	Υ	5.6		W	/(NW3only	W	1996	0.37	Includes part of W03NW3	
W03SE-1	PEM	No	In part	6.1			. (W	2008	0.12		
W03SW-1	PEM	No	In part	6.4			+	W	2008	0.11		
BWC-W03	Stream;PFO	R2OWHx	Y	13.6				••	1996	8.11		
3 30	22			. 0.0						J		
W04SE-1a	PEM	PEMC	V	0.0	W	W			1006	0.09	Grassed waterway	
W04SE-1a W04SE-1b	Wetland Complex	PEMC	Y	13.3	W	W			1996 1996		Marsh; Thicket; Grove and Grassed waterway	
		PEMC/PEMAf	Y		VV	W						
W04SE-2a	Wetland Complex PEM		Y	8.9		W			1996		Branch of BWC; PFO;PSS and Pem	
W04SE-2b	PEM	PEMC; PEMAf	Y	0.7		W	+		1996			
W04SE-2c		PEMC; PEMAf	ı	0.0		٧٧	10/		1996			
W04SE-5	PEM/FW	No No	In part	0.0			W	14/	2002	1.96		
W04SE-10	PEM	No	In part	0.0			14/	W	2008		0.14 D.05 Tilled greeced waterway to PWC waterway	
W04SE-14	PEM	No	ı ı	5.3			W		2002		, ,	
W04SE-15	PEM/Seep	No	In part	6.4	147	147			2008		0.34 Seep on slope between corn	
W04SW-1a	Wetland Complex	PEMC	Y	15.7	W	W			1996	2.26	Willow thicket; sedge meadow; PFO	

Table E-1
Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

Wetland ID	Wetland Type	NWI	Mapped Hydric	Native FQI	1996 NRCS	1996 Slide	2002 Slide	2008 Slide	Initial Year	Acreage	Comments
W04SW-1b	PEM	No	V					W	2008	0.03	
W04SW-1c	PEM	No	Y	6.3				W	2008	0.01	
W04SW-2	Wetland Complex	No	Y	2.3			W		2002	2.12	PFO;Stream;PEM
W04SW-3a	Wetland Complex	No	Y	20.9			W		2002	1.67	Seepy, wet meadow; sloping drainageway.
W04SW-3b	PEM/FW	No	Y	0.0					2008	0.03	low spot in ag field
W04SW-7	PEM	No	Υ	0.0				W	2008	0.02	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
W04SW-8	PEM/FW	No	In part	0.0				W	2008	0.05	low spot,drainageway in ag field
W04SW-9	PEM	No	In part	7.8				W	2008	0.17	7 7
W04SW-10	Wetland Complex	No	Y	10.6				W	2008	1.97	
W04SW-12	PEM/FW	No	Υ	0.8				W	2008	0.14	
W04SW-14	PEM/FW	No	In part	4.9				W	2008		Severely eroded, tiled grassed waterway
BWC-W04a	Stream;PFO	R2OWHx	Ϋ́	12.4					1996	3.97	BWC and branch; PEM;PFO; Stream
BWC-W04b	Stream;PFO	No	Υ	7.2			W		2002	0.31	, , ,
BWC-W04c	Stream;PFO	No	Υ	1.5			W		2002	0.17	
	<u>'</u>			ı							
W05NW-1	PEM/FW;PSS	PEMC	Ιγ	17.2	FW	FW			1996	2.01	Large farmed wetland with willow thicket
W05NW-2a	Wetland Complex	No	V	21.1	W	W			1996	14.81	Large PEM;PFO;PSS next to Rock Creek; 2008 polygon larger
W05NW-2a W05NW-2b	PEM; PFO	No	In part	6.3	V V	V V			2008	0.09	Small emergent/wooded area next to drainage corridor
W05NW-25 W05SE-2	PEM/FW	No		0.0			W		2008	1.14	Small emergent/wooded area next to drainage comdor
W05SE-2 W05SW-1	Wetland Complex	PEMCd	In part	9.8	PC	W	Modified		1996	0.68	
W05SW-1	Wetland Complex		In part		W	W	Modified		1996		DEO-DSS-DEM: drainageway
W05SW-6	PEM	No No	In part	12.4	VV	VV		W		0.74	PFO;PSS;PEM; drainageway
			In part	0.0			14/	VV	2008	0.16	Matland antiques part housedons
W05SW-9	PSS; PEM	No	Y	9.0			W		1996	0.10	Wetland continues past boundary
W06NE-1	PEM; Drainageway	R2OWHx	Υ	7.0	W	W			2002	0.45	
W06NE-2	PEM	No	Υ	0.5					1996	0.85	no boundary points along SE boundary, so ran along NWI boundary - QC and re
W06NE-3	PEM;	No	In part	10.0					2008	0.07	
W06NE-5	PEM/FW	No	Υ	4.0				W	2008	0.19	
W06NW-1a	POW	POWGx	Υ	NA	AW	Pond			1996	2.85	Sewage settling pond
W06NW-1b	POW	POWGx	Υ	NA	AW	Pond			1996	0.58	Sewage settling pond
W06NW-2	POW	POWGx	Υ	NA	W	Pond			1996	0.19	Sewage settling pond
W06NW-3	PFO; Stream	No	Υ	12.2			W	2008 in pai		2.44	
W06NW-4	PFO; Stream	No	Υ	5.0			W		1996	0.44	
W06NW-5a	PEM	No	In part	5.9					2008	0.21	
W06NW-5b	PEM	No	Υ						2008	1.15	
W06NW-6	PEM	No	Υ	5.7					2008	0.11	
W06NW-7	PEM; Stream	No	In part	NA					2002	0.32	
RC-W06	Stream; PFO	R2OWHx	Υ	NA	W	Stream			1996	0.89	Rock Creek channel, not visited during field work, from previous investigation
W08NE-1	PEM	No	In part	0.0				W	2008	0.09	
W08NE-2	PEM	No	In part	1.6				W	2008	0.04	
W08NE-3	POW/PEM	No	In part	8.3				W	2008	0.02	Pond in front yard
W08NE-4	POW/PEM	No	Y	7.8				W	2008	0.10	Pond in front yard
W08NE-5	PEM	No	In part	6.4			W		2002	0.05	- · · / · ·
W08NE-6	PEM	No	In part	3.5			W		2002	0.40	used combination of corrected and uncorrected data to get most accurate
W08NE-7	PEM	No	In part	9.9			W		2002	0.17	
				J.J							1
W09NE-2	PEM/FW	Na	In part	4.0		PC		<u> </u>	1006	5 00	cultivated
		No	In part	4.0 10.7		70	\\/	W	1996	5.88	
W09SW-3	PEM Stroom: PEO	No B2OWHy	Y				W	VV	1996	0.31	Combined SW-2 and SW-3; smaller than original id
BWC-W09a	Stream;PFO	R2OWHx	Y	8.8					1996		BWC; Stream
BWC-W09b	Stream;PFO	R2OWHx	Υ	8.9					1996	2.84	BWC; Stream

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Comprehensive Wetland Table with notes on history, vegetation, soil, and hydrology

			Mapped	Native	1996	1996	2002	2008	Initial		
Vetland ID	Wetland Type	NWI	Hydric	FQI	NRCS	Slide	Slide	Slide		Acreage	Comments
	7,70			<u> </u>			<u> </u>	<u> </u>	<u> </u>		
V10NE-1	POW	POWGx	In part	5.5	AW	Pond			1996	0.05	used combination of corrected and uncorrected data to get most accurate
V10NE-2	PEM/FW	No	Y	2.8	FW	FW			1996	0.70	dised combination of corrected and uncorrected data to get most accurate
V10NE-2	PEM/FW	No	Y	0.0	PC	PC			1996	1.74	
W10NE-4	PEM/FW	No	Y	1.5	FC	FC	FW		2002		in part; 1996 polygon is smaller and to the south of 2008
W10NE-4 W10NW-1	PEM/FW	PEMAf	T V	0.0	PC	PC	ГVV		1996	0.18	In part, 1996 polygori is smaller and to the south of 2006
3WC-W10	Stream;PFO	R2OWHx	Y V	16.3	PC	PC	W		2002		BWC; Stream
500-0010	Stream, PFO	RZOVITX	Ī	10.3			VV		2002	1.72	DWC, Stream
A/4 4 N I = 4	IDOM/DEM	DOWO		40.0	107		ī	ī	4000	0.40	In the second second
V11NE-1	POW/PEM	POWGx	Y	10.6	W	Pond			1996		Pond with wetland fringe
V11NE-2	POW	No	Y	12.4		Pond			1996		W 90-94
V11NE-2b	Stream	No	Υ						1996		S. branch Rock Creek
V11NE-4	PEM/FW	No	Υ	4.9		FW			1996		Larger in 1996
V11NW-1a	PEM	No	Υ	3.0		FW			1996		Grassed waterway. Part of NW-1; smaller than original polygon
V11NW-1b	PEM	No	Υ	3.5		FW			1996		Grassed waterway. Part of NW-1; smaller than original polygon
V11NW-2	PEM/FW	No	Υ	0.0		FW			1996		Smaller than 1996 polygon
W11NW-10	PEM/FW	No	In part	5.0			FW		2002	0.28	
W11SW-2	Stream	No	Υ	11.4					1996	1.87	S. branch Rock Creek
V12NE-3	PEM	No	Υ	2.1		PC			1996	0.16	Small wet area in dry polygon
V12NE-4	PEM/FW	No	Υ	15.4		Pond			1996	0.83	71 70
V12NE-5	PEM	No	Υ	0.9					2008	0.38	
W12NE-6a	PEM	No	Υ	5.3			W		2002		Narrow linear feature
W12NE-6b	PEM	No	Υ	8.6					2002		Wet polygon next to drainage
W12NW-1	PEM/FW	PEMAf	Υ	8.1	FW	FW			1996	0.67	
W12NW-2	PEM/FW	PEMAf	Y	7.6	FW	FW	W		1996	0.38	
W12NW-3	POW	No	In part	11.5			Pond		2002	0.74	
W12NW-4	Stream	R2OWHx	Y	5.3			W		2002		Drain from W01SW4 north; tiled segment of trib of SBRC.
W12NW-5	POW/PEM	No	Y	9.3			W		2002	0.49	Promit trong trong transfer and degree of the or estren
W12NW-6	POW	No	Y	8.7			Pond		2002	0.08	
W12NW-7b	PEM	No	In part				W		2002	0.19	
W12NW-7c	PEM	No	Y	5.4			W		2002	0.04	
W12NW-8	PEM	No	Y	7.0			W		2002		Next to channel
V12NW-12		No	Y	4.0			V V	W	2008	0.28	TVOX to onumer
7 121400 12	LIVI/I VV	110	'	7.0				V V	2000	0.20	<u> </u>
NCOENE 20	PEM	PFO1C/PEMC	V	2.7	۱۸/	Ditch	<u> </u>	Ī	1006	0.00	
VS06NE-2a	PEM; PFO	PFO1C/PEMC PFO1C/PEMC	Y	2.7	W				1996	0.00	
VS06NE-2b			Y	9.2		Ditch			1996	0.01	
VS06NE-3	Wetland Complex	PEMC	Y	10.2	W	W	DC.		1996	2.63	W 00 04 04
VS06NE-5	PEM/FW	No	•	0.0	DC	FW	PC		1996		W 90,91,94
VS06NW-1	PEM/FW	PEMAf	In part	6.0	PC	PC			1996	1.31	
WS06NW-2	Wetland Complex	PEMC	Y	6.8	PC	FW	147		1996	1.57	
VS06NW-3b		No	Y	0.0		PC	W		2002	0.08	Other and the second and the second
	Wetland Complex	No	Y	7.5				147	2008		Stream thru cow pasture
	PEM/Stream	No	Υ		10.	5		W	2008	0.38	
	•	No	Υ	3.5	W	Ditch		147	1996	0.40	Tributary to Plum Creek; PFO,PSS,
VS06SW-8	PEM	No	In part	9.3				W	2008	1.23	
VS07NE-9	PEM; PSS	No	Υ	1.1				X	2008	0.29	
WS07NW-1	POW	POWHx	Υ	7.0	W	Pond			1996	1.79	
VS07NW-2	PEM	PEMCf	Υ	8.1	PC	W			1996	6.03	
WS07NW-3a	PEM	No	Υ	10.8				Х	2008	2.01	

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			Mapped	Native	1996	1996	2002	2008	Initial		
Wetland ID	Wetland Type	NWI	Hydric	FQI	NRCS	Slide	Slide	Slide	Year	Acreage	Comments
WS07SE-1	Wetland Complex	PEMAf,PEMCd,	Υ	25.5	W/PC	W/FW			1996	111.39	number for all Beecher marsh areas
WS07SE-1b	POWHx	No	Υ	25.5				Χ	2008	0.31	man-made pond south of marsh
WS07SE-7	PEM	No	Υ	3.6				Χ	2008	0.05	
WS07SE-8	PEM	No	Υ	2.3				Χ	2008	0.08	
WS08NE-4	PEM/Stream	No	Υ	10.0		PC		Χ	2008	0.53	
WS08NE-5	PEM/FW	No	Υ	2.9		PC		Χ	2008	0.71	
WS08NE-6	PEM/FW	No	In part	3.5		PC		Χ	2008	0.11	
WS08NW-1	Wetland Complex	No	Υ	3.6	W	W			1996	0.22	PEM/PSS/PFO
WS08NW-2	Wetland Complex	PEMAf	Υ	7.3	PC	W			1996	0.61	PEM/PSS/PFO
WS08NW-4	PEM/FW	No	Υ	0.0	PC	W			1996	0.38	
WS08NW-5	PEM/FW	No	Υ	0.0	PC	PC			1996	0.65	
WS08NW-9	PEM	No	Υ	8.8	PC	no		Χ	2008	0.66	
WS08SW-2a	PEM	No	Υ		W	W			1996	0.02	
WS08SW-2b	PEM	No	Υ		W	W			1996	0.00	
WS08SW-2c	PEM	No	Υ	5.4	W	W			1996	0.00	
WS08SW-2d	PEM	No	Υ		W	W			1996	0.01	
WS08SW-2e	PEM	No	Υ		W	W			1996	0.00	
WS08SW-3	PEM/FW	No	Υ	0.0	PC	PC			1996	0.22	

KEY TO TABLE E-1:

WETLAND ID

Lists polygon in order by township, section and quarter section location: W01SE-2a is in Will Township, Section 1, southeast quarter. A number suffix (-2) is assigned in order of entry. An alpha modifier is used ("a") when a collection of similar wetlands is identified with one set of soil cores. Stretches of Black Walnut Creek (BWC), Rock Creek (RC) and the South Branch of Rock Creek (SBRC) have an alpha designator.

WETLAND TYPE

USFWS wetland classifications Palustrine (inland wetlands) and Riverine (associated with a stream): PEM=Emergent Wetland including marshes, wet meadows, sedge meadows and farmed wetlands PFO=Forested Wetlands

PSS=Scrub-Shrub including typically willow, dogwood and/or elderberry thickets as well as sapling trees.

POW=Open Water including both naturally-occurring and man-made ponds

Wetland Complex= Areas comprised of three or more wetland types

Riverine=Streams and Drainageway channels; The numeric modifier refers to flow regime.

Uses USFWS types PEM, PFO, and PSS. Upper-case alpha modifiers for hydrologic regime and lower-case alpha modifiers for special conditions: PEMAf=PEM, temporarily flooded, farmed; PEMCd=PEM, seasonally flooded, partially drained/ditched; POWHx=Open Water, permanently flooded, excavated

MAPPED HYDRIC

Indictates whether or not the polygon occurs in a mapped hydric soil unit

NRCS 1996

NWI

Polygons originally found on NRCS Wetland Maps during the 1996 study.

W-- uncultivated wetland.

FW-- farmed wetland

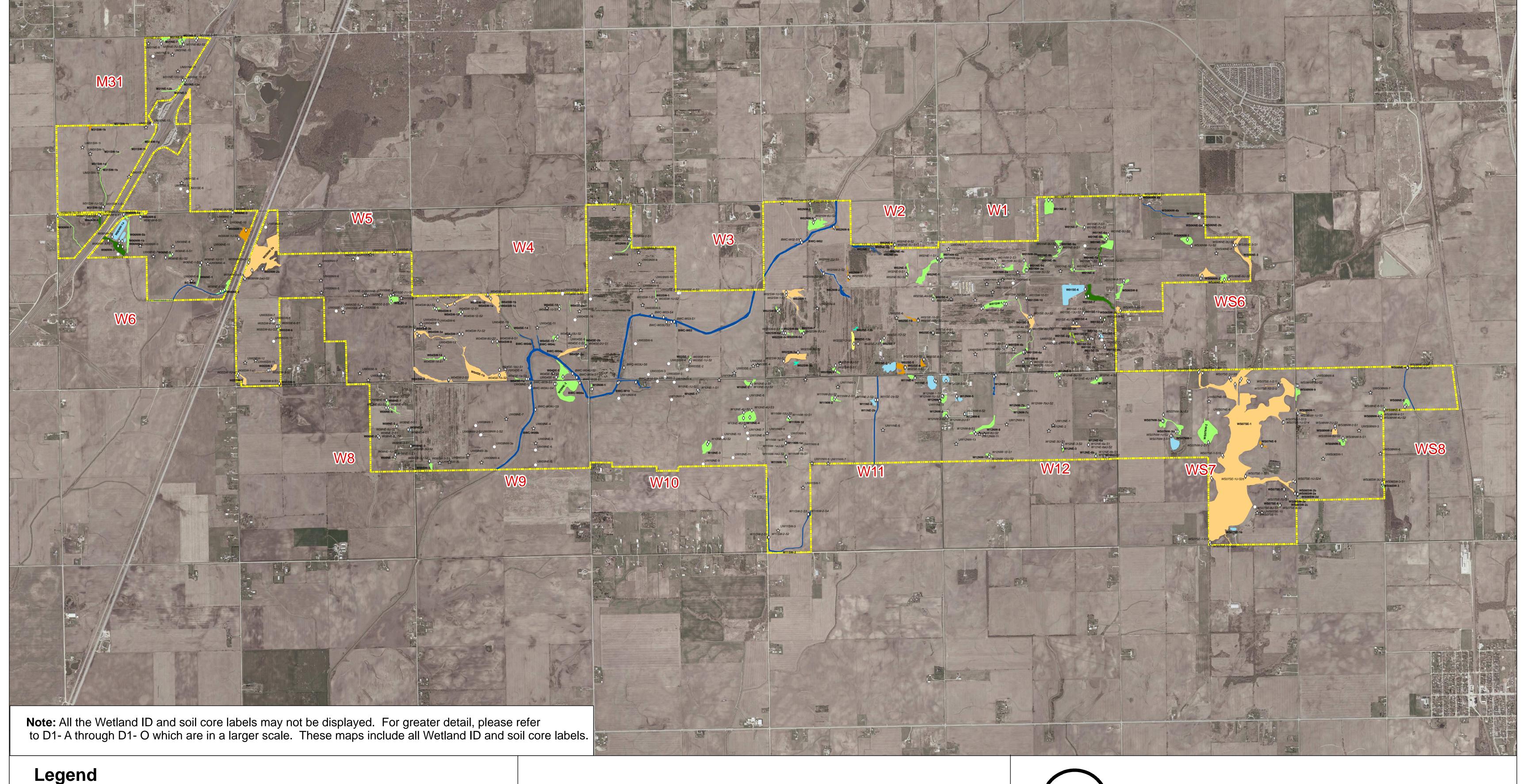
PC-- prior converted wetland (converted to agricultural use prior to December 23, 1985).

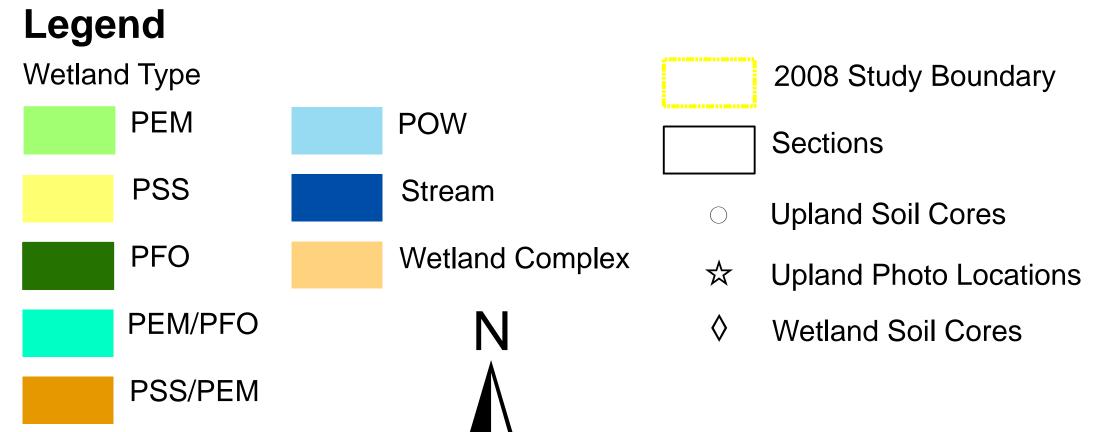
NW-- non-wetland

AW-- artificial wetland, including excavated ponds, guarries or gravel pits, and settling ponds.

NRCS MAPPING CONVENTION AERIAL SLIDE REVIEW

Year of aerial Slide review.





PFO/PSS

EXHIBIT E-1
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport





2,000 4,000 8,000 12,000 Feet

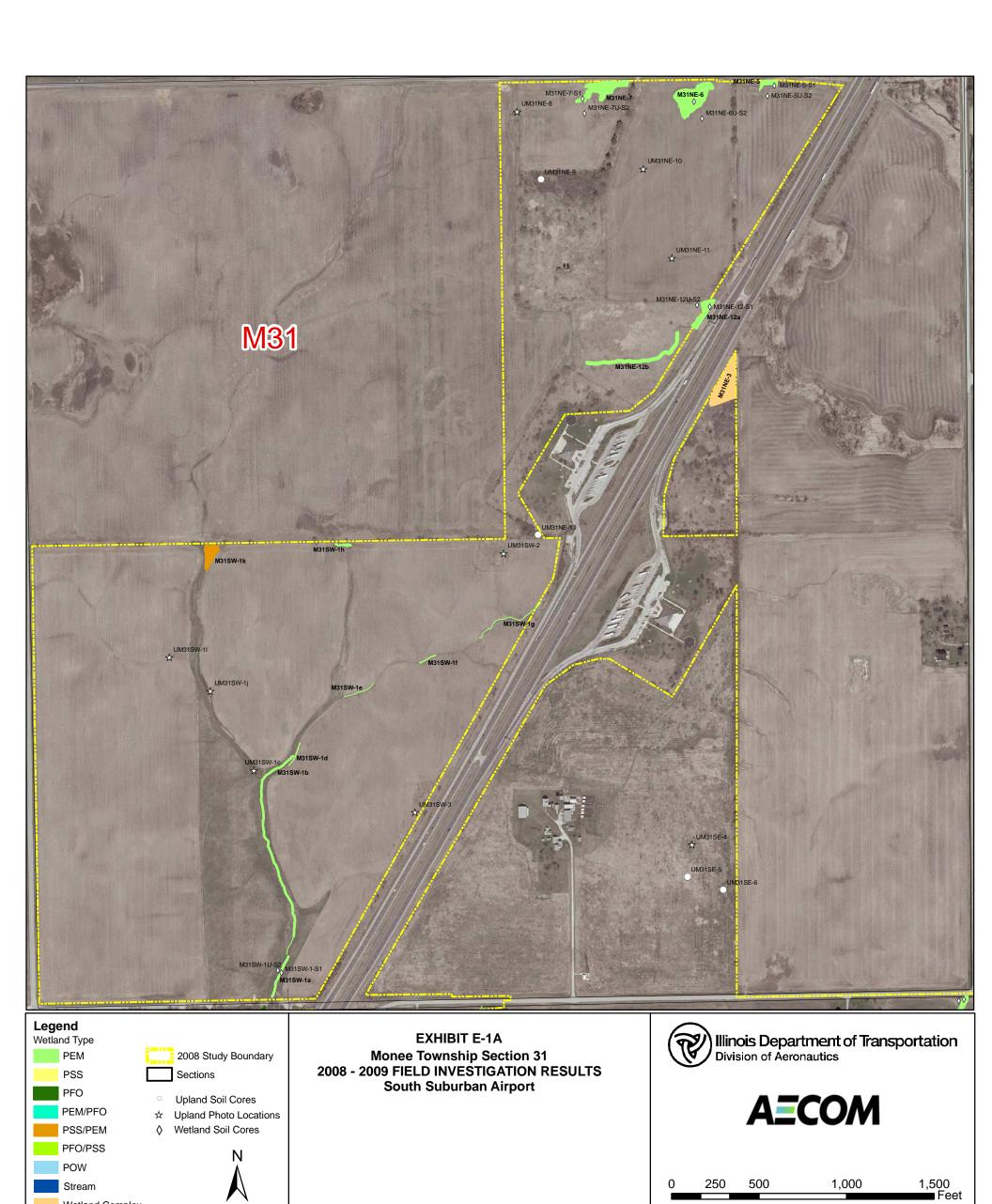
Dago 20E

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Appendix E Section Monee 31

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
M31NE-3	NA	NA	NA	No field form, not visited
M31NE-5-S1	25	Yes	0.0	
M31NE-5U-S2	21	No	2.0	
M31NE-6-S1	20	Yes	0.0	
M31NE-6U-S2	21	Yes	0.0	
M31NE-7-S1	22	Yes	2.0	
M31NE-7U-S2	20	Yes	3.6	
UM31NE-8	NA	NA	NA	Photo S
UM31NE-9	21	Yes	NA	
UM31NE-10	NA	NA	NA	Photo W
UM31NE-11	NA	NA	NA	Photo E
M31NE-12-S1	21	Yes	5.4	
M31NE-12U-S2	21	No	5.4	
UM31NE-13	20	No	NA	
UM31SE-4	NA	NA	NA	Photo S
UM31SE-5	20	No	NA	
UM31SE-6	27	No	NA	
M31SW-1-S1	21	Yes	9.0	
M31SW-1U-S2	21	Yes	9.0	
UM31SW-1c	NA	NA	NA	Photo NW, no data form
UM31SW-1I	NA	NA	NA	Photo E, no data form
UM31SW-1j	NA	NA	NA	Photo S, no data form
UM31SW-2	NA	NA	NA	Photo W
UM31SW-3	NA	NA	NA	Photo N

NA = not applicable



Wetland Complex

Site: Inaugural South Suburban Airport

Locale: M31NE5

Date: September 30, 2008 1 hours
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\M31NE5.inv
Notes: Area impacted by herbicide

FLORISTIC QUALITY DATA	Native	6	50.0%	Adventive	6	50.0%
6 NATIVE SPECIES	Tree	1	8.3%	Tree	0	0.0%
12 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.0 NATIVE FQI	P-Forb	1	8.3%	P-Forb	3	25.0%
1.4 W/Adventives	B-Forb	0	0.0%	B-Forb	1	8.3%
-2.7 NATIVE MEAN W	A-Forb	2	16.7%	A-Forb	1	8.3%
-0.7 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland	A-Grass	1	8.3%	A-Grass	1	8.3%
	P-Sedge	1	8.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%	,		
CRONYM C SCIENTIFIC NAME				W WETNESS PHY	SIOGNOMY	COMMON

	Cryptogam 0	0.0%		
ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
CIRARV	0 CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
ELEERY	2 Eleocharis erythropoda	-5 OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
ERICAN	0 Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
POLLAP	O Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/30/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: T. Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? Station ID: M31NE-5 X Yes No Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Uncultivated area next to corn field. Some vegetation appears brown, dying and wilted as if the area had been herbicided VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name <u>Species Name</u> <u>Stratum</u> % Cover Polygonum lapathifolium FACW+ **HERB** 10 Setaria faberi FACU+ **HERB** 15 8. Rumex crispus **HERB** 3. FAC+ 20 9. Chenopodium album FAC-**HERB** 10 10. __ 5. Panicum dichotomiflorum FACW-HERB 5 11. 60 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Vegetation difficult to estimate because of dead/dying stems **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Uncropped area in corn field--soil cracks and bare areas. NRCS aerial review site. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly Drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 24 A1 2/1 few distinct silty clay loam; moist friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/30/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: T. Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31NE-5 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Next to corn field; appears to have been herbicided **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Cirsium arvense **FACU HERB** 15 Rumex crispus FAC+ **HERB** 8. 5 Convza canadensis FAC-**HERB** 15 9. 3. Taraxacum officinale FACU **HERB** 10 10. ----5. Setaria faberi FACU+ **HERB** 15 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam/Markham silt lo Series Drainage Class: Poorly drained/Moderately well drained Taxonomy (Subgroup): Typic Endoaquolls/Mollic Oxyaquic Hapludall Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Top Bottom Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 17 Α1 2/1 10YR 4/4 few distinct silty clay loam; moist, friable 17 20 A2 N 2.5/1 NA NA NA Mucky, silty loam, moist NA Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Profile resembles Ashkum, but lacks indicators. Buried horizon at 17". Area has unnatural aspect as if disturbed by fill or dumping. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: M31NE6

Date: September 30, 2008 1 hours
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE6.inv

5 NF 12 7 0.0 NF 0.0 V 0.0 NF 0.0 V -1.6 NF 0.6 V	N/Adventives ATIVE MEAN W	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	0	41.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0		Tree Shrub W-Vin H-Vin P-For B-For A-For	e e b b ss ss	0 0 0 0 0 4 0 3		
ACRONYM	C SCIENTIFIC NAME				W	WETNESS	PН	YSIOGNOMY	COMMON NAME	
ABUTHE	0 ABUTILON THEOPHRAS	TI			4	FACU-	Ad	A-Forb	VELVETLEAF	
AMAHYB	0 Amaranthus hybridus					UPL	Nt	A-Forb	GREEN AMARANTH	
CHEALB	0 CHENOPODIUM ALBUM				1	FAC-	Ad	A-Forb	LAMB'S QUARTERS	
ECHCRU	0 Echinochloa crusga	11i		-	-3	FACW	Nt	A-Grass	BARNYARD GRASS	
HIBTRI	0 HIBISCUS TRIONUM				5	UPL	Ad	A-Forb	FLOWER-OF-AN-HOUR	
IPOHED	O IPOMOEA HEDERACEA				0	FAC	Ad	A-Forb	IVY-LEAVED MORNING GLO)RY
PANDII	O Panicum dichotomif	lorum			-2	FACW-	Nt	A-Grass	KNEE GRASS	
POLLAP	0 Polygonum lapathif	olium			– 4	FACW+	Nt.	A-Forb	HEARTSEASE	
POLPEN	O Polygonum pensylva					FACW+		A-Forb	PINKWEED	
		III C um								
SETFAB	O SETARIA FABERI				2	FACU+	Ad	A-Grass	GIANT FOXTAIL	
SETGLA	O SETARIA GLAUCA				0	FAC	Ad	A-Grass	YELLOW FOXTAIL	
SETITA	O SETARIA ITALICA				3	FACU	Ad	A-Grass	FOXTAIL MILLET	

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/30/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: **T. Radke** State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: M31NE-6 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Large sparsely vegetated area in cornfield; field tiles and blowouts present VEGETATION Dominant Species (50/20 Rule) Ind.Status Species Name Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Setaria glauca FAC **HERB** 20 7. Hibiscus trionum UPL **HERB** 20 8. Echinochloa crusgalli FACW **HERB** 3. 10 9. 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Large bare area with soil cracks, evidence of ponding. NRCS aerial review site; drainage tiles and blowout holes visible SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 20 A1 2/1 common faint silty clay loam; moist friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/30/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: T. Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31NE-6 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Corn field with successful crop. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays 2. 8. 3. --9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? **X** No Yes Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Α1 3/1 10YR common distinct silty clay loam, moist, friable. Sandstone fragments in lower layer. 10YR many distinct 9 20 A2 10YR 41 10YR common distinct silty clay loam, moist, firm 3/2 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport Locale: M31NE7
Date: 0-7

Locale: M31NE7
Date: October 2, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE7.inv

FLORISTIC QUALITY DATA 5 NATIVE SPECIES 15 Total Species 1.6 NATIVE MEAN C 0.5 W/Adventives 3.6 NATIVE FQI 2.1 W/Adventives -2.4 NATIVE MEAN W 0.5 W/Adventives AVG: Fac. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	5 1 1 0 0 0 1 0 0 0 0 0 2 0 0 0	33.3% 6.7% 6.7% 0.0% 0.0% 6.7% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Tree Shruk W-Vir H-Vir P-For B-For A-For A-Gra A-Gra	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	66.7% 6.7% 0.0% 0.0% 0.0% 6.7% 6.7% 33.3% 0.0% 13.3% 0.0%
ACRONYM C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
ABUTHE 0 ABUTILON THEOPHRAS	TI		4	FACU-	Ad A-Forb	VELVETLEAF
ACESAI 0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
APOSIB 2 Apocynum sibiricum	1		-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
CHEALB 0 CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CORSTO 6 Cornus stolonifera	Į.		-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
ECHCRU 0 Echinochloa crusga	lli		-3	FACW	Nt A-Grass	BARNYARD GRASS
HIBTRI 0 HIBISCUS TRIONUM			5	UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
IPOHED 0 IPOMOEA HEDERACEA			0	FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
MELALB 0 MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
MORALB 0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PANDII 0 Panicum dichotomif	lorum		-2	FACW-	Nt A-Grass	KNEE GRASS
SETFAB 0 SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA 0 SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR 0 SOLANUM CAROLINENS	E		4	FACU-	Ad P-Forb	HORSE NETTLE
XANSTR 0 XANTHIUM STRUMARIU	IM		0	FAC	Ad A-Forb	COCKLEBUR

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) South Suburban Airport 10/02/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: PEM X No Is The Site Significantly Disturbed (Atypical Situation)? Yes Station ID: M31NE-7 Is The Area A Potential Problem Area? Plot ID: S1 X Yes Nο (If yes, define below.) Remarks: Soil core in large bare area in cornfield; likely tiled VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Abutilon theophrasti FACU-**HERB** 1 Echinochloa crusgalli **FACW HERB** 1 8. Morus alba TREE 3. FAC 1 9. 4. 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant though sparse **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 13 Α 2/1 NA NA NA silty clay loam; moist, friable 13 17 A2 10YR 2/1 10YR 3/2 common silty clay loam; moist, friable faint 17 10YR 22 А3 2/1 NA NA NΑ NA silty clay; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Profile matches hydric Ashkum. Dark matrix masks redox. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) South Suburban Airport 10/02/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31NE-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Soil core is in cornfield; vegetation parameter is altered **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Chenopodium album FAC-HERB Setaria faberi FACU+ **HERB** 8. 1 Panicum dichotomiflorum 3. FACW-**HFRB** 9. 1 Polygonum coccineum OBL **HERB** 10. --5. Zea mays UPL **HERB** 70 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA_** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Corn is successful; no evidence of ponding SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Α1 2/1 NA NA NA silty clay loam; moist, friable 13 20 A2 10YR 2/1 10YR 3/4 few faint silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Sample is similar to wetland soil core. **WETLAND DETERMINATION X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/22/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31NE-8 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Small tiled drainageway next to cornfield; no soil core taken **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Solidago altissima **FACU HERB** 30 8. Arctium minus 3. UPI **HFRB** 20 9. Setaria faberi FACU+ **HERB** 20 10. --5. Morus alba FAC **TREE** 10 11. FACW-Cornus racemosa **SHRUB** Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? * Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils are mapped. *No soil core taken. **WETLAND DETERMINATION X** No Hydric Soils Present? * Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. *Non-hydric soils are mapped. No soil core taken, because wetland vegetation and hydrology are not present.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/19/08 Project/Site: **South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; T.Radke State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31NE-9 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Plot at base of northfacing slope, 50' south of edge of cultivated field. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Acer saccharinum **FACW TREE** 55 8. FACW-SHRUB 10 9. 3. Cornus racemosa Fraxinus pennsylvanica **FACW** TREE 10 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 2/1 NA NA NA Silty loam; moist, friable 9 17 В1 10YR 4/2 NA NA NA NA Silty loam; moist, friable 10YR distinct 5/6 common 17 10YR 21 B2 4/3 10YR common faint Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil appears to be an Ashkum inclusion. WETLAND DETERMINATION Hydric Soils Present? X Yes Nο Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/19/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31NE-10 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Very shallow swale in corn field. Corn stubble shows no sign of washout or scour. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum Ind. Status Species Name % Cover Species Name <u>Stratum</u> % Cover UPS Zea mays Herb 100 2. 8. 3. --9. 4. --10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is not dominant. Corn crop successful **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology not present. NRCS ID; no sign of ponding or crop failure. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Soil core not taken since crop is successful and there is no sign of wetland hydrology. **WETLAND DETERMINATION X** No Hydric Soils Present? Nο * Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. Hydric soils mapped. *Soil core not taken

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/19/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: M31NE-11 Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Successful corn crop. No soil core taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum Ind. Status Species Name % Cover Species Name <u>Stratum</u> % Cover UPS Herb 100 Zea mays 2. 8. 3. --9. 4. --10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology not present. NRCS ID; area is low spot but no sign of ponding or crop failure. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils mapped. *Soil core not taken, since wetland vegetation and hydrology are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? * No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. Non-hydric soils mapped. *Soil core not taken

Site: Inaugural South Suburban Airport
Locale: M31NE12a & b
Date: November 19, 2008 1 hours
By: AECOM: T.Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\M31NE12a&b.inv

11 NA 20 T 1.6 NA 0.9 W 5.4 NA 4.0 W -0.5 NA	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	11 4 3 0 0 3 0 1 0 0 0 0	55.0% 20.0% 15.0% 0.0% 0.0% 15.0% 0.0% 5.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Adven Tree Shruh W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed A-Sed	0 ee 0 0 ee 0 0 bb 2 2 bb 1 1 bb 0 0 ess 5 5 ess 0 dge 0	45.0% 5.0% 0.0% 0.0% 0.0% 10.0% 5.0% 0.0% 25.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CRACRU	2 Crataegus crus-gal	li		0	FAC	Nt Tree	COCKSPUR HAWTHORN
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	O PHALARIS ARUNDINAC	EA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RHUGLA	1 Rhus glabra			5	UPL	Nt Shrub	SMOOTH SUMAC
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra			-5	OBL	Nt Tree	BLACK WILLOW
SOLCAR	0 SOLANUM CAROLINENS	E		4	FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) South Suburban Airport Project/Site: Date: 11/19/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31NE-12 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway with culvert under I-57. Point west of roadway. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Poa pratensis FAC-**HERB** 20 8. 3. FACU HFRB Agropyron repens 10 9. 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic reed canary grass is dominant cover but shares dominance with Kentucky bluegrass **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Tiled drainageway at lowest point in field. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 19 Α 10YR 2/1 NA NA NA NA Silty clay loam; moist, friable 19 21 В 10YR 4/2 10YR 5/6 common distinct Silty clay; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Profile matches Ashkum--drainageway is an inclusion in the upland unit WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/19/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31NE-12 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Upland point west of tiled drainageway **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Stratum % Cover Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 70 Poa pratensis FAC-**HERB** 25 8. 3. Cirsium arvense FACU **HFRB** 5 9. 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA_** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 12 3/2 NA NA NA NA Silty loam; moist, friable 12 В1 10YR 4/3 10YR common faint Silty loam; moist, friable; organic streaking from upper layer 16 3/2 16 21 10YR B2 4/4 NΑ NA NA NA Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/19/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31NE-13 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Plot located just outside ISTHA rest area fence at south end of SB rest area property **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Vitis riparia FACW-VINE 20 8. SHRUB FACW-3. Cornus racemosa 80 9. Crataegus mollis FACW-**TREE** 40 10. --5. Acer negundo FACW-**TREE** 10 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) X FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 3/2 NA NA NA NA Silty loam; moist, friable 13 20 A2 10YR 2/1 NA NA NA NA Silty loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Buried horizon of 10YR 2/1 at 13" (under 3/2) WETLAND DETERMINATION Hydric Soils Present? **X** No Nο Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/05/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31SE-4 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Old field VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 70 Asclepias syriaca UPL **HERB** 8. FACU **HFRB** 3. Solidago altissima --9. Daucus carota UPL **HERB** 10. ----5. Rosa multiflora **FACU SHRUB** 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Smooth brome is dominant **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Point is at the top of a hill. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils are mapped. *No soil core taken because wetland vegetation and hydrology are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? * No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. Non-hydric soils mapped; *no soil core taken. Plot is on top of a hill.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 11/05/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31SE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Old field on slope of hill VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Salix exigua OBL **SHRUB** 20 8. Solidago altissima 3. FACU HFRB 9. 10 Gleditsia triacanthos FAC **SHRUB** 10. ----1 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA_** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) X FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 2.5Y 0 10 Α1 4/2 NA NA NA Silty clay loam; moist, friable 10 15 A2 2.5Y 4/2 2.5Y 2.5/1 common distinct Silty clay loam; moist, friable distinct 10YR 5/6 common 15 2.5Y Silty clay loam; moist, friable; trace of gravel 20 В 5/2 2.5Y common distinct Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydric Soils Present? **X** No Nο Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/05/08 Project/Site: **South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31SE-6 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Old field at base of hill VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 100 2. 8. 3. 9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Small area of reed canary grass amid solid stand of smooth brome. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 12 3/2 NA NA NA NΑ Silty Loam; moist, friable 12 27 A2 10YR 2/1 NA NA NA NA Silty loam; moist, friable; appears to be a buried hydric horizon Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Profile did not completely match any of the hydric soil indicators Layer of sediment over buried horizon at 12". Buried soil color and texture appears to match the Ashkum profile. WETLAND DETERMINATION Nο Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No Yes X No Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation

Locale: M31SW1

Locale: M31SW1
Date: October 22, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\M31SW1.inv
Notes: FQI includes M31SW1a-h and M31SW1k

25 NA 36 1 1.8 NA 1.3 T 9.0 NA 7.5 T -2.3 NA -1.0 T	TIC QUALITY DATA ATIVE SPECIES Fotal Species ATIVE MEAN C M/Adventives ATIVE FQI M/Adventives ATIVE MEAN W M/Adventives ac. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	25 2 3 1 0 9 0 4 1 2 3 0	69.4% 5.6% 8.3% 2.8% 0.0% 25.0% 0.0% 11.1% 2.88% 5.6% 8.3% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed A-Sed	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2.8% 0.0% 2.8% 0.0% 5.6% 5.6% 2.8% 5.6% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNO	MY COMMON NAME
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	O Asclepias syriaca			5	UPL	Nt P-Forb	COMMON MILKWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Gras	s HUNGARIAN BROME
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedg	e CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedg	e BROWN FOX SEDGE
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Forb	HEDGE BINDWEED
DAUCAR	O DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusga	11i		-3	FACW	Nt A-Gras	s BARNYARD GRASS
GEULAT	2 Geum laciniatum tr	ichocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomif	lorum		-2	FACW-	Nt A-Gras	s KNEE GRASS
PHAARU	O PHALARIS ARUNDINAC	EA		- 4	FACW+	Ad P-Gras	s REED CANARY GRASS
POLCOC	4 Polygonum coccineum	m		-5	OBL	Nt P-Forb	WATER HEARTSEASE
POLLAP	0 Polygonum lapathif	olium		- 4	FACW+	Nt A-Forb	HEARTSEASE
POLPEN	O Polygonum pensylva	nicum		- 4	FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICAR	IA		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RORPAF	4 Rorippa palustris	fernaldiana		-5	OBL	Nt A-Forb	MARSH CRESS
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW

SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) South Suburban Airport 10/22/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31SW-1 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled, stream corridor extends across section 31. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 85 2. Bromus inermis UPL **HERB** 15 8. 3. 9. 4. --10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Soil core is next to tiled stream channel. Channel open. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 18 Α 2/1 10YR common prominent Clay loam; moist, friable 2.5Y common prominen 18 21 В 10YR 2/1 10YR 5/6 prominent Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) South Suburban Airport 10/22/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: M31SW-1 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Upland point is >12" higher than channel and wet point. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 95 Cirsium arvense FACU **HERB** 8. 5 **SHRUB** 3. Sambucus canadensis FACW-15 9. 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 11 2/2 NA NA NA Silty clay loam; moist, friable 11 21 A2 10YR 4/3 10YR 2/2 common prominent Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (F1) Loamy Mucky Mineral (A4) Hydrogen Sulfide (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

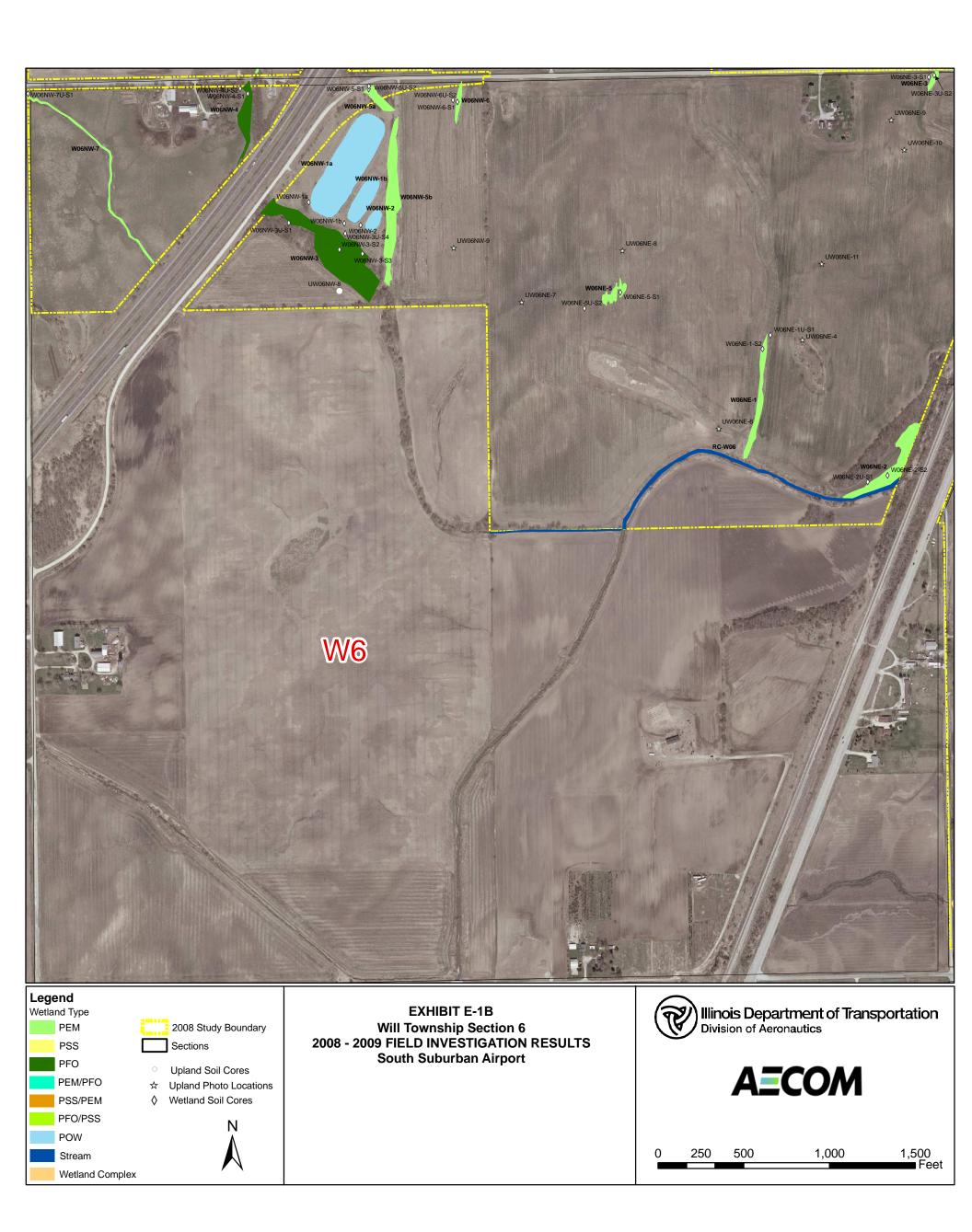
DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/22/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: M31SW-2 Yes Is The Area A Potential Problem Area? X Yes Plot ID: NA Nο (If yes, define below.) Remarks: Long tiled stream/drainageway extends n/s across entire section. This portion upland. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Daucus carota UPL **HERB** Dactylis glomerata **FACU HERB** 8. 3. Cirsium arvense **FACU HERB** --9. Sonchus uliginosus FAC-**HERB** --10. --5. Prunus serotina **FACU TREE** 11. Cornus foemina FACW-**SHRUB** Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 13% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Soil core not taken, because wetland vegetation and hydrology are absent. **WETLAND DETERMINATION X** No Hydric Soils Present? * Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? X No Yes Yes Remarks: Plot not in a wetland. Drainageway mapped hydric soil. *No hydrophytic vegetation or wetland hydrology present, so no core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/22/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: M31SW-3 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: NRCS ID area at edge of cornfield next to I-57. Drainage patterns in field to west indicate probable tile location here. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> Daucus carota UPL **HERB** Solidago altissima FACU **HERB Bromus inermis** UPL **HERB** 8. 3. Cirsium arvense **FACU HERB** 9. Festuca elatior UPL **HERB** --10. ----Poa pratensis FAC-**HERB** 11. 5. FACW-**SHRUB** Cornus racemosa Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 13% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded D. carota, B. inermis, and S. altissima co-dominants **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Soil core not taken. WETLAND DETERMINATION **X** No Hydric Soils Present? * Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: Hydric soils mapped. Probable tile location. *Wetland vegetation and hydrology not present, so not soil core collected.

Appendix E Section Will 06

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
W06NE-1-S2	20	Yes	7.0	
W06NE-1U-S1	21	No	7.0	
W06NE-2-S2	34	Yes	٥. ٦	
W06NE-2U-S1	27	Yes	0.5	
W06NE-3-S1	21	Yes	40.0	
W06NE-3U-S2	23	No	10.0	
UW06NE-4	NA	NA	NA	Photo S
W06NE-5-S1	19	Yes	4.0	
W06NE-5U-S2	21	No	4.0	
UW06NE-6	NA	NA	NA	Photo W
UW06NE-7	NA	NA	NA	Photo SW
UW06NE-8	NA	NA	NA	
UW06NE-9	NA	NA	NA	
UW06NE-10	NA	NA	NA	
UW06NE-11	NA	NA	NA	
W06NW-1a	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-1b	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-2	NA	NA	NA	Photo of treatment pond, no soil core
W06NW-3U-S1	24	No		
W06NW-3-S2	23	Yes	12.2	Photo SE
W06NW-3-S3	21	Yes	12.2	Photo SW
W06NW-3U-S4	22	No		Photo E
W06NW-4-S1	22	Yes	5.0	Photo S
W06NW-4U-S2	23	No	5.0	Photo S
W06NW-5-S1	21	Yes	5.9	Photo SE
W06NW-5U-S2	21	No	5.9	Photo SE
W06NW-6-S1	20	Yes	5.7	
W06NW-6U-S2	20	Yes	5.7	
W06NW-7-S2	NA	NA	NA	Could not fully access field, FQI not possible
W06NW-7U-S1	20	No	NA	Photo SE
UW06NW-8	22	No	NA	Photo NW
UW06NW-9	NA	NA	NA	Photo N
RC-W06	NA	NA	NA	No field form, not visited

NA = not applicable



Site: Inaugural South Suburban Airport

Locale: W06NE1

HELGRO

PHAARU

SALINT

SALNIG

Date: August 27, 2008 30 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE1.inv

2 Helianthus grosseserratus

0 PHALARIS ARUNDINACEA

1 Salix interior

4 Salix nigra

FLORIST	FIC QUALITY DATA	Native	9	90.0%	Adven	tive 1	10.0%
9 NA	ATIVE SPECIES	Tree	1	10.0%	Tree	0	0.0%
10 7	Total Species	Shrub	2	20.0%	Shrub	0	0.0%
2.3 NA	ATIVE MEAN C	W-Vine	0	0.0%	W-Vin	e 0	0.0%
2.1 7	N/Adventives	H-Vine	0	0.0%	H-Vin	e 0	0.0%
7.0 NA	ATIVE FQI	P-Forb	5	50.0%	P-For	b 0	0.0%
6.6	N/Adventives	B-Forb	0	0.0%	B-For	b 0	0.0%
-1.7 NA	ATIVE MEAN W	A-Forb	0	0.0%	A-For	b 0	0.0%
-1.9 V	N/Adventives	P-Grass	0	0.0%	P-Gra	ss 1	10.0%
AVG: Fa	ac. Wetland (-)	A-Grass	0	0.0%	A-Gra	ss 0	0.0%
		P-Sedge	0	0.0%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	1	10.0%			
ACRONYM	C SCIENTIFIC NAME			V	WETNESS	PHYSIOGNOMY	COMMON NAME
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	O Asclepias syriaca			5	5 UPL	Nt P-Forb	COMMON MILKWEED
CONSEP	1 Convolvulus sepium			() FAC	Nt P-Forb	HEDGE BINDWEED
CORSTO	6 Cornus stolonifera			-3	B FACW	Nt Shrub	RED-OSIER DOGWOOD
EQUARV	O Equisetum arvense			() FAC	Cryptogam	HORSETAIL
GALOBT	5 Galium obtusum			- 4	l FACW+	Nt P-Forb	WILD MADDER

-2 FACW-

-4 FACW+

-5 OBL

-5 OBL

Nt P-Forb

Nt Shrub

Nt Tree

SAWTOOTH SUNFLOWER

SANDBAR WILLOW

BLACK WILLOW

Ad P-Grass REED CANARY GRASS

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/27/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM X Yes Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NE-1 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tiled grassed drainageway. VEGETATION Dominant Species (50/20 Rule) % Cover Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> Carex cristatella FACW+ **HERB** Asclepias syriaca UPL **HERB** 8. Setaria glauca HERB 30 FAC 9. 3. Convolvulus sepium FAC **HERB** 10 10. --Festuca elation UPL **HERB** 20 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Hydrophytic vegetation is dominant only in the very center of the drainageway. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Tiled drainageway NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics oxidized rhizospheres 10YR 0 8 3/1 NA NA NΑ NA silty clay loam, moist, blocky 8 20 В 10YR 4/1 10YR 5/6 common distinct clay, moist, very firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface X (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/27/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-1 Yes X No Is The Area A Potential Problem Area? Plot ID: S1 Yes (If yes, define below.) Remarks: Plot at edge of tiled grassed waterway. Most species present not wet. photos 631,632, VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover **Bromus inermis** UPL **HERB** 95 7. 2. Pastinaca sativa UPL **HERB** 5 8. 3. --9. --4. __ 10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Center of drainageway has narrow defined channel. Agricultural drainage tile is funtioning. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No X Yes Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 8 Α 10YR 4/2 NA NA NA NA silty loam w/ sand, dry, friable 8 21 A2 10YR 4/2 - 4/4 NA NA clay, moist, friable NΑ NA Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral 1Indicators of hydrophytic vegetation and (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes **X** No Hydric Soils Present? Yes **X** No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? No Yes X No Remarks: This plot is not located in a wetland.

Site: Inaugural South Suburban Airport
Locale: W06NE2
Date: August 29, 2008 30 minutes
By: AECOM: T. Radke; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE2.inv

FLOR	ISTIC QUALITY DATA	Native	4	50.0%	Advent	ive 4	50.0%
4	NATIVE SPECIES	Tree	1	12.5%	Tree	0	0.0%
8	Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.3	NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.1	W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.5	NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.4	W/Adventives	B-Forb	0	0.0%	B-Forb	1	12.5%
-0.7	NATIVE MEAN W	A-Forb	3	37.5%	A-Forb	1	12.5%
0.1	W/Adventives	P-Grass	0	0.0%	P-Gras	s 1	12.5%
AVG:	Faculative (+)	A-Grass	0	0.0%	A-Gras	s 1	12.5%
		P-Sedge	0	0.0%	P-Sedg	e 0	0.0%
		A-Sedge	0	0.0%	A-Sedg	e 0	0.0%
		Cryptogam	0	0.0%			
CRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON
CENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELD

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AMBARE	O Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
PASSAT	O PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/29/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-2 Yes Is The Area A Potential Problem Area? X Yes Plot ID: S2 Nο (If yes, define below.) Remarks: On floodplain between upland oak woodland and Rock Creek channel. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Ambrosia trifida FAC+ HERB 7. 10 Phalaris arundinacea FACW+ **HERB** 80 8. Helianthus grosseserratus FACW-HFRB 10 3. 9. Chenopodium album FAC-HERB 2 10. __ Fraxinus pennsylvanica **FACW** Shrub 10 11. 5. FACW-Acer negundo Shrub 20 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Landscape position at edge of creek. NRCS Slide Review SOILS Map Unit Name: Pella clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? Typic Endoaquolls X Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. few fe-mn nodules mottles become prom lower 0 19 Α 10YR 3/1 10YR common distinct Dry, friable, silty clay loam 10YR 5/6 common prominent fe-mn nodules 19 27 B2 10YR 4/1 7.5YR 6/8 common prominent Dry, friable, silty clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/29/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-2 Yes Is The Area A Potential Problem Area? X Yes Plot ID: S1 Nο (If yes, define below.) Remarks: On floodplain between upland oak woodland and Rock Creek channel. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Ambrosia trifida FAC+ HERB Ambrosia artemisiifolia **FACU HERB** 55 8. Setaria faberi FACU+ **HERB** 3. 75 9. Chenopodium album FAC-**HERB** 20 10. __ 5. Bidens frondosa **FACW HERB** 15 11. Pastinaca sativa UPI HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Pella clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. dry, friable silty clay loam 0 8 Α 10vr 2.5/1 NA NA NA few fe-mn nodules 8 23 ВА 10yr 3/1 10YR 5/6 few distinct dry, friable silty clay loam 23 27 10YR 7.5YR B2 3/1 6/8 common prominent dry, friable silty clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil profile did not meet depth criteria for F6 or F8. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport Locale: W06NE3

Date: August 26, 2008 30 hours
By: AECOM; T. Radke; R. Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE3.inv

FLORIST	IC QUALITY DATA	Native	9	64.3%	Adven	tive	e 5	35.7%
9 NA	TIVE SPECIES	Tree	0	0.0%	Tree		0	0.0%
14 T	otal Species	Shrub	2	14.3%	Shrub		0	0.0%
3.3 NA	TIVE MEAN C	W-Vine	0	0.0%	W-Vin	е	0	0.0%
2.1 W	/Adventives	H-Vine	0	0.0%	H-Vin	е	0	0.0%
10.0 NA	TIVE FQI	P-Forb	4	28.6%	P-For	b	1	7.1%
8.0 W	/Adventives	B-Forb	0	0.0%	B-For	b	1	7.1%
-2.6 NA	TIVE MEAN W	A-Forb	0	0.0%	A-For	b	0	0.0%
-1.7 W	/Adventives	P-Grass	1	7.1%	P-Gra	SS	3	21.4%
AVG: Fa	c. Wetland	A-Grass	0	0.0%	A-Gra	SS	0	0.0%
		P-Sedge	2	14.3%	P-Sed	ge	0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge	0	0.0%
		Cryptogam	0	0.0%				
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHY	SIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad	P-Grass	REDTOP
ASTSIS	3 Aster simplex			-5	OBL	Nt	P-Forb	PANICLED ASTER
CORSTO	6 Cornus stolonifera			-3	FACW	Nt	Shrub	RED-OSIER DOGWOOD
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad	B-Forb	QUEEN ANNE'S LACE
FESELA	O FESTUCA ELATIOR			2	FACU+	Ad	P-Grass	TALL FESCUE
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt	P-Forb	SAWTOOTH SUNFLOWER
PHAARU	O PHALARIS ARUNDINACE	CA		-4	FACW+	Ad	P-Grass	REED CANARY GRASS
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad	P-Forb	CURLY DOCK
SALINT	1 Salix interior			-5	OBL	Nt	Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens			-5	OBL	Nt	P-Sedge	DARK GREEN RUSH
SCIFLU	4 Scirpus fluviatilis	3		-5	OBL	Nt	P-Sedge	RIVER BULRUSH
SILTER	5 Silphium terebinthi	naceum		3	FACU	Nt	P-Forb	PRAIRIE DOCK
SOLALT	1 Solidago altissima			3	FACU	Nt	P-Forb	TALL GOLDENROD
SPAPEC	4 Spartina pectinata			-4	FACW+	Nt	P-Grass	PRAIRIE CORD GRASS

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/26/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-3 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway is wet meadow with open channel in middle VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 7. Helianthus grosseserratus FACW-HERB 15 8. 3. Scirpus fluviatilis **HFRB** 10 OBI 9. --Spartina pectinata FACW+ HERB 10 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophyic vegetation is dominant. The vegetation community is strongly hydrophytic **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Narrow open channel in center of wetland area SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Abundance/Contrast Depth Depth Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics. 0 10 Α 10YR 3/1 10YR few faint damp, friable, silty clay loam 10YR 5/6 many distinct Gley1 2.5/N common distinct 10YR 10YR 10 21 A2 3/1 distinct moist, friable silty clay many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. While F6 depth and density/contrast criteria are not strictly met, the dark matrix color likely masks the redox features WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is within a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/26/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-3 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Soil core is at edge of drainageway photos 627-629 VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 65 Daucus carota UPL **HERB** 15 8. Trifolium pratense FACU+ 3. HFRB 10 9. Festuca elatior UPL HERB 10 10. --__ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR damp, rooty, silty clay loam 0 8 Α 4/3 NA NA NA NA 8 12 A2 10YR 4/2 10YR 5/6 common faint Moist, rooty, silty clay 12 10YR 24 В 4/2 10YR 5/6 many distinct Moist, rooty, clay Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. The matirx color of the top layers do not meet A11, A12 or F3 criteria Mottle percent increases w/depth. WETLAND DETERMINATION X No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No Yes X No Remarks: This plot in not in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 08/27/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: . W06NE-4 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Grassy, shruby upland on a slope between two cultivated fields One photo taken VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Prunus serotina **FACU** TREE 7. Solidago rigida FACU-**HERB** --8. 3. Solidago altissima FACU **HERB** --9. --Bromus inermis UPL **HERB** 10. UPL **HERB** 5. Daucus carota 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Horizon (Munsell Moist) (Munsell Moist): and other soil characteristics. Depth Abundance/Contrast Indicators for Problematic Hydric Soils¹: Hydric Soil Indicators²: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (F1) Loamy Mucky Mineral (A4) Hydrogen Sulfide ¹Indicators of hydrophytic vegetation and (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core taken* Yes No Yes Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? X No Yes Yes Remarks: This plot is not located in a wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

Site: Inaugural South Suburban Airport Locale: W06NE5

Date: August 27, 2008 30 minutes
By: AECOM: T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NE5.inv

FLORISTIC QUALITY DATA	Native	1	25.0%	Adventive	3	75.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
4.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
4.0 NATIVE FQI	P-Forb	1	25.0%	P-Forb	0	0.0%
2.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-5.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	3	75.0%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Obl. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
POLCOC	4 Polygonum coccineum	-5 OBL	Nt P-Forb	WATER HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/27/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Sparsely vegetated area in soybean field with evidence of inudation and crop failure photos 0638, 0639 **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Abutilon theophrasti FACU-HERB Glycine max UPL **HERB** 25 8. Polygonum persicaria FACW **HFRB** 9. 3. 5 Polygonum coccineum OBL **HERB** 25 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. Circumstances are not normal. It is expected that wetland vegetation would be dominant under normal circumstances **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Area is mostly bare due to failed crop and signs of extended ponding such as soil cracks SOILS Map Unit Name: **Peotone silty clay loam** Series Drainage Class: Very poorly drained Taxonomy (Subgroup): Cumulic Vertic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics ΑP 10YR 0 3/1 NA NA NΑ NA silty loam, moist, blocky 12 10YR 2/1 10YR 5/6 faint silty clay loam, moist, firm A1 few 10YR 10YR 12 19 A2 2/1 5/6 common faint silty clay loam, moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Soil profile does not quite meet hydric criterion for contrast/abundance, but dark matrix hides redox. Hydrophytic vegetation and wetland hydrology are present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is within a wetland Normal circumstances are not present due to cultivation. Soybeans are stressed and wet veg is present. Under normal circumstances, it is expected that wetland vegetation would be dominant.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/27/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Successful crop in soybean field Plot is located uphill of wetland plot. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Glycine max 2. 8. 3. --9. 4. --__ 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Successful crop and no other vegetation present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 ΑP 10YR NA NA NA NA silty loam, dry, friable 10YR 4/3 transition layer 9 Α1 10YR 3/2 NA NA NA NA silty clay l<u>oam, dry, friable</u> bright concretions 10YR 5/8 9 10YR 11 A2 4/3 NA NA NΑ NΑ clay loam, dry, firm 10YR 4/3 10YR 21 В 5/6 distinct clay loam, dry, firm 11 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soil not present **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Remarks: This plot is not in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/29/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Teri Radke #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NE-6 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Grassed waterway in cultivated field upland-grassed waterway. photo 646 facing w VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name Stratum % Cover Bromus inermis UPL **HERB** 7. 80 Solidago nemoralis UPL **HERB** 10 8. 3. Solidago altissima **FACU** HERB 10 9. 4. 10. 5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. One or two wet species amid dominant upl species, such as small patches of Helianthus grosseserratus. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Tiled grassed waterway between cultivated fields NRCS Slide Review SOILS Map Unit Name: Pella/Ozaukee boundary Series Drainage Class: Poorly drained/Moderately well drained Taxonomy (Subgroup): Typic Endoaquolls/Oxyaquic Hapluc Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soil/non-hydric boundary. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* * No Hydrophytic Vegetation Present? Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/27/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X No Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-7 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Soybean field Photo 645 VEGETATION Dominant Species (50/20 Rule) Ind.Status Species Name Ind. Status % Cover Species Name Stratum % Cover Stratum UPL **HERB** 100 7. Glycine max 2. 8. 3. ----9. 4. --__ 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Successful soybean crop with no signs of failure and no other species present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* **X** No Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? **X** No Yes X No Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/27/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-8 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Soybean field with successful crop VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum UPL **HERB** 100 7. Glycine max 2. 8. 3. --9. 4. --__ 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Successful soybean crop on high ground with no other vegetation present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* Nο Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-9 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field with successful crop VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum UPL **HERB** 100 7. Zea mays 2. 8. 3. ----9. 4. --__ 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Successful corn crop on rise with no other vegetation present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* * No Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes **X** No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-10 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field with successful crop. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum UPL **HERB** 100 7. Zea mays 2. 8. 3. ----9. 4. --__ 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Successful corn crop on a rise with no other vegetation present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core taken* Oxyaquic Hapludalfs Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* Nο Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes **X** No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W06NE-11 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field Successful corn crop with no other vegetation present. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum UPL **HERB** 100 7. Zea mays 2. 8. 3. ----9. 4. --__ 10. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Successful corn crop **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* Nο Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/24/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? POW X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NW-1a X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Naturalized, excavated pond for tollway(I-57) rest-area wastewater treatment. This pond is the largest in a series of three. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Salix exigua OBL **SHRUB** Phalaris arundinacea FACW+ **HERB** 8. Fraxinus pennsylvanica **FACW** TREE 3. --9. --Cornus stolonifera **FACW SHRUB** --10. __ 5. Populus deltoides FAC+ **TREE** 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. No cover percentages recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) X Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: <12 (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 0 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **0** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Water Series Drainage Class: . Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core* X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Boundary of two mapped units--upland Ozaukee silt loam and hydric Ashkum silty clay loam. *Soils under continuous inundation. Pond is one in series of three WETLAND DETERMINATION Nο Hydric Soils Present? No soil core taken* * Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. * No soil core taken in inundated area.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: POW Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NW-1b X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Second in series of three naturalized, excavated ponds for tollway (I-57) wastewater treatment. VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Phragmites australis FACW+ **HERB** Phalaris arundinacea FACW+ **HERB** 8. Fraxinus pennsylvanica **FACW** TREE 3. --9. --Typha latifolia OBL **HERB** --10. __ 5. Echinochloa crusgalli **FACW HERB** 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. No cover percentages recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) X Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: <12 (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 0 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **0** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Water Series Drainage Class: . Taxonomy (Subgroup): Field Observations Confirm Mapped Type?* X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: *No soil core collected. Soils under continuous inundation. Boundary of two soil units---upland Ozaukee silt loam and hydric Ashkum silty clay loam. WETLAND DETERMINATION Nο Hydric Soils Present? No soil core taken* * Yes Hydrophytic Vegetation Present? X Yes Nο Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland. *No soil core taken in inundated area.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? POW X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NW-2 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Naturalized, excavated pond for tollway(I-57) rest-area wastewater treatment. This pond is the smallest of the three. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Polygonum hydropiperoides OBL **HERB** Phalaris arundinacea FACW+ **HERB** 8. Scirpus validus **HERB** 3. OBL --9. --Carex torreyi ΝI **HERB** --10. __ 5. Echinochloa crusgalli **FACW HERB** 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. No cover percentages recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) X Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: <12 (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 0 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **0** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Water Series Drainage Class: . Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core* X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: *Soils under continuous inundation. Pond is one in series of three. Boundary of two soil units--upland unit Ozaukee silt loam and hydric Ashkum silty clay loam. WETLAND DETERMINATION Nο Hydric Soils Present? No soil core taken* * Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. * No soil core taken in inundated area.

Site: Inaugural South Suburban Airport Locale: W06NW3

Date: September 23, 2008 1 hours
By: AECOM; S. Johnson; T. Schultz
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW3.inv

21 NF 28 7 2.7 NF 2.0 V 12.2 NF 10.6 V -0.5 NF 0.1 V	TIC QUALITY DATA ATIVE SPECIES Fotal Species ATIVE MEAN C M/Adventives ATIVE FQI M/Adventives ATIVE MEAN W M/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge	21 4 1 2 0 8 1 4 1 0 0	75.0% 14.3% 3.6% 7.1% 0.0% 28.6% 3.6% 14.3% 3.6% 0.0% 0.0%	Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	2 e 0 0 e 0 b 1 b 0 b 1 ss 2 ss 0	3.6% 7.1% 0.0% 0.0% 3.6% 0.0% 3.6% 7.1% 0.0%
ACRONYM	C SCIENTIFIC NAME	Cryptogam	0	0.0%	WETNESS	DHAGIUCNU	MY COMMON NAME
ACENEG	0 Acer negundo				FACW-		
ACESAI	0 Acer saccharinum					Nt Tree	
ACESAU	3 Acer saccharum				FACU		
APOCAN	4 Apocynum cannabinum	n			FAC	Nt P-Forb	
BIDCON	5 Bidens connata	••			OBL	Nt A-Forb	
BROINE	O BROMUS INERMIS				UPL		s HUNGARIAN BROME
CHEALB	O CHENOPODIUM ALBUM				FAC-	Ad A-Forb	
EUPRUG	4 Eupatorium rugosum			5	UPL	Nt P-Forb	
FRAPES	1 Fraxinus pennsylva	nica subintege	errima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GLEHED	0 GLECHOMA HEDERACEA			3	FACU	Ad P-Forb	CREEPING CHARLIE
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Gras	s FOWL MANNA GRASS
HACVIR	O Hackelia virginiana	a		1	FAC-	Nt B-Forb	STICKSEED
IMPCAP	3 Impatiens capensis			-3	FACW	Nt A-Forb	ORANGE JEWELWEED
ISOBIT	8 Isopyrum biternatum	n		5	UPL	Nt P-Forb	FALSE RUE ANEMONE
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACI	EΑ		-4	FACW+	Ad P-Gras	s REED CANARY GRASS
POLHYR	2 Polygonum hydropipe	er		-3	FACW	Nt A-Forb	WATER PEPPER
POLHYS	7 Polygonum hydropipe	eroides		-5	OBL	Nt P-Forb	MILD WATER PEPPER
POLPEN	0 Polygonum pensylvan	nicum		-4	FACW+	Nt A-Forb	PINKWEED
RHACAT	O RHAMNUS CATHARTICA			3	FACU	Ad Shrub	COMMON BUCKTHORN
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	4 Solidago gigantea			-3	FACW	Nt P-Forb	LATE GOLDENROD

VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-3 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Area is associated with an unnamed tributary to Rock Creek. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name **Stratum** % Cover **Bromus inermis** UPL **HERB** Solanum dulcamara FAC **HERB** 5 8. 2. Geum canadense FAC **HFRB** 5 3. 9. Vitis riparia FACW-TREE 5 10. 5. Fraxinus pennsylvanica **FACW TREE** 35 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10 Aр 10YR NΑ NA NA NA silty clay loam, moist, friable 5YR 4/6 commor faint 10 22 10YR 3/1 5YR 4/4 common faint silt loam, moist, very friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/24/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? PFO; Stream X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-3 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Wooded wetland area is associated with an unnamed tributary to Rock Creek. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Acer saccharum **FACU TREE** Prunus serotina FACU TREE Acer saccharinum **FACW TREE** 8. Geum canadense FAC **HERB** 20 2. 5 SHRUB Fraxinus pennsylvanica **FACW TREE** 25 9. Toxicodendron radicans FAC+ 5 3. Salix fragilis FAC+ TREE 10. Rubus occidentalis UPL **SHRUB** 5 3 Acer negundo FACW-**SHRUB** 10 11. Viola sororia FAC-HERB 5 Rosa multiflora **SHRUB** FACW HERB FACU Polygonum persicaria 15 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 60% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available X Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 18 Ap 10YR 3/2 NA NA NA NA silt loam, moist, friable 18 23 10YR NA NA NA NA silt loam, moist, friable 3/1 Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses X Other (Explain in Remarks) (A3) Black Histic (S6) Stripped Matrix (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Sediment deposition layer on floodplain terrace. Plot has dominance of wetland vegetation and strong hydrology indicators. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes Nο Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/24/08 County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: PFO; Stream X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-3 Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Wooded wetland area is associated with an unnamed tributary to Rock Creek. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Impatiens capensis **FACW HERB** 7. Phytolacca americana FAC-HERB 3 Phalaris arundinacea FACW+ **HERB** 40 8. Hackelia virginiana FAC-**HERB** 3 2. Solanum dulcamara **HFRB** 9. Bromus inermis UPL **HERB** 30 3. FAC 5 Cirsium arvense **FACU HERB** 3 10. Fraxinus pennsylvanica **FACW TREE** 40 11. 5. Polygonum hydropiperoides OBI **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Matrix Color Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contras and other soil characteristics 10YR 0 Ap 3/2 NA NA NA NA silty clay loam, moist, friable 21 10YR 3/1 10YR 5/6 few distinct silty clay loam, moist, friable Αp Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Sediment deposition layer on floodplain terrace. Plot has dominance of wetland vegetation and multiple hydrology indicators. **WETLAND DETERMINATION** Nο Hydric Soils Present? **X** Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W06NW-3 X Yes No Is The Area A Potential Problem Area? X No Plot ID: **S4** Yes (If yes, define below.) Remarks: Area is associated with an unnamed tributary to Rock Creek. Area may have experienced grading during the construction of detention basins nearby. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL HERB 7. Trifolium pratense FACU+ HERB 10 8. Plantago lanceolata FAC **HFRB** --3. 10 9. --Fraxinus pennsylvanica **FACW TREE** 10 10. --11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Ар 2/2 NA NA NA NA silt loam, moist, friable 6 13 Α 10YR 3/1 NA NA NA NA silt loam, moist, friable 10YR 10YR distinct 13 22 В 4/3 5/8 common silty clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soil is not present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport Locale: W06NW4 Date: September 24, 2008 30 minutes

By: AECOM: S. Johnson; T. Schultz

File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW4.inv

FLORISTIC QUALITY DATA 9 NATIVE SPECIES 16 Total Species 1.7 NATIVE MEAN C 0.9 W/Adventives 5.0 NATIVE FQI 3.8 W/Adventives -2.4 NATIVE MEAN W -0.7 W/Adventives AVG: Fac. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass	9 1 0 0 0 3 0 4 0	56.3% 6.3% 0.0% 0.0% 0.0% 18.8% 0.0% 25.0% 0.0% 6.3%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra	e 0 e 0 b 3 b 1 b 0 ss 2	43.8% 6.3% 0.0% 0.0% 18.8% 6.3% 0.0% 12.5% 0.0%
	P-Sedge A-Sedge Cryptogam	0 0 0	0.0% 0.0% 0.0%	P-Sed A-Sed	ge 0 ge 0	0.0% 0.0%
ACRONYM C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI 0 Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS 3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCON 5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CIRVUL 0 CIRSIUM VULGARE			4	FACU-	Ad B-Forb	BULL THISTLE
ECHCRU 0 Echinochloa crusga	lli		-3	FACW	Nt A-Grass	BARNYARD GRASS
FESELA 0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES 1 Fraxinus pennsylva	nica subintege	errima	0	FAC	Nt Tree	GREEN ASH
JUNTEN 0 Juncus tenuis			2	[FACU+]	Nt P-Forb	PATH RUSH
JUNTOR 4 Juncus torreyi			-3	FACW	Nt P-Forb	TORREY'S RUSH
MORALB 0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PLAMAJ 0 PLANTAGO MAJOR			-1	FAC+	Ad P-Forb	COMMON PLANTAIN
POAPRA 0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLHYR 2 Polygonum hydropip	er		-3	FACW	Nt A-Forb	WATER PEPPER
POLPEN 0 Polygonum pensylva	nicum		-4	FACW+	Nt A-Forb	PINKWEED
TAROFF 0 TARAXACUM OFFICINA	LE		3	FACU	Ad P-Forb	COMMON DANDELION
TRIREP 0 TRIFOLIUM REPENS			2	FACU+	Ad P-Forb	WHITE CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: PFO;Stream Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W06NW-4 Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Eroded and compacted pasture; Wetland area adjoins an unnamed tributary to Rock Creek--drainage altered. Highly eroded stream banks at this plot. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Juncus tenuis HERB Festuca elation FACU+ **HERB** 15 FAC Taraxacum officinale **FACU HERB** 5 8. Poa pratensis FAC-**HERB** 40 2. Trifolium repens FACU+ **HFRB** 10 9. **HFRB** 5 3. Plantago major FAC+ Polygonum pensylvanicum FACW+ HERB 10 10. Polygonum hydropiper OBL **HERB** 5 11. 5. FACU Cirsium arvense **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Not normal circumstances due to conversion to pasture. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Aр 3/2 NA NA NA NA silt loam, moist, friable 9 10YR 3/2 10YR 5/8 common distinct silt loam, moist, friable Αp 9 22 10YR 5/1 NA NA NA NA clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydric Soils Present? X Yes X No Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland.

This area would likely support dominant hydrophytic vegetation under normal circumstances.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-4 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Area is associated with an unnamed tributary to Rock Creek. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> Taraxacum officinale FACU HERB 7. Gleditsia triacanthos FAC **SHRUB** 5 Trifolium repens FACU+ **HERB** 8. Fraxinus pennsylvanica **FACW** TREE 5 2. 5 Festuca elation HERB FACU+ 25 9. FACW-**TRFF** 3. Ulmus americana 1 Poa pratensis FAC-**HERB** 25 10. Acer saccharinum **FACW** TREE 1 Rosa multiflora **FACU SHRUB** 5 11. 5. Morus alba FAC TREE Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Matrix Color Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 13 Ap 2/1 NA NA NA NA silt loam, moist, friable 13 23 10YR 3/1 10YR 5/6 few faint silt loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Soil profile matches Ashkum description, but hydric soil indicators are not present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport
Locale: W06NW5a and b
Date: September 24, 2008 30 minutes
By: AECOM: S. Johnson; T. Schultz
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW5ab.inv

	IC QUALITY DATA	Native	14	82.4%	Adven		17.6%
	TIVE SPECIES	Tree Shrub	4 1	23.5% 5.9%	Tree Shrub	0	0.0%
	otal Species TIVE MEAN C	W-Vine	3	17.6%	W-Vin		0.0%
		H-Vine	0	0.0%	W-Vin H-Vin		0.0%
	TIVE FOI	H-Vine P-Forb	4	23.5%	P-For		0.0%
	/Adventives	B-Forb	0	0.0%	B-For		0.0%
	TIVE MEAN W	A-Forb	1	5.9%	A-For		0.0%
		P-Grass	0	0.0%	P-Gra		17.6%
	culative (+)	A-Grass	1	5.9%	A-Gra		0.0%
1100. 14	caractive (1)	P-Sedge	0	0.0%	P-Sed		0.0%
		A-Sedge	0	0.0%	A-Sed	J -	0.0%
		Cryptogam	0	0.0%	A bca	gc 0	0.00
		or ypeogam	0	0.00			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTPIL	0 Aster pilosus			2	FACU+	Nt P-Forb	HAIRY ASTER
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DACGLO	0 DACTYLIS GLOMERATA			3	FACU	Ad P-Grass	ORCHARD GRASS
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvar	nica subinteg	errima	0	FAC	Nt Tree	GREEN ASH
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PARQUI	2 Parthenocissus quir	nquefolia		1	FAC-	Nt W-Vine	VIRGINIA CREEPER
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
VERHAS	4 Verbena hastata			-4	FACW+	Nt P-Forb	BLUE VERVAIN
VITRIP	2 Vitis riparia			-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/24/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Drainage area along property boundary. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Species Name Ind. Status Species Name <u>Stratum</u> Helianthus grosseserratus FACW-**HERB** 35 Vitis riparia FACW-VINE 5 Phalaris arundinacea FACW+ HERB 20 8. Fraxinus pennsylvanica **FACW** TREE 30 2. Festuca elatior HERB 9. FACU+ 20 3. --Pastinaca sativa UPL **HERB** 5 10. --Solidago altissima **FACU HERB** 11. 5. FACU Cirsium arvense **HFRB** Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: **Bottom** Matrix Color **Mottle Colors** Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics mucky modified 10YR 0 Ap 2/1 NA NA NA NA silt loam, moist, friable 13 10YR 4/2 10YR 5/6 faint sandy loam, moist, friable Α few 10YR 10YR sandy clay, moist, friable 13 23 В 4/3 5/8 common distinct Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hvdric Soils Present? X Yes X Yes Nο Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No

Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/24/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Eroded, drainage area along property boundary. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Ind. Status Species Name Species Name <u>Stratum</u> Daucus carota UPL **HERB** 7. Setaria faberi FACU+ HERB 20 8. Poa pratensis FAC-HERB 30 ----3. 9. Plantago major FAC+ **HERB** 10 10. __ --5. Trifolium pratense FACU+ **HERB** 10 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 В 10YR 4/2 NA NA NA NA silty clay loam, moist, friable 5 8 2B 10YR 4/3 7.5YR 4/6 distinct sandy clay loam, moist, friable few 8 2B 10YR 10YR 5/8 21 5/4 few distinct sandy clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil matches Beecher profile description with eroded A horizon. **WETLAND DETERMINATION** Hydric Soils Present? **X** No Hydrophytic Vegetation Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W06NW6

Date: September 25, 2008 1 hours
By: AECOM: S. Johnson; T.Schultz
File: c:\FQA\studies\SSA\Wetlands2008\Final\W06NW6.inv

10 NA 22 T 1.8 NA 0.8 W 5.7 NA 3.8 W 0.0 NA 1.0 W	IC QUALITY DATA TIVE SPECIES ptal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	10 1 0 0 0 3 1 3 1 1 0 0	45.5% 4.5% 0.0% 0.0% 0.0% 13.6% 4.5% 4.5% 4.5% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra P-Sed A-Sed	0 e 0 0 b 2 b 1 b 1 b 4 ss 3 ss 2 ge 0	54.5% 0.0% 0.0% 0.0% 9.1% 4.5% 18.2% 13.6% 9.1% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum			0	FAC	Nt P-Forb	INDIAN HEMP
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Forb	HEDGE BINDWEED
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvan	ica subintege	rrima	0	FAC	Nt Tree	GREEN ASH
GAUBIB	2 Gaura biennis			4	FACU-	Nt B-Forb	BIENNIAL GAURA
GLYNMX	0 GLYCINE MAX			5	UPL	Ad A-Forb	SOY BEAN
MEDLUP	O MEDICAGO LUPULINA			1	FAC-	Ad A-Forb	BLACK MEDICK
PANDII	0 Panicum dichotomifl	orum		-2	FACW-	Nt A-Grass	KNEE GRASS
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPER	0 POLYGONUM PERSICARI	A		1	[FAC-]	Ad A-Forb	LADY'S THUMB
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SONOLE	O SONCHUS OLERACEUS			5	[UPL]	Ad A-Forb	STORE-FRONT SOW THISTLE
TAROFF	0 TARAXACUM OFFICINAL	E		3	FACU	Ad P-Forb	COMMON DANDELION
TRIREP	0 TRIFOLIUM REPENS			2	FACU+	Ad P-Forb	WHITE CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM X Yes Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NW-6 Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tile at roadway drains into this fallow area in an agricultural field. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Glycine max **HERB** Apocynum cannabinum HERB UPL FAC 3 Trifolium repens FACU+ **HERB** 5 8. Fraxinus pennsylvanica **FACW SHRUB** 1 Daucus carota UPL 9. **HFRB** 2 3. Echinochloa crusgalli **FACW** HERB 1 10. Taraxacum officinale **FACU HERB** 4 11. Panicum dichotomiflorum FACW-HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. Sparse vegetation along drainage **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test 0** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Saturated soils and landscape position SOILS Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Map Unit Name: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Mottle Colors Тор Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics <u>10</u>YR 0 Aр 3/2 NA NΑ NA NA clay loam, moist, friable 20 10YR 5/2 10YR 5/8 common prominent sandy clay, moist, friable Α Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon X (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Soil profile matches mapped soil description and hydric indicators WETLAND DETERMINATION X No Hydric Soils Present? **X** Yes Hydrophytic Vegetation Present? Nο X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? No X Yes No Remarks: This plot is located in a wetland. This plot meets the soil and hydrology criteria, but not the vegetation criterion.

Hydrophytic vegetation will likely become established if the area is not disturbed (I.e., farmed wetland).

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: W06NW-6 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: This plot is located in an agricultural field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> UPL **HERB** 70 Glycine max 2. 8. 3. --9. 4. --10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 Ар 10YR 3/2 NA NA NA NA clay loam, moist, friable 22 10YR 4/3 10YR 5/8 common distinct clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/24/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W06NW-7 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tributary of Rock Creek is highly eroded stream corridor in pasture. No access to wetland due to presence of bull. No vegetation/soil core recorded. Area visible from road and adjacent farmyard. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name Stratum % Cover Fraxinus pennsylvanica **FACW** TREE Acer negundo FACW-TREE 8. polygonum sp. **HFRB** 3. unknown 9. Echinochloa crusgalli **FACW** HERB --10. Poa pratensis FAC-**HERB** 11. 5. Festuca elatior UPI **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is present. *Cover percentages not recorded due to lack of access to wetland area. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Hydrology is based upon running water in stream and landscape position. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core taken* Taxonomy (Subgroup): Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils mapped. *Soil core not taken due to presence of bull in pasture--no access. WETLAND DETERMINATION Hydric Soils Present? No soil core taken* Yes Nο Hydrophytic Vegetation Present? X Yes Nο Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland. *No access to wetland area due to presence of bull in pasture. Wetland vegetation and hydrology visible only below OHWM of the stream channel.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Area is associated with drain tile outlet and highly eroded tributary/stream. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Rudbeckia triloba Taraxacum officinale FACU **HERB** FAC-**HERB** 5 Daucus carota UPL **HERB** 5 8. Fraxinus pennsylvanica **FACW TREE** 5 Plantago lanceolata **HFRB** 3. FAC 10 9. FAC-**HERB** 35 Poa pratensis **Festuca elatior** FACU+ HERB 15 10. Oenothera biennis FACU **HERB** 11. 5. 1 Trifolium repens FACU+ **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review and associated tributary of RC SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 8 Aр 3/2 NA NA NA silty clay loam, moist, friable 8 16 10YR 5/6 NA NA NA NA silty clay, moist, friable Α 10YR 10YR distinct 16 22 В 4/3 5/8 common clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. Land slopes uphill away from channel in center of field. **WETLAND DETERMINATION** X No Hvdric Soils Present? X No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois **X** No Do Normal Circumstances Exist On The Site? Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-8 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Eroded agricultural field (soybeans) NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Glycene max UPL **HERB** 100 7. 8. 2. --3. 9. --4. ----10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Successful soybean crop. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) X Other (Explain in Remarks) Remarks: Scour marks show where water flows toward the creek during rain events. No evidence that inundation occurs at site. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Matrix Color Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Ap 2/2 NA NA NA NA silty clay loam, moist, friable 12 10YR 3/2 10YR 5/6 few distinct silty clay loam, moist, friable Α 12 10YR 6/1 10YR 5/6 22 В common distinct clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION X** No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland. Successful corn crop and insufficient evidence of wetland hydrology

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/25/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X No Community ID: Yes Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W06NW-9 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Soybean field with successful corn crop NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Glycene max UPL **HERB** 100 7. 8. 2. --3. 9. --4. __ --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Successful soybean crop **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? No soil core taken* Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. **WETLAND DETERMINATION X** No Hydric Soils Present? No soil core taken* Nο Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

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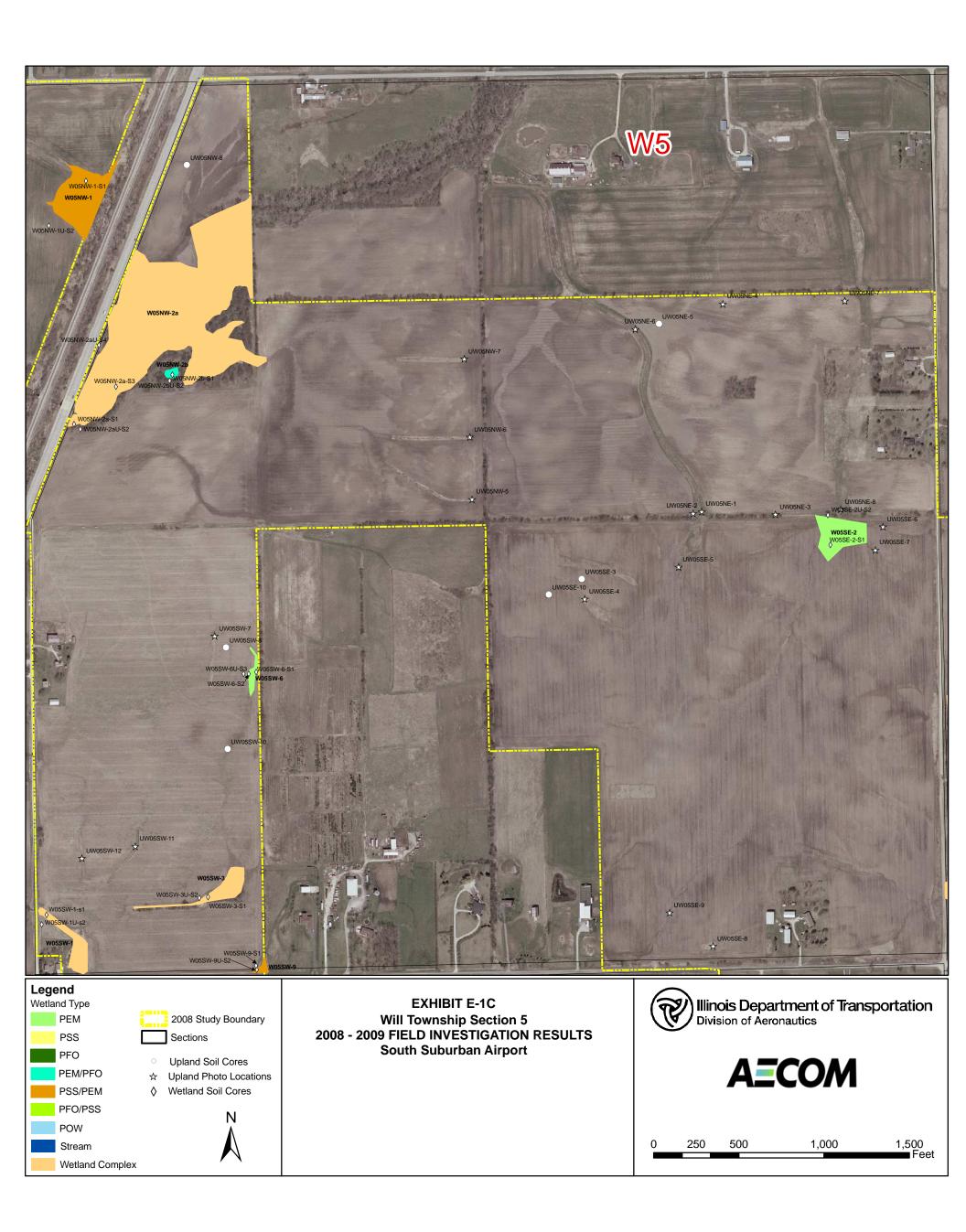
Appendix E Section Will 05

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
UW05NE-1	NA	NA	NA	Photo N
UW05NE-2	NA	NA	NA	Photo W
UW05NE-3	NA	NA	NA	Photo W
UW05NE-4	NA	NA	NA	Photo W
UW05NE-5	20	No	NA	Photo W
UW05NE-6	NA	NA	NA	Photo N
UW05NE-7	NA	NA	NA	Photo W
UW05NE-8	NA	NA	NA	
W05NW-1-S1	22	Yes	17.2	
W05NW-1U-S2	20	Yes	17.2	
W05NW-2a-S1	18	Yes		
W05NW-2aU-S2	18	No	21.1	
W05NW-2a-S3	22	Yes		
W05NW-2aU-S4	0	No		
W05NW-2b-S1	21	Yes	6.3	
W05NW-2bU-S2	21	No		DL . (.)A/
UW05NW-5	NA	NA	NA	Photo W
UW05NW-6	NA	NA	NA	Photo W
UW05NW-7 UW05NW-8	NA 12	NA No	NA NA	Photo W
U V V U SIN V V - O	12	INO	INA	<u> </u>
W05SE-2-S1	21	Yes		
W05SE-2U-S2	0	No	0.0	
UW05SE-20-32	20	No	NA	
UW05SE-4	NA	NA	NA	Photo E
UW05SE-5	NA	NA	NA	Photo N
UW05SE-6	NA	NA	NA	1 11010 14
UW05SE-7	NA	NA	NA	
UW05SE-8	NA	NA	NA	
UW05SE-9	NA	NA	NA	
UW05SE-10	10	No	NA	
	-			
W05SW-1-S1	25	Yes	0.0	
W05SW-1U-S2	23	No	9.8	
W05SW-3-S1	21	Yes	40.4	
W05SW-3U-S2	21	No	12.4	
W05SW-6-S1	20	Yes		
W05SW-6-S2	10	Yes	0.0	
W05SW-6U-S3	12	No		
UW05SW-7	NA	NA	NA	Photo S
UW05SW-8	20	No	NA	
W05SW-9-S1	20	Yes	9.0	
W05SW-9U-S2	20	Yes	0.0	

Appendix E Section Will 05

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
UW05SW-10	20	No	NA	
UW05SW-11	NA	NA	NA	
UW05SW-12	NA	NA	NA	

NA = not applicable



DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes Nο Is The Site Significantly Disturbed (Atypical Situation)? W05NE-1 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Probable location of agricultural drainage tile. Photo 611 **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 100 2. 8. 3. --9. 4. ----10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Old field vegetation in the middle of corn field. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes * No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils not mapped. *No wetland vegetation or wetland hydrology, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* * No Yes Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *No wetland vegetation or wetland hydrology, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes Nο Is The Site Significantly Disturbed (Atypical Situation)? X No W05NE-2 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΔ Yes (If yes, define below.) Remarks: Photo 612 VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status **Stratum** % Cover Species Name <u>Stratum</u> % Cover **Bromus inermis** UPL **HERB** 100 2. 8. 3. --9. 4. __ ----10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly Drained Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Wetland vegetation and wetland hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. * No soil core was taken since vegetation and hydrology parameters do not meet wetland criteria.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/25/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland X Yes Nο Community ID: Is The Site Significantly Disturbed (Atypical Situation)? W05NE-3 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΔ Yes (If yes, define below.) Remarks: Photo 624: Hedgerow **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover **Bromus inermis** UPL **HERB** Prunus serotina **FACU TREE** 8. Morus alba TREE 3. FAC --9. --Phleum pratense **FACU HERB** 10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Location is at highpoint along a hedgerow. Dark signature on NRCS aerial actually the shadow of hedgerow SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core was taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes Yes X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria, so no soil core was taken.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson State: Illinois **Tory Schultz** Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? W05NE-4 **X** Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Natural depression on hillside. Agricultural field NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name Stratum % Cover Zea mays UPL HERB 7. Asclepias syriaca UPL **HERB** 8. --2. Setaria faberi FACU+ **HERB** --3. 9. ----Ambrosia artemisiifolia **FACU HERB** 10. __ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant Corn crop with upland weeds. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* No Yes Profile Description: Matrix Color Bottom Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core was taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core taken* No Yes Yes Wetland Hydrology Present? X No Yes X No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in wetland. * Vegetation and hydrology do not meet wetland criteria, so no soil core was taken.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will **Sarah Johnson** State: Illinois Investigator #1: #2: Tory Schultz Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? W05NE-5 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Drainage within ag field; aerial signature of drain tile present NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Zea mays UPL **HERB** 7. Ipomoea hederacea FAC **HERB** 8. 2. Ambrosia trifida **HERB** 3. FAC+ 9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is not dominant. Corn crop with hydrophyic weeds.. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA silty clay loam, dry, v. friable Ap 3/2 NA NA 15 10YR 3/1 NA NA NA NA silt loam, moist, friable 15 10YR 20 В 3/1 10YR 4/6 faint distinct silt loam, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (F1) Loamy Mucky Mineral (A4) Hydrogen Sulfide (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** Hydrophytic Vegetation Present? X No Hydric Soils Present? **X** No Yes **X** No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/26/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Sarah Johnson #2: Tory Schultz Illinois Investigator #1: State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? W05NE-6 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: tile drainage, grassed waterway NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Ind.Status Species Name Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Trifolium repens FACU+ **HERB** 7. Poa pratensis FAC-**HERB** Setaria faberi FACU+ **HERB** 8. Ambrosia artemisiifolia **FACU HERB** Taraxacum officinale FACU **HERB** 3. 9. --Trifolium pratense FACU+ **HERB** --10. --5. Daucus carota UPL **HERB** 11. Ambrosia trifida FAC+ **HERB** 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 13% Remarks: Hydrophytic vegetation not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *No soil core collected because, wetland vegetation and wetland hydrology are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core was taken* No Yes Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and wetland hydrology are not present, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Project/Site: Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Sarah Johnson Illinois Investigator #1: **Tory Schultz** State: Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? W05NE-7 X Yes No Station ID: Is The Area A Potential Problem Area? **X** No Plot ID: NΑ Yes (If yes, define below.) Remarks: natural depression on hilltop, agricultural; field tile probably present NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Zea mays UPL **HERB** Apocynum cannabinum FAC **HERB** 8. Setaria faberi **HERB** 3. FACU+ 9. --Ambrosia artemisiifolia **FACU HERB** --10. ----Ipomoea hederacea FAC **HERB** 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *Wetland vegetation and wetland hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. *No soil core taken, because vegetation and hydrology do not meet wetland criteria.

								DATA FOI ETLAND D etlands Del	ETE						
	ant/Owner:	Inaugural So Illinois Depa Sarah Johnso	rtment o		rtation	Tory Sc	hultz				Date: County: State:	08/26/08 Will Illinois			
Do No Is The	rmal Circum Site Signific	stances Exist O cantly Disturbed ential Problem A	n The Sit I (Atypica				Yes Yes Yes Yes			No No No	Community ID: Station ID: Plot ID:				
	Remarks:	Plot location NRCS Slide Rev			hillside	near tile	d dra	inageway							
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	Setaria fa			FACU+	HERB			9.							
4.		artemisiifolia	,	FACU	HERB			10							
5.	Ipomoea .	hederacea		FAC	HERB			11							
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Percer		nt Species Tha					AC-):	20%							
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HVDI	ROLOGY	Cover percenta	.ges not	recoraea.											
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		Ot. 101 (2000.15		u)				-			in Upper 12 Inch	es			
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	D				(:- \						oot Channels In I	Upper 12 Inches			
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										_Outlot (Exp	idiri iri remano)				
	Remarks:	Wetland hyd	rology is	s not pres	ent.										
		Identified in NI													
SOIL	S														
		Ashkum silty	clay loa	m, 0 to 2	percent	slopes	Serie	s Drainage	Clas	s:	poorly drained	d			
Taxon	omy (Subgro	oup):	Typic E	indoaquoli	s	Field Ob	servat	ions Confirm	n Ma	apped Type?	No soil core c	ollected*	Yes		No
Profile	Description	:													
Top Depth	Bottom Depth	Horizon		rix Color ell Moist):		Colors Il Moist):	Abur	Mottle idance/Conti	rast	ı		sture, consistency, o d other soil character		erial,	
Hydric	Soil Indicat	ors ² :										Indicators for Probl	ematic Hy	dric Soil	5*:
		(A1) Histosol						Sandy Gley		Matrix			(A16) Coas		
		(A2) Histic Epi						Sandy Red					(F12) Iron-		
		(A3) Black His(A4) Hydroger						Stripped Ma Loamy Muc					Other (Expl	ain in Ke	marks)
		(A5) Stratified						Loamy Gley				¹ Indicators of hydro	anhytic voc	otation	and
		(A10) 2 cm Mi						Depleted M				wetland hydrology			anu
		(A11) Deplete		Dark Surfac	-e			Redox Dark				wedana nyarology	must be p	i Cociic.	
		(A12) Thick D					_ ` ' /	Depleted D							
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		(S3) 5 cm Mu					_ (0)	л	_55		554.66.	Version 6.0 (NRCS,			
		Hydric soils a	•										/		
	remarks.	*Wetland vege			v are not	present	so no	soil core col	llect	ed.					
WETI	AND DET	ERMINATIO		, = 0.09	,										
		ation Present?		Yes	Х	No	Hydr	ic Soils Pres	ent?	No soil co	re collected*	,	Yes	-	No
Wetlar	nd Hydrolog	y Present?		Yes	Х	No	Is Th	nis Sampling	Poi	nt Within A	Wetland?		Yes	X	No
	Remarks:	This plot is no *Wetland vege				present,	so no	soil core col	llect	ed.					

Site: Inaugural South Suburban Airport

Locale: W05NW1

Date: August 14, 2008 8 hours

By: AECOM: T.Radke; R. West

File: l:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised

Forms\W05\FQI\W05NW1.inv

43 NA 61 7 2.6 NA 1.9 V 17.2 NA 14.5 V -1.4 NA -0.4 V	TIC QUALITY DATA ATIVE SPECIES Total Species ATIVE MEAN C N/Adventives ATIVE FQI N/Adventives ATIVE MEAN W N/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	43 4 2 0 0 16 2 9 5 1 3 0	70.5% 6.6% 3.3% 0.0% 26.2% 3.3% 14.8% 8.2% 1.6% 4.9% 0.0% 1.6%	A-For P-Gra	1 1 e 0 0 e 0 b 4 b 3 b 6 ss 2 ss 1 ge 0	29.5% 1.6% 1.6% 0.0% 0.0% 6.6% 4.9% 9.8% 3.3% 1.6% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	2 FACW-	Nt Tree	BOX ELDER
ALLPET	0 ALLIARIA PETIOLATA			0) FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	O Ambrosia artemisii	folia elatior		3	B FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASACAN	7 Asarum canadense			5	UPL	Nt P-Forb	WILD GINGER
ASPOFF	0 ASPARAGUS OFFICINA	LIS		3	3 FACU	Ad P-Forb	ASPARAGUS
ATRPAT	O ATRIPLEX PATULA			-2	2 FACW-	Ad A-Forb	COMMON ORACH
BIDFRO	1 Bidens frondosa			-3	3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXVULP	2 Carex vulpinoidea			-5	5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CELOCC	3 Celtis occidentali	S		1	FAC-	Nt Tree	HACKBERRY
CHEALB	0 CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	O CIRSIUM ARVENSE			5	5 UPL	Ad P-Forb	FIELD THISTLE
CYPESC	O Cyperus esculentus			-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	O DAUCUS CAROTA			5	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusga	11i		-3	3 FACW	Nt A-Grass	BARNYARD GRASS
ELYCAN	4 Elymus canadensis			1	FAC-	Nt P-Grass	CANADA WILD RYE
ELYVIR	4 Elymus virginicus			-2	2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratu	m		-5	5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense			0) FAC	Cryptogam	HORSETAIL
EREHIE	2 Erechtites hieraci	folia		3	3 FACU	Nt A-Forb	FIREWEED
ERICAN	0 Erigeron canadensi	S		1	FAC-	Nt A-Forb	HORSEWEED
ERISTR	5 Erigeron strigosus			5	[UPL]	Nt B-Forb	DAISY FLEABANE
GEUCAN	1 Geum canadense			0) FAC	Nt P-Forb	WOOD AVENS
GEULAT	2 Geum laciniatum tr	ichocarpum		-3	3 FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata			-3	B [FACW]	Nt P-Grass	FOWL MANNA GRASS

GLYNMX	0 GLYCINE MAX	5 UPL	Ad A-Forb	SOY BEAN
HACVIR	O Hackelia virginiana	1 FAC-	Nt B-Forb	STICKSEED
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
HORJUB	0 HORDEUM JUBATUM	-1 FAC+	Ad P-Grass	SQUIRREL-TAIL GRASS
IMPCAP	3 Impatiens capensis	-3 FACW	Nt A-Forb	ORANGE JEWELWEED
LAPCAN	3 Laportea canadensis	-3 FACW	Nt P-Forb	WOOD NETTLE
LEEORY	4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LOBSIP	6 Lobelia siphilitica	-4 FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LONMAA	0 LONICERA MAACKII	5 UPL	Ad Shrub	AMUR HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PASSAT	O PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLLAP	O Polygonum lapathifolium	-4 FACW+	Nt A-Forb	HEARTSEASE
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PYCVIR	5 Pycnanthemum virginianum	-4 FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
RORPAF	4 Rorippa palustris fernaldiana 0 RUMEX CRISPUS	-5 OBL -1 FAC+	Nt A-Forb	MARSH CRESS CURLY DOCK
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
RUMCRI RUMVER	0 RUMEX CRISPUS 6 Rumex verticillatus	-1 FAC+	Ad P-Forb	CURLY DOCK SWAMP DOCK
RUMCRI RUMVER SALINT	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior	-1 FAC+ -5 OBL -5 OBL	Ad P-Forb Nt P-Forb Nt Shrub	CURLY DOCK SWAMP DOCK SANDBAR WILLOW
RUMCRI RUMVER SALINT SALNIG	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra	-1 FAC+ -5 OBL -5 OBL -5 OBL	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW
RUMCRI RUMVER SALINT SALNIG SAMCAN	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW-	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU SCRMAR	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis 4 Scrophularia marilandica	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL 4 FACU-	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH LATE FIGWORT
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU SCRMAR SETFAB	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis 4 Scrophularia marilandica 0 SETARIA FABERI	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL 4 FACU- 2 FACU+	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb Ad A-Grass	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH LATE FIGWORT GIANT FOXTAIL
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU SCRMAR SETFAB SILPER	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis 4 Scrophularia marilandica 0 SETARIA FABERI 5 Silphium perfoliatum	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL 4 FACU- 2 FACU+ -2 FACW-	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb Ad A-Grass Nt P-Forb	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH LATE FIGWORT GIANT FOXTAIL CUP PLANT
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU SCRMAR SETFAB SILPER SOLALT	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis 4 Scrophularia marilandica 0 SETARIA FABERI 5 Silphium perfoliatum 1 Solidago altissima	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL 4 FACU- 2 FACU+ -2 FACW- 3 FACU 5 UPL	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb Ad A-Grass Nt P-Forb	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH LATE FIGWORT GIANT FOXTAIL CUP PLANT TALL GOLDENROD
RUMCRI RUMVER SALINT SALNIG SAMCAN SCIFLU SCRMAR SETFAB SILPER SOLALT TRIPRA	0 RUMEX CRISPUS 6 Rumex verticillatus 1 Salix interior 4 Salix nigra 1 Sambucus canadensis 4 Scirpus fluviatilis 4 Scrophularia marilandica 0 SETARIA FABERI 5 Silphium perfoliatum 1 Solidago altissima 0 TRIFOLIUM PRATENSE	-1 FAC+ -5 OBL -5 OBL -5 OBL -2 FACW5 OBL 4 FACU- 2 FACU+ -2 FACW- 3 FACU 5 UPL	Ad P-Forb Nt P-Forb Nt Shrub Nt Tree Nt Shrub Nt P-Sedge Nt P-Forb Ad A-Grass Nt P-Forb Nt P-Forb	CURLY DOCK SWAMP DOCK SANDBAR WILLOW BLACK WILLOW ELDERBERRY RIVER BULRUSH LATE FIGWORT GIANT FOXTAIL CUP PLANT TALL GOLDENROD RED CLOVER

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/15/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: PEM;PSS X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No W05NW-1 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: Wide uncultivated area in middle corn field associated w/ drainage feature 2 photos 1 from sb facing s & 1 of sc **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Echinochloa crusgalli **FACW HERB** FAC **HERB** Eauisetum arvense 1 Trifolium pratense FACU+ **HERB** 3 8. Ambrosia artemisiifolia FACU **HERB** 3. 10 9. --Polygonum lapathifolium FACW+ HERB 10. --__ --1 Cyperus esculentus **FACW HERB** 20 11. 5. FACW Polygonum persicaria HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 20 (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: 18 (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Pella clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? Typic Endoaquolls X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Few(0"-12") faint redox features increase as depth increases, concretions found @ 14" Common(>12")distinct silty clay, moist, sticky, very rooty 0-6" 10YR 0 22 10YR 3/1 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: Inaugural South Suburban Airport Date: 08/15/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? **X** No Community ID: Upland Yes Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: **w**05NW-1 Yes Is The Area A Potential Problem Area? Plot ID: X No S2 Yes (If yes, define below.) Remarks: 2 photos 1sb, 1 facing n Long gentle gradient in corn field. **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind. Status Ind.Status Stratum % Cover Species Name Stratum % Cover Zea mays UPL **HERB** 99 7. 2. Setaria faberi FACU+ **HERB** 1 8. --3. 9. ----10. 4. 5. ----11. ----6. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Primary Indicators: X Aerial Photos Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: **NA** (in.) Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? X Yes Profile Description: Top **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, (Munsell Moist): (Munsell Moist): Abundance/Contrast Horizon and other soil characteristics Depth Depth 0-12 10YR 2/1 few distinct concretions found @ 20" 10YR 6/8 0-20 7.5YR 5/8 common faint 10YR 0 20 5/3 > 20" 5YR 5/8 few distinct clay, moist, sticky Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Profile appears to be eroded surface of sub-soil. WETLAND DETERMINATION Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes X No Yes Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W05NW2a
Date: August 15, 2008 2 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W05NW2a.inv

48 N 63 3.0 N 2.3 21.1 N 18.4 -0.8 N -0.4	W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam		76.2% 12.7% 4.8% 6.3% 1.6% 31.7% 1.6% 9.5% 7.9% 0.0% 0.0% 0.0%	Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	1 e 0 0 e 0 0 b 3 b 2 b 4 ss 3 ss 0 0	3.2% 1.6% 0.0% 0.0% 4.8% 3.2% 6.3% 4.8% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNO	MY COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Gras	s REDTOP
ALLPET	O ALLIARIA PETIOLATA			0	FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	O Ambrosia artemisii:	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASACAN	7 Asarum canadense			5	UPL	Nt P-Forb	WILD GINGER
ASPOFF	0 ASPARAGUS OFFICINA	LIS		3	FACU	Ad P-Forb	ASPARAGUS
ASTLAT	4 Aster lateriflorus			-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTNOV	4 Aster novae-anglia	е		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
ATRPAT	O ATRIPLEX PATULA			-2	FACW-	Ad A-Forb	COMMON ORACH
CELOCC	3 Celtis occidentali:	s		1	FAC-	Nt Tree	HACKBERRY
CHEALB	0 CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
CUSGRO	4 Cuscuta gronovii			-5	[OBL]	Nt A-Forb	COMMON DODDER
ELYCAN	4 Elymus canadensis			1	FAC-	Nt P-Gras	s CANADA WILD RYE
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Gras	s VIRGINIA WILD RYE
EUPRUG	4 Eupatorium rugosum			5	UPL	Nt P-Forb	WHITE SNAKEROOT
FRAPES	1 Fraxinus pennsylva	nica subinteger	rrima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GLETRI	2 Gleditsia triacant	hos		0	FAC	Nt Tree	HONEY LOCUST
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Gras	s FOWL MANNA GRASS
GLYNMX	0 GLYCINE MAX			5	UPL	Ad A-Forb	SOY BEAN
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER

IMPCAP	3 Impatiens capensis	-3 FACW	Nt A-Forb	ORANGE JEWELWEED
LAPCAN	3 Laportea canadensis	-3 FACW	Nt P-Forb	WOOD NETTLE
LEEORY	4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LOBSIP	6 Lobelia siphilitica	-4 FACW+	Nt P-Forb	GREAT BLUE LOBELIA
LONMAA	0 LONICERA MAACKII	5 UPL	Ad Shrub	AMUR HONEYSUCKLE
MONFIS	4 Monarda fistulosa	3 FACU	Nt P-Forb	WILD BERGAMOT
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OENBIE	O Oenothera biennis	3 FACU	Nt B-Forb	COMMON EVENING PRIMROSE
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1 Phytolacca americana	1 FAC-	Nt P-Forb	POKEWEED
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
PYCVIR	5 Pycnanthemum virginianum	-4 FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUDLAC	5 Rudbeckia laciniata	-4 FACW+	Nt P-Forb	WILD GOLDEN GLOW
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
RUMVER	6 Rumex verticillatus	-5 OBL	Nt P-Forb	SWAMP DOCK
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCRMAR	4 Scrophularia marilandica	4 FACU-	Nt P-Forb	LATE FIGWORT
SICANG	5 Sicyos angulatus	-2 FACW-	Nt H-Vine	BUR CUCUMBER
SILPER	5 Silphium perfoliatum	-2 FACW-	Nt P-Forb	CUP PLANT
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITAES	7 Vitis aestivalis	3 FACU	Nt W-Vine	SUMMER GRAPE
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/12/08 Applicant/Owner: Illinois Department of Transportation County: Will Matt Hildreth Investigator #1: Ann Amelse Illinois State: Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes Nο Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05NW-2a Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Plot within wooded floodplain of Rock Creek **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Elymus virginicus FACW-**HERB** FAC-VINE 35 Parthenocissus quinquef Gleditsia triacanthos FAC **TREE** 60 8. SHRUB Acer negundo FACW-30 3. 9. Acer negundo FACW-**TREE** 30 10. --__ --Geum canadense FAC **HERB** 20 11. 5. Eupatorium rugosum UPL HERB 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 83% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Sediment on leaves 2 ft above ground. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Jasper loam, 2 to 5 percent slopes Series Drainage Class: Well drained Taxonomy (Subgroup): Typic Argiudolls Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA mucky silty clay loam, moist, friable, 30% roots 12 Α 2/1 NA gravel, concretions 12 18 В 10YR 3/1 5YR common distinct gravelly loam, moist, friable, trace roots Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Probe refusal in gravel at 18" WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? Nο X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/12/08 Applicant/Owner: Illinois Department of Transportation County: Will #2: Matt Hildreth Investigator #1: **Ann Amelse** Illinois State: Do Normal Circumstances Exist On The Site? Community ID: X Yes Upland Is The Site Significantly Disturbed (Atypical Situation)? W05NW-2a Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Plot on floodplain terrace of Rock Creek **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Acer negundo FACW-TREE 10 Phleum pratense FACU HERB 15 8. Crataegus mollis FACW-TREE 10 Aster novae-angliae FACW-SHRUB 3. **FACW** HERB 5 9. Cornus foemina 25 Toxicodendron radicans FAC+ VINE 35 10. Agrostis alba **FACW HERB** 5 5. 11. Prunus serotina **FACU** TREE 50 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Jasper loam, 2 to 5 percent slopes Series Drainage Class: well drained Typic Argiudolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Jasper loam, 2 to 5 percent slopes Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA ilt loam, friable ,dry, 20% roots 9 A1 2/1 NA NA 9 A2 10YR 3/2 NA NA NA silt loam, friable ,dry, trace roots 14 NA 14 18 Bt 10YR 3/4 NA NA NΑ NA gravelly clay loam, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Probe refusal in gravel at 18" WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Yes Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 08/14/08 Applicant/Owner: Illinois Department of Transportation County: Will Matt Hildreth Investigator #1: Illinois **Ann Amelse** State: Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes Community ID: Is The Site Significantly Disturbed (Atypical Situation)? W05NW-2a Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: **S3** Yes (If yes, define below.) Remarks: Plot is within wooded floodplain of Rock Creek **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Rudbeckia laciniata FACW+ **HERB** Salix fragilis FAC+ TREE 10 Viola sororia FAC-**HERB** 30 8. Sicvos angulatus FACW-**HERB** 5 FACW-Elymus virginicus **HERB** 20 3. 9. Acer negundo FACW-TREE 5 Fraxinus pennsylvanica **FACW TREE** 75 10. Pilea pumila **FACW HERB** 10 5. 11. Crataegus mollis FACW-TREE 15 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Pella silty clay loam, 0 to 2 percent slop Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics mucky texture silty loam, moist, friable 10YR 0 2.5/1 NA 11 Α NA some gravel 11 16 В 10YR 3/1 NA NA NA NA silty loam, moist, friable 16 10YR 22 ВТ 3/1 10YR 4/6 common prominent silty clay, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/14/08 Applicant/Owner: Illinois Department of Transportation County: Will #2: Matt Hildreth Investigator #1: Ann Amelse Illinois State: Do Normal Circumstances Exist On The Site? Community ID: X Yes Upland Is The Site Significantly Disturbed (Atypical Situation)? W05NW-2a Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: **S4** Yes (If yes, define below.) Remarks: 2 photos Plot is within remnant prairie/old field next to Rt 50. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Monarda fistulosa **FACU** HERB Solidago canadensis FACU HERB 10 Cornus foemina FACW-**SHRUB** 20 8. Poa pratensis FAC-**HERB** 15 2. Vitis riparia FACW-VINE Silphium terebinthinaceu **HERB** 3. 10 9. **FACU** 15 Aster novae-angliae **FACW** HERB 10 10. Solidago rigida FACU-HERB 5 **Bromus inermis** UPL **HERB** 20 11. Pastinaca sativa UPL **HERB** 5 5. Helianthus decapetalus UPL HERB 15 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 29% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 2.5Y 0 NA oam, moist, friable Α 3/2 NA 5 21 Bt 10YR 4/3 NA NA NA NA Silty clay loam, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Yes Remarks: This plot is not located in a wetland.

Site: Inaugural South Suburban Airport

Locale: W05NW2b
Date: August 14, 2008 30 minutes
By: AECOM: A. Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W05NW2b.inv

FLORISTIC (QUALITY DATA	Native	10	90.9%	Adventive	1	9.1%
10 NATIVI	E SPECIES	Tree	4	36.4%	Tree	0	0.0%
11 Total	l Species	Shrub	1	9.1%	Shrub	0	0.0%
2.0 NATIV	E MEAN C	W-Vine	2	18.2%	W-Vine	0	0.0%
1.8 W/Ad	ventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.3 NATIV	E FQI	P-Forb	3	27.3%	P-Forb	0	0.0%
6.0 W/Ad	ventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.4 NATIV	E MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.0 W/Ad	ventives	P-Grass	0	0.0%	P-Grass	1	9.1%
AVG: Facula	ative	A-Grass	0	0.0%	A-Grass	0	0.0%
		P-Sedge	0	0.0%	P-Sedge	0	0.0%
		A-Sedge	0	0.0%	A-Sedge	0	0.0%
		Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree BOX ELDER
ASTLAT	4 Aster lateriflorus	-2 FACW-	Nt P-Forb SIDE-FLOWERING ASTER
CRAMOL	2 Crataegus mollis	4 FACU-	Nt Tree DOWNY HAWTHORN
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree GREEN ASH
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine VIRGINIA CREEPER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass REED CANARY GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb WOODLAND KNOTWEED
PRUSER	1 Prunus serotina	3 FACU	Nt Tree WILD BLACK CHERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub BLACK RASPBERRY
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb LATE GOLDENROD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/14/08 Applicant/Owner: Illinois Department of Transportation County: Will Matt Hildreth Investigator #1: **Ann Amelse** Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? W05NW-2b Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: 2 photos, dry recently (hydrology) Plot is in small depression on terrace above floodplain of Rock Creek **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Fraxinus pennsylvanica **FACW SHRUB** 5 Polygonum virginianum FAC HERB 10 8. Rubus occidentalis UPL **SHRUB** 10 Prunus serotina **FACU** TREE FACW-HERB 3. 50 9. Aster lateriflorus 25 Acer negundo FACW-TREE 10 10. Crataegus mollis FACW-TREE 10 5. 11. FACW-**SHRUB** Acer negundo 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) X FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Jasper loam, 5 to 10 percent slopes, ero Series Drainage Class: well drained Typic Argiudolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics oxidized rhizospheres 0 10YR NA loam, dry, friable 8 A1 2/1 NA 8 10 10YR 2/1 5YR 3/3 common distinct loam, dry, friable A2 10 7.5YR 13 В1 10YR 4/2 4/4 many distinct loam, moist, friable B2 13 21 2.5Y 5/2 10YR 4/4 prominent loam, moist, friable many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil characteristics more closely resemble Pella clay loam, the hydric soil mapped adjacent. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο X Yes X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/14/08 Applicant/Owner: Illinois Department of Transportation County: Will Matt Hildreth Investigator #1: Ann Amelse Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W05NW-2b Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Plot on terrace above floodplain of Rock Creek **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Prunus serotina FACU **TREE Bromus inermis** UPL **HERB** 95 8. Crataegus mollis FACW-TREE 3. 10 9. Lonicera tatarica **FACU SHRUB** 10 10. ----5. Rubus occidentalis UPL **SHRUB** 5 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Jasper loam, 5 to 10 percent slopes, ero Series Drainage Class: well drained Typic Argiudolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA oam, dry, friable 8.5 Α 2/2 NA 8.5 21 В 10YR 4/4 NA NA loam, dry, friable NA NA Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/25/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W05NW-5 Is The Area A Potential Problem Area? X No Plot ID: Yes NA (If yes, define below.) Remarks: Tiled grassed waterway. Upland vegetation **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover 1. Bromus inermis UPL **HERB** 7. 2. Phleum pratense **FACU HERB** 8. Ambrosia artemisiifolia **FACU** HERB --3 9 4. --10. --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Matrix Color Mottle Colors Bottom Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydric Soils Present? No soil core taken* Hydrophytic Vegetation Present? Yes X No Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/25/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: X No Is The Site Significantly Disturbed (Atypical Situation)? Yes Station ID: W05NW-6 Is The Area A Potential Problem Area? **X** No Plot ID: Yes NA (If yes, define below.) Remarks: Grassed tiled drainageway VEGETATION Dominant Species (50/20 Rule) Species Name Ind. Status Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover 1. Bromus inermis UPL **HERB** 7. Setaria faberi FACU+ 2. **HERB** 8. Solidago nemoralis HPI **HFRR** --3 9 4. Bromus inermis UPL **HERB** --10. --HERB Phleum pratense **FACU** 11. Ambrosia artemisiifolia **FACU HERB** 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 0% Remarks: Hydrophytic vegetation is not dominant Cover percentages not recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: No wetland hydrology NRCS Slide Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Matrix Color Mottle Colors Bottom Mottle Texture, moisture, consistency, organic material, Top Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Vegetation and hydrology do not meet wetland criteria. WETLAND DETERMINATION Hydric Soils Present? No soil core taken* Hydrophytic Vegetation Present? Yes X No Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in wetland. *No soil core taken because vegetation and hydrology parameters did not meet wetland criteria.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/25/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: **X** No Is The Site Significantly Disturbed (Atypical Situation)? Yes Station ID: W05NW-7 Is The Area A Potential Problem Area? **X** No Plot ID: Yes NA (If yes, define below.) Remarks: Grassed, tiled drainageway with upland vegetation. Photo 620 **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover 7. 1. Bromus inermis UPL **HERB** 2. Phleum pratense **FACU HERB** 8. Dactylis glomerata **FACU** HERB --3. 9 4. --10. --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Matrix Color Mottle Colors Bottom Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydric Soils Present? No soil core taken* Hydrophytic Vegetation Present? Yes X No Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/14/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? **X** No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: W05NW-8 Is The Area A Potential Problem Area? **X** No Plot ID: Yes (If yes, define below.) Remarks: Soybean field **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover 1. Glycine max UPL **HERB** 100 7. 2. 8. 3. ----9 4. ----10. --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Udollic Epiaqualfs Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 8 10YR 3/3 NΑ NΑ NΑ NΑ silt loam, moist, friable Αp 8 Α 10YR 3/1 NA NΑ NΑ NΑ silt loam, moist, friable 9 12 В 10YR 3/3 10YR 6/4 few faint silty clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Hydric Soils Present? **X** No Yes X No Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland.

Inaugural South Suburban Airport Site:

Locale: W05SE2
Date: August 25, 2008 15 minutes
By: AECOM: S. Johnson; T. Schultz
File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SE2.inv

FLORISTIC QUALITY DATA	Native	2	33.3%	Adventive	4	66.7%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
6 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	1	16.7%
-2.0 NATIVE MEAN W	A-Forb	1	16.7%	A-Forb	1	16.7%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	1	16.7%	A-Grass	2	33.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
IPOHED	0 IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/25/08 Applicant/Owner: Illinois Department of Transportation County: Will Sarah Johnson **Tory Schultz** Illinois Investigator #1: State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? W05SE-2 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Corn field with scour marks and field drainage tile **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover UPL **HERB** Zea mays Abutilon theophrasti FACU-HERB 5 8. 3. Daucus carota UPL **HERB** 5 9. 10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS slide review location. Siltation and scour pattern in corn field SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics few gravel 0 7.5YR NA Ap 3/1 NA loam, dry, very friable 7.5YR 2/1 7.5YR 5/6 common distinct silty loam, moist, friable 14 Α 14 21 В 10YR 4/2 10YR 4/6 many clay, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (F1) Loamy Mucky Mineral (A4) Hydrogen Sulfide (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X Yes No X Yes Wetland Hydrology Present? No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland. Plot has positive indicators for wetland hydrology and soils. Drainage tiles are effective enough to eliminate wetland vegetation. Under normal circumstances, wetland vegetation would likely be present.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: **Sarah Johnson** Illinois **Tory Schultz** State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No W05SE-2 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Corn field on slope NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Zea mays UPL **HERB** Asclepias syriaca UPL **HERB** 8. 2. FACU+ Setaria faberi **HERB** --3. --9. Ambrosia artemisiifolia **FACU HERB** --10. ----Ipomoea hederacea FAC VINE 5. 11. Echinochloa crusgalli **FACW HERB** 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Some gully erosion due to surface drainage on hillside SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No soil core taken* No Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core collected* X No Yes Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in a wetland. *Vegetation and hydrology do not meet wetland criteria, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/26/09 Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? W05SE-3 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΔ Yes (If yes, define below.) Remarks: Successful corn crop. VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. --9. 4. ------10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Corn field **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS review site SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 3.<u>5</u>/2 0 NA A1 NA moist, friable, silty clay 12 A2 10YR 3/2 NA NA NA NA moist, friable, silty clay 12 20 В 10YR 3.5/2 10YR 5/6 many faint moist, firm, clay Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? **X** No Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/25/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Teri Radke Illinois Investigator #1: State: Do Normal Circumstances Exist On The Site? Community ID: X Yes Upland Is The Site Significantly Disturbed (Atypical Situation)? W05SE-4 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Grassed waterway in cultivated field **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Phleum pratense **FACU HERB** 8. Solidago altissima **HERB** 3. **FACU** 9. --10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS slide review site SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No Soil Core Taken No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *No wetland vegetation or hydrology present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria; no soil core taken.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will #2: Robert Page Investigator #1: Teri Radke Illinois State: Do Normal Circumstances Exist On The Site? Upland X Yes Nο Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05SE-5 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΔ Yes (If yes, define below.) Remarks: Tiled, grassed waterway in cornfield Photo 613 **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Setaria faberi FACU+ **HERB** 8. Solidago altissima **HERB** 3. **FACU** 9. --10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No Soil Core Taken* No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are absent, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes Yes X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. Vegetation and hydrology do not meet wetland criteria; no soil core taken. *Wetland vegetation and hydrology are absent, so no soil core taken.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Sarah Johnson State: Illinois Investigator #1: #2: Torv Schultz Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? W05SE-6 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Cornfield; natural gradient provides drainage NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Zea mays UPL HERB Asclepias syriaca UPL **HERB** 8. Setaria faberi FACU+ HERB --3. 9. Ambrosia artemisiifolia **FACU** HERB --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Area is on a slope. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* No Yes Yes X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 08/26/08 **Inaugural South Suburban Airport** Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: **Sarah Johnson** Illinois **Tory Schultz** State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W05SE-7 **X** Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Tiled drainage in grassed waterway NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name Stratum % Cover Trifolium repens FACU+ **HERB** Poa pratensis FAC-**HERB** Setaria faberi FACU+ **HERB** 8. Ambrosia artemisiifolia **FACU HERB** 2. Taraxacum officinale FACU **HERB** --3. --9. --Trifolium pratense FACU+ **HERB** 10. --Daucus carota UPL **HERB** 5. 11. Ambrosia trifida FAC+ HERB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 13% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *No wetland vegetation or hydrology present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core taken* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. No wetland vegetation or hydrology present, so no soil core collected. *Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/12/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: T. Radke, A. Amelse, S. Johnson T. Schultz, R. West, M. Hildreth Illinois State: Upland Do Normal Circumstances Exist On The Site? X Yes Community ID: Is The Site Significantly Disturbed (Atypical Situation)? W05SE-8 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Grassed area in cornfield; probably tiled. NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Bromus inermis UPL **HERB** 2. Physalis subglabrata UPL **HERB** 8. --3. --9. 4. ----10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. * Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. * Wetland vegetation and hydrology are not present, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Project/Site: Date: 08/12/08 Applicant/Owner: Illinois Department of Transportation County: Will T. Radke, A. Amelse, S. Johnson T. Schultz, R. West, M. Hildreth Illinois Investigator #1: State: Do Normal Circumstances Exist On The Site? X Yes Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W05SE-9 Yes X No Station ID: Is The Area A Potential Problem Area? Plot ID: Yes X No NΑ (If yes, define below.) Remarks: Bare, narrow swath through corn field is drainage area. Appears that water moves through but does not remain here. NRCS Slide Review site **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind. Status Species Name Ind.Status Stratum % Cover Stratum % Cover Abutilon theophrasti FACU-**HERB** Zea mays UPL **HERB** 8. 2. Ambrosia artemisiifolia **FACU HERB** 3. --9. --__ Setaria faberi FACU+ **HERB** 10. ----4. 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Scour observed in narrow swath through corn field. NRCS Slide Review Water moves through area but does not remain. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria, so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/26/08 Project/Site: Date: Will Applicant/Owner: Illinois Department of Transportation County: Investigator #1: T. Radke R. Page Illinois State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05SE-10 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Successful crop of corn. NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name Stratum % Cover UPL **HERB** 100 Zea mays 2. 8. --3. ----9. 4. --------10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Corn crop is successful, with no sign of water stress. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core collected* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. * Successful corn crop with no sign of stress and no wetland hydrology, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core collected* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

Site: Inaugural South Suburban Airport

Locale: W05SW1

Date: August 15, 2009 30 minutes
By: AECOM; S. Johnson; T. Schultz
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W05SW1.inv

16 NA 21 7 2.4 NA 1.9 T 9.8 NA 8.5 T -1.0 NA -0.5 T	FIC QUALITY DATA ATIVE SPECIES Fotal Species ATIVE MEAN C W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W M/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	16 3 4 0 0 4 0 1 1 0 3 0	76.2% 14.3% 19.0% 0.0% 0.0% 19.0% 0.0% 4.8% 4.8% 0.0% 14.3% 0.0%	Adven Tree Shruh W-Vin H-Vin P-For A-For A-Gra P-Sed A-Sed	1 e 0 0 e 0 b 1 b 0 0 b 0 0 sss 1 sss 0 0 ge 0 0	23.8% 9.5% 4.8% 0.0% 0.0% 4.8% 0.0% 0.0% 4.8% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTLAT	4 Aster lateriflorus			-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CONARV	0 CONVOLVULUS ARVENS	IS		5	UPL	Ad P-Forb	FIELD BINDWEED
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPESC	O Cyperus esculentus			-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
FRAPES	1 Fraxinus pennsylva	nica subinteg	errima	0	FAC	Nt Tree	GREEN ASH
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNTOR	4 Juncus torreyi			-3	FACW	Nt P-Forb	TORREY'S RUSH
LONMAA	0 LONICERA MAACKII			5	UPL	Ad Shrub	AMUR HONEYSUCKLE
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINAC	EΑ		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PRUVIR	3 Prunus virginiana			3	[FACU]	Nt Shrub	CHOKE CHERRY
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0 SALIX FRAGILIS			-1	FAC+	Ad Tree	CRACK WILLOW
SAMCAN	1 Sambucus canadensi	s		-2	FACW-	Nt Shrub	ELDERBERRY
SCIATR	4 Scirpus atrovirens			-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SORNUT	5 Sorghastrum nutans			2	FACU+	Nt P-Grass	INDIAN GRASS
TRAOHI	2 Tradescantia ohien	sis		2	FACU+	Nt P-Forb	COMMON SPIDERWORT
ULMAME	3 Ulmus americana			-2	FACW-	Nt Tree	AMERICAN ELM

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/15/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson State: Illinois #2: Tory Schultz Wetland Complex Do Normal Circumstances Exist On The Site? Community ID: X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: W05SW-1 Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Small grassy, wooded drainageway **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name Stratum % Cover Phalaris arundinacea FACW+ **HERB** 100 7. Asclepias incarnata OBL HERB 8. 2. 5 Convolvulus sepium FAC **HERB** 10 9 --3. 4. 10. 5. 11. 6 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 12 (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 5 10YR 3/1 NΑ NΑ silty loam, moist,friable Α NA NA 10YR 6/3 common orominen 13 В 10YR 3/1 10YR 4/6 common distinct silty clay loam, moist, friable 13 25 Bt 5Y 5/1 10YR 5/6 distinct clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface **X** (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Hydric Soils Present? X Yes No X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes Nο X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 08/15/08 Project/Site: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson State: Illinois #2: Tory Schultz Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes **X** No Station ID: W05SW-1 Is The Area A Potential Problem Area? Yes X No Plot ID: S2 (If yes, define below.) Remarks: --**VEGETATION Dominant Species (50/20 Rule)** Ind.Status Stratum % Cover Species Name Species Name Ind. Status Stratum % Cover Pastinaca sativa UPL **HERB** 10 7. Cirsium arvense **FACU** HERB 5 Asclepias syriaca UPL HERB 8. Plantago major FAC+ **HERB** 5 2. 10 Toxicodendron radicans FAC+ **SHRUB** 10 Polygonum scandens FAC HERB 10 3 9 4. Plantago lanceolata FAC HERB 5 10. Solanum carolinense FACU-SHRUB 5 Poa pratensis FAC-**HERB** 30 11. Spartina pectinata FACW+ **HERB** 5 Rosa multiflora Festuca elatior **FACU SHRUB** UPL **HERB** 40 5 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 19 10YR 3/1 NΑ NΑ NΑ NΑ silty clay loam, moist, friable Α 19 23 В 10YR 5/4 10YR 5/6 many prominent sandy clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. No redox features WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W05SW3

Date: MUDSW3
Date: August 15, 2009 1 hours
By: AECOM; A.Amelse; M.Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW3.inv

26 33 2.4 1.9 12.4 11.0 -0.3 0.0	STIC QUALITY DATA NATIVE SPECIES Total Species NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	26 3 5 2 0 10 0 3 2 1 0 0	78.8% 9.1% 15.2% 6.1% 0.0% 30.3% 0.0% 9.1% 6.1% 3.0% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra P-Sed A-Sed	0 3 e 1 e 0 b 0 b 2 b 0 ss 1 ss 0 ge 0	21.2% 0.0% 9.1% 3.0% 0.0% 0.0% 6.1% 0.0% 3.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASCINC	4 Asclepias incarnata	ì		-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASTNOV	4 Aster novae-angliae	è		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSAD	2 Aster sagittifolius	drummondii		3	[FACU]	Nt P-Forb	DRUMMOND'S ASTER
BARVUL	0 BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
CIRLUC	1 Circaea lutetiana o	canadensis		3	FACU	Nt P-Forb	ENCHANTER'S NIGHTSHADE
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Forb	HEDGE BINDWEED
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
ECHCRU	0 Echinochloa crusgal	lli		-3	FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
FRAPES	1 Fraxinus pennsylvar	nica subintege	errima	0	FAC	Nt Tree	GREEN ASH
GALAPA	1 Galium aparine			3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELHEL	5 Heliopsis heliantho	oides		5	UPL	Nt P-Forb	FALSE SUNFLOWER
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PARQUI	2 Parthenocissus quir	nquefolia		1	FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	ΣA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australi	s		-4	FACW+	Nt P-Grass	COMMON REED
PILPUM	5 Pilea pumila			-3	FACW	Nt A-Forb	CLEARWEED
POLGVI	2 Polygonum virginiar	num		0	FAC	Nt P-Forb	WOODLAND KNOTWEED
RHAFRA	0 RHAMNUS FRANGULA			-1	FAC+	Ad Shrub	GLOSSY BUCKTHORN
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RIBAME	7 Ribes americanum			-3	FACW	Nt Shrub	WILD BLACK CURRANT
ROSMUL	0 ROSA MULTIFLORA			3	FACU	Ad Shrub	MULTIFLORA ROSE

RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
ULMAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM
VERURU	5 Verbena urticifolia	5 UPL	Nt P-Forb	HAIRY WHITE VERVAIN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/15/08 Applicant/Owner: Illinois Department of Transportation County: Will #2: Matt Hildreth Investigator #1: Ann Amelse Illinois State: Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05SW-3 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Shrubby, wooded drainageway VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Salix discolor FACW **SHRUB** Polygonum virginianum FAC **HERB** 30 Euthamia graminifolia FACW-HERB 10 8. Geum laciniatum **FACW** HERB 10 SHRUB Elymus virginicus HERB 3. FACW-15 9. Lonicera tatarica **FACU** 10 Pilea pumila **FACW HERB** 20 10. Cornus foemina FACW-**SHRUB** 10 5. 11. Ulmus americana FACW-TREE 60 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA silty clay loam, dry, friable 13 Α 2/1 NA 13 21 Bt 5Y 4.5/1 10YR 4/4 many prominent clay, firm, dry, some gravel Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/15/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Matt Hildreth Illinois #2: Ann Amelse State: Do Normal Circumstances Exist On The Site? X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W05SW-3 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Edge of corn field VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum% Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Rosa multiflora FACU SHRUB 5 Asclepias syriaca UPL HERB 10 8. Solidago canadensis **FACU** HERB 3. 10 9. Festuca elatior UPL **HERB** 10 10. --__ --Zea mays UPL HERB 10 11. 5. FACW Salix discolor **SHRUB** 5 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics silty clay loam, dry, friable 0 10.5 10YR NA Α 3/2 NA clay coated pores 10.5 21 Bt 7.5 YR 4/1 5YR 5/6 prominent clay loam, firm, dry, some gravel mixed in many Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? **X** No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Yes Remarks: This plot is not located in wetland.

Inaugural South Suburban Airport Site:

Locale: W05SW6
Date: August 25, 2008 30 minutes
By: AECOM: A. Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW6.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
O NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	1	100.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

W WETNESS PHYSIOGNOMY COMMON NAME ACRONYM C SCIENTIFIC NAME

ZEAMAY 0 ZEA MAYS 5 UPL Ad A-Grass CORN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? W05SW-6 Yes X No Station ID: Is The Area A Potential Problem Area? Plot ID: X No S1 Yes (If yes, define below.) Remarks: Corn crop showing signs of stress. Evidence of water moving through and ponding. **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover UPL **HERB** Zea mays 50 2. 8. 3. 9. 4. ----10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** No Yes Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Mottle Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR Ap 2/1 NA NA NA clay loam, dry, firm Btg1 5BG 10YR 5/1 manv prominent clay loam, moist, firm 10G 5/1 common prominent 9 20 Btg2 2.5Y 5/2 10YR 4/4 prominent clay, moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface X (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral X (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X Yes No Wetland Hydrology Present? X Yes Is This Sampling Point Within A Wetland? No X Yes No Remarks: This plot is located in wetland. Hydric soils and wetland hydrology are present, so this area would likely support a dominance of hydrophytic vegetation if it were not actively cropped.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** Illinois Investigator #1: #2: Robyn West State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? W05SW-6 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Corn crop showing signs of stress. **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status <u>Stratum</u> % Cove Species Name Ind. Status **Stratum** % Cover UPL **HERB** Zea mays 70 8. 2. 3. 9. --4. ------10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. Presence of drainageway and stressed crop shows that water is here during the growing season long enough to affect vegetation. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Top Mottle Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR clay loam, dry, firm 0 6 Ap 3/2 NA NA NA NA 10 Вt 2.5Y 5/2 10YR prominent clay, dry, firm 6 4/6 manv refusal at 10" Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Refusal at 10" from hard clay layer. Depleted matrix likely extends down another 2", so hydric soil indicators A11 and F3 would be met. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No Yes X Yes Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No

Crop stress and hydric soils found in this plot, and NRCS results, indicate that hydrology is present during a the growing season. With hydric soils and

wetland hydrology present, this area would likely support dominant hydrophytic vegetation if it were not actively cropped

Remarks: This plot is located in a wetland.

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DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: **Ann Amelse** #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No W05SW-6 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: **S**3 Yes (If yes, define below.) Remarks: Successfully cropped corn field VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name **Stratum** % Cover UPL HERB Zea mays 2. 8. 3. 9. --4. ----__ 10. ----__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR silty clay loam, dry, firm 10 Ap 3/2 NA NΑ NA NA 5Y 5/2 common prominent 10 12 10YR 4/3 10YR 4/4 distinct silty clay loam, dry, firm many refusal at 12" Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X No Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes

Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 08/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Nο Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W05SW-7 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Probable field tile location. One photo taken **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia artemisiifolia FACU **HERB Bromus inermis** UPL **HERB** 8. UPI **HERB** 3. Daucus carota 9. Festuca elatior FACU+ **HERB** --10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages were not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Hydrophytic vegetation and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core collected* No Yes Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *Hydrophytic vegetation and wetland hydrology not present, so soil core not taken.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? w05SW-8 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Successfully cropped corn field; field tile drainage likely **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover UPL **HERB** Zea mays 100 2. 8. 3. 9. 4. --10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Healthy corn crop. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** No Yes Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Top Mottle Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR 9 Ap 2/2 NA NA silty clay loam, dry, firm 9 15 В1 10YR 4/2 10YR distinct 4/6 common clay loam, moist, firm 15 20 B2 2.5Y 5/2 10YR common prominent clay loam, moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and crop does not appear to be stressed.

Site: Inaugural South Suburban Airport
Locale: W05SW9
Date: August 25, 2008 30 minutes
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W05SW9.inv

11 NA 13 T 2.7 NA 2.3 W 9.0 NA 8.3 W -3.1 NA -3.2 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	0 3 0 2 0 0 0 3	84.6% 0.0% 15.4% 0.0% 23.1% 0.0% 15.4% 0.0% 23.1% 0.0% 7.7%		Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra P-Sed A-Sed	0 e 0 0 b 0 b 0 0 b 0 0 ss 2 ss 0 ge 0	0.0% 0.0% 0.0% 0.0% 0.0% 15.4% 0.0%
ACRONYM	C SCIENTIFIC NAME				W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	O AGROSTIS ALBA				-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida				-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex				-5	OBL	Nt P-Forb	PANICLED ASTER
CXSCOP	7 Carex scoparia				-3	FACW	Nt P-Sedge	LANCE-FRUITED OVAL SEDGE
CORRAC	1 Cornus racemosa				-2	FACW-	Nt Shrub	GRAY DOGWOOD
EQUARV	O Equisetum arvense				0	FAC	Cryptogam	HORSETAIL
HELGRO	2 Helianthus grossese	erratus			-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	O PHALARIS ARUNDINACE	CA .			- 4	FACW+ Ad P-Grass		REED CANARY GRASS
POLHYR	2 Polygonum hydropipe	er			-3	FACW	Nt A-Forb	WATER PEPPER
SALINT	1 Salix interior				-5	OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens				-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SCICYP	6 Scirpus cyperinus				-5	OBL	Nt P-Sedge	WOOL GRASS
SOLGIG	4 Solidago gigantea				-3	FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/25/08 Date: Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** #2: Robyn West State: Illinois Investigator #1: Do Normal Circumstances Exist On The Site? Community ID: X Yes PEM Is The Site Significantly Disturbed (Atypical Situation)? W05SW-9 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Ind. Status Species Name Stratum % Cover Scirpus atrovirens OBL HERB Scirpus cyperinus OBL **HERB** 10 8. 2. Agrostis alba HERB **FACW** 3. 30 9. Carex scoparia **FACW HERB** 15 10. __ ----Aster lateriflorus FACW-**HERB** 15 11. Carex bebbii OBL HERB 15 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Taxonomy (Subgroup): **Typic Endoaquolls** Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics oxidized rhizospheres 0 10YR mucky silt loam, moist, friable 2/1 NA 10 Bt 10YR NA NA NA silty clay loam, moist, friable 3/1 NA 10Y 5/1 common prominent 2.5Y 10 12 Btg1 4.5/1 10YR 4/6 common prominent clay, moist, firm 12 20 10YR Btg2 10Y 5/1 4/6 prominent clay, moist, firm many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A1) Histosol (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions Version 6.0 (NRCS, 2006) (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Hydric Soils Present? X Yes No X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/25/08 Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** Illinois Investigator #1: #2: Robyn West State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? w05SW-9 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Successful corn crop. **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status <u>Stratum</u> % Cove Species Name Ind. Status **Stratum** % Cover **HERB** Zea mays UPL 8. 2. 3. 9. 4. --10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top Mottle Depth Depth (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR silty clay loam, moist, friable 8 Ap 2/1 NA NA 13 Bt1 2.5Y 4/1 10YR common prominent silty clay, moist, firm 4/6 13 20 Bt2 2.5Y 4.5/1 10YR 4/6 common prominent silty clay, moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? X Yes No X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and crop does not appear to be stressed.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 08/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: **Ann Amelse** #2: Robyn West Illinois State: Upland Do Normal Circumstances Exist On The Site? Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No W05SW-10 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Plowed field, no vegetation VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status **Stratum** % Cover 2. 8. 3. 9. 4. --10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): NA Remarks: No vegetation present **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA clay loam, dry, friable Ap 2/1 NA 10YR 2/1 NA NA NA clay loam, moist, firm 11 NA 11 16 В 10YR 3/1 10YR 4/6 common prominent clay loam, moist,firm 10YR 16 20 Вt 2.5Y 4/2 4/6 prominent clay, moist, firm many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils not present. Soil profile does not quite match A12.

X No

X No

Yes

Remarks: This plot is not located in a wetland.

Hydric Soils Present?

Is This Sampling Point Within A Wetland?

WETLAND DETERMINATION
Hydrophytic Vegetation Present?

Wetland Hydrology Present?

Page	334
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X No

X No

Yes

Yes

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/15/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: **Ann Amelse Matt Hildreth** Illinois State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05SW-11 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Successful crop of corn. NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name Stratum % Cover UPL **HERB** 100 Zea mays 2. 8. --3. --9. 4. --------10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core taken.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 08/15/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: **Ann Amelse Matt Hildreth** Illinois State: Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No W05SW-12 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Successful crop of corn. NRCS Slide Review site VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name Stratum % Cover UPL **HERB** 100 Zea mays 2. 8. --3. --9. 4. --------10. ----5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No Soil Core Taken* Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not mapped. *Wetland vegetation and hydrology are not present, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No Soil Core taken* Yes Yes No X No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are not present, so no soil core taken.

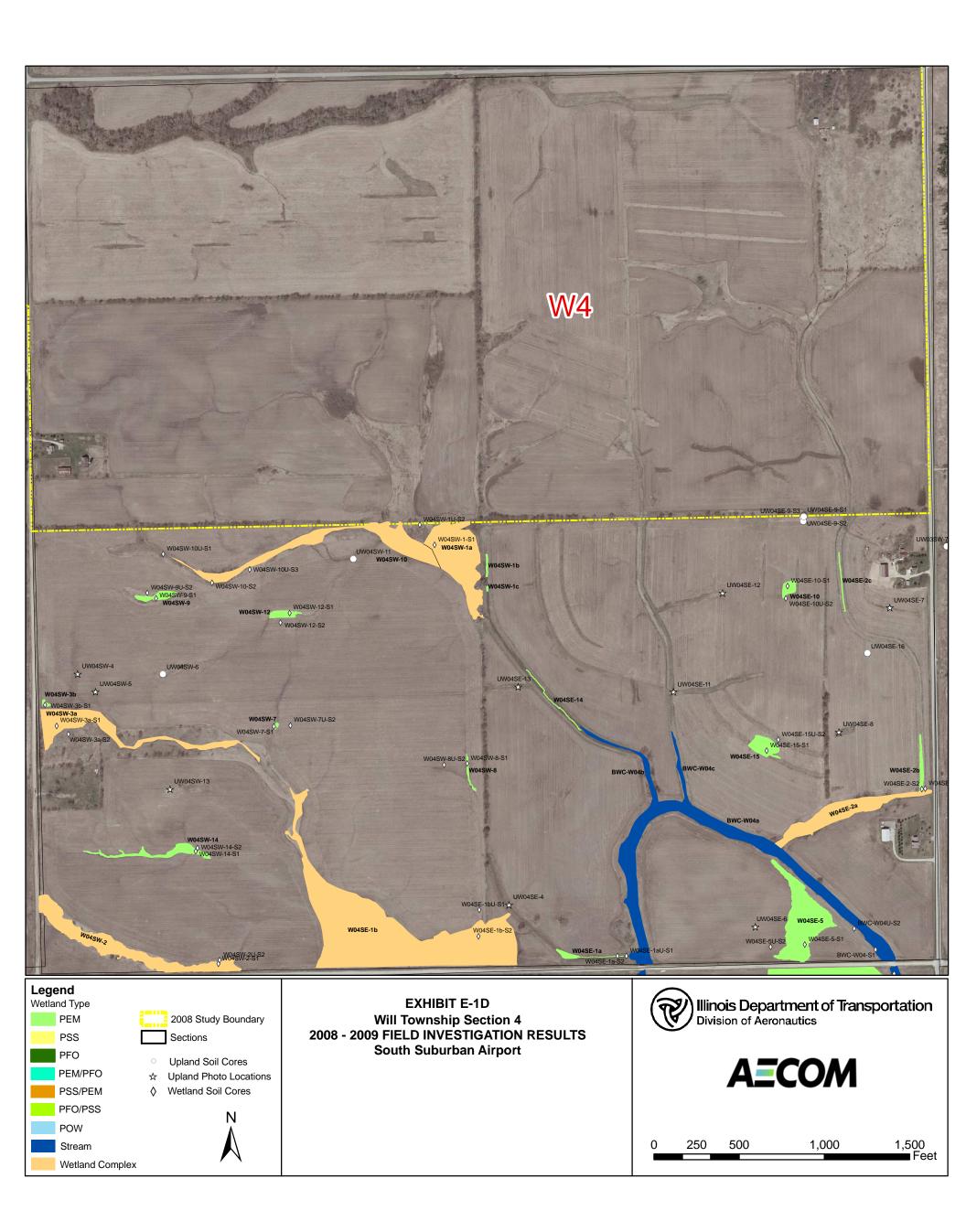
Appendix E Section Will 04

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W04SE-1a-S2	22	No		
W04SE-1aU-S1	22	Yes	0.0	
W04SE-1b-S2	20	Yes	40.0	
W04SE-1bU-S1	21	Yes	13.3	
W04SE-2a	NA	NA	8.9	W04SE-2 soil points are for areas a&b
W04SE-2b	NA	NA		W04SE-2 soil points are for areas a&b
W04SE-2-S2	20	Yes	0.7	·
W04SE-2U-S1	20	Yes		
UW04SE-4	NA	NA	NA	Photo NW
W04SE-5-S1	20	Yes		
W04SE-5U-S2	21	Yes	0.0	
UW04SE-6	NA	NA	NA	Photo W
UW04SE-7	NA	NA	NA	Photo E
UW04SE-8	NA	NA	NA	Photo E
UW04SE-9-S3	20	No	NA	
W04SE-10-S1	20	Yes	0.0	
W04SE-10U-S2	20	Yes	0.0	
UW04SE-11	NA	NA	NA	Photo E
UW04SE-12	NA	NA	NA	Photo W
UW04SE-13	NA	NA	NA	Photo W
W04SE-14	NA	NA	5.3	No data form, tiled drainageway, tributary to BWC
W04SE-15-S1	23	Yes	0.4	
W04SE-15U-S2	20	No	6.4	
UW04SE-16	31	No	NA	
W04SW-1a	NA	NA	15.7	W04SW-1 soil points are for areas a, b & c
W04SW-1b&c	NA	NA		W04SW-1 soil points are for areas a, b & c
W04SW-1-S1	20	Yes	6.3	,
W04SW-1U-S2	20	Yes	0.0	
W04SW-2-S1	22	Yes		
W04SW-2U-S2	21	No	2.3	
W04SW-3a-S1	20	Yes		
W04SW-3aU-S2	20	Yes	20.6	
W04SW-3b-S1	NA	NA	0.0	no soil core
UW04SW-4	NA	NA	NA	Photo S
UW04SW-5	NA	NA	NA	Photo SE
UW04SW-6	20	No	NA	
W04SW-7-S1	19	Yes	0.0	
W04SW-7U-S2	20	No	0.0	
W04SW-8-S1	19	Yes	2.2	
W04SW-8U-S2	20	Yes	0.0	cornfield
W04SW-9-S1	20	Yes	7.0	
W04SW-9U-S2	20	No	7.8	
W04SW-10-S2	20	Yes		
W04SW-10U-S1	20	No	10.6	tiled drainage way
W04SW-10U-S3	20	No		drainageway

Appendix E Section Will 04

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
UW04SW-11	20	No	NA	bare area in field
W04SW-12-S1	20	Yes	0.8	tiled drainageway
W04SW-12-S2	20	Yes	0.6	
UW04SW-13	NA	NA	NA	Photo E
W04SW-14-S1	22	Yes	4.0	
W04SW-14U-S2	24	Yes	4.9	
BWC-W04a	NA	NA	12.4	BWC-W04 soil points are for areas a, b & c
BWC-W04b	NA	NA	7.2	BWC-W04 soil points are for areas a, b & c
BWC-W04c	NA	NA	1.5	BWC-W04 soil points are for areas a, b & c
BWC-W04-S1	20	Yes	NA	
BWC-W04U-S2	20	No	NA	

NA = not applicable



Inaugural South Suburban Airport Site:

Locale: W04SE1a

Date: October 6, 2008 1 hours

By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SEla.inv

TRIPRA 0 TRIFOLIUM PRATENSE

FLORIST	IC QUALITY DATA	Native	2	28.6%	5	Adven	tive	e 5	71.4%	
2 NA	TIVE SPECIES	Tree	0	0.0%	5	Tree		0	0.0%	
7 T	otal Species	Shrub	0	0.0%	ģ	Shrub		0	0.0%	
0.0 NA	TIVE MEAN C	W-Vine	0	0.0%			е	0	0.0%	
0.0 W	/Adventives	H-Vine	0	0.0%	5	H-Vin	е	0	0.0%	
	TIVE FQI	P-Forb	0	0.0%		P-For	b	2	28.6%	
	/Adventives	B-Forb	0	0.0%		B-For		0	0.0%	
	TIVE MEAN W	A-Forb	1	14.3%			-	0	0.0%	
	/Adventives	P-Grass		0.0%				3	42.9%	
AVG: Fa	culative	A-Grass	1	14.3%				0	0.0%	
		P-Sedge	0	0.0%			_	0	0.0%	
		A-Sedge	0	0.0%		A-Sed	ge	0	0.0%	
		Cryptogam	0	0.0%	5					
ACRONYM	C SCIENTIFIC NAME				W	WETNESS	PHY	SIOGNOMY	COMMON	NAME
AMBARE	O Ambrosia artemisiif	olia elatior			3	FACU	Nt	A-Forb	COMMON	RAGWEED
BROINE	0 BROMUS INERMIS				5	UPL	Ad	P-Grass	HUNGAR	IAN BROME
ECHCRU	O Echinochloa crusgal	.li			-3	FACW	Nt	A-Grass	BARNYAI	RD GRASS
FESELA	O FESTUCA ELATIOR				2	FACU+	Ad	P-Grass	TALL FI	ESCUE
PHAARU	O PHALARIS ARUNDINACE	A			-4	FACW+	Ad	P-Grass	REED CA	ANARY GRASS
TAROFF	0 TARAXACUM OFFICINAL	E			3	FACU	Ad	P-Forb	COMMON	DANDELION

5 UPL Ad P-Forb RED CLOVER

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-1a X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tiled drainageway adjacent to excavated, channelized waterway (Black Walnut Creek) VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** Ambrosia artemisiifolia **FACU** HERB 10 8. Bromus inermis **HERB** 3. UPL 15 9. Festuca elatior UPL **HERB** 15 10. --__ 5. Trifolium repens FACU+ **HERB** 15 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 25% Remarks: Hydrophytic vegetation is present but not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Drummer silty clay loam Map Unit Name: Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 5/4 common prominent 10YR common prominent silty clay loam, moist, friable 0 A1 2/1 10YR 5/8 oxidized rhizospheres 12 A2 10YR 3/1 7.5YR 5/8 distinct silty clay loam, moist, friable many 12 10YR 17 В1 5/3 NA NA NΑ NΑ silty sand, Moist friable 20 B2 17 10YR 5/3 NΑ NΑ NΑ NA sandy clay, moist friable 10YR 7.5YR 5/8 common distinct sandy clay, moist friable 21 В 2/1 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (A16) Coast Prairie Redox (S4) Sandy Gleyed Matrix (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Strong hydric indicators and evidence of soil profile disturbance WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland. Delineated wetland area includes only the wettest central portion of tiled drainageway.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-1a X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway adjacent to an excavated, channelized waterway (Black Walnut Creek). VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Festuca elatior UPL **HERB** Taraxacum officinale **FACU** HERB 10 8. Bromus inermis UPL 3. **HERB** 40 9. 4. 10. __ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Field tile installation within last five years; tile effectively alters hydrology. SOILS Map Unit Name: Drummer silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 Α 2/1 5/8 few prominent Sandy Silty Moist, friable 22 A2 10YR 5/2 5YR 5/8 common prominent Silty sand w/trace fine gravel 10YR 22+ В1 4/1 5YR common distinct sandy clay w/trace gravel Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon X (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil profile appears to be disturbed, probably from tile installation **WETLAND DETERMINATION** X No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? X Yes No Yes Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W04SE1b

Locale: W04SE1b
Date: October 6, 2008 2 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE1b.inv

26 32 2.6 2.1 13.3 12.0 -2.5 -2.0		Native Tree Shrub W-Vine H-Vine P-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	0 13 0 0 4 0 4	81.3% 6.3% 3.1% 3.1% 0.0% 40.6% 0.0% 0.0% 12.5% 0.0% 12.5% 0.0% 3.1%	Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	0 e 0 0 b 1 b 0 b 1 ss 3 ss 1	9.4% 3.1% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	O Asclepias syriaca			5	UPL	Nt P-Forb	COMMON MILKWEED
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CYPESC	0 Cyperus esculentus			-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
EPICOL	3 Epilobium coloratu	m		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense			0	FAC	Cryptogam	HORSETAIL
FRAVIR	1 Fragaria virginian	a		1	FAC-	Nt P-Forb	WILD STRAWBERRY
GEULAT	2 Geum laciniatum tr	ichocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTOR	4 Juncus torreyi			-3	FACW	Nt P-Forb	TORREY'S RUSH
LEEORY	4 Leersia oryzoides			-5	OBL	Nt P-Grass	RICE CUT GRASS
LEEVIR	7 Leersia virginica			-3	FACW	Nt P-Grass	WHITE GRASS
LYCAME	5 Lycopus americanus			-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
PHAARU	0 PHALARIS ARUNDINAC	EA		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites austral	is		-4	FACW+	Nt P-Grass	COMMON REED
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALAMY	5 Salix amygdaloides			-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens			-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SCICYP	6 Scirpus cyperinus			-5	OBL	Nt P-Sedge	WOOL GRASS
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL

SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE
XANSTR	0 XANTHIUM STRUMARIUM	0 FAC	Ad A-Forb	COCKLEBUR

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke State: Illinois Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-1b X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: A tiled, excavated drainageway runs through area. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 100 7. 2. Populus deltoides FAC+ TREE 10 8. 3. 9. --4. __ 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Other species present outside of plot are Phragmites australis and Aster simplex **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Landscape position---low point adjacent to cornfield is uncultivated. SOILS Map Unit Name: **Drummer silty clay loam** Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 12 Α 10YR 3/1 NA NA NA NA Moist, friable, Silty clay loam. Roots present 12 20 A2 10YR 3/1 10YR 2/1 distinct Moist, friable, Silty clay many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Redox masked by dark soil colors. Strong vegetation and hydrology indicators. WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Community ID: Upland Do Normal Circumstances Exist On The Site? Yes X No Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W04SE-1b Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Point is in corn field An excavated, tiled drainageway is adjacent VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. ----9. 4. --__ 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is not dominant. Successful corn crop. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Tiled drainageway is adjacent. SOILS Map Unit Name: **Drummer silty clay loam** Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Typic Haplaquoll** No X Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 12 Α 10YR 3/2 10YR common distinct Moist, friable, Silty clay loam 12 18 A2 10YR 2/2 10YR distinct Moist, friable, Silty clay loam common 10YR 3/2 common distinct 18 21 В1 10YR 4/4 10YR prominent Moist, firm silty clay Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck wetland hydrology must be present. (F3) Depleted Matrix (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil profile has a buried horizon of darker soil below top layer. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.

Site: Inaugural South Suburban Airport

Locale: W04SE2a

Locale: W04SE2a
Date: October 6, 2008 1 hours
By: AECOM; T. Radke; R. Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE2a.inv

19 N. 27 2.1 N. 1.4 8.9 N. 7.5 -0.5 N.	TIC QUALITY DATA ATIVE SPECIES Total Species ATIVE MEAN C W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W W/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	19 3 4 2 0 5 0 4 1 0 0	70.4% 11.1% 14.8% 7.4% 0.0% 18.5% 0.0% 14.8% 3.7% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For A-Gra A-Gra P-Sed A-Sed	1 0 e 1 e 0 0 0 2 0 1 0 0 0 0 5 5 2 5 5 1 1 ge 0 0	29.6% 3.7% 0.0% 3.7% 0.0% 7.4% 3.7% 0.0% 7.4% 3.7% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACARHO	0 Acalypha rhomboide	a		3	FACU	Nt A-Forb	THREE-SEEDED MERCURY
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisii	folia elation		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	O PHALARIS ARUNDINAC	EA		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila			-3	FACW	Nt A-Forb	CLEARWEED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniens	is		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	;		5	UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra			-5	OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensi	.s		-2	FACW-	Nt Shrub	ELDERBERRY
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA			0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	L		3	FACU	Nt P-Forb	TALL GOLDENROD
SONULI	0 SONCHUS ULIGINOSUS	;		1	FAC-	Ad P-Forb	COMMON SOW THISTLE
TYPLAT	1 Typha latifolia			-5	OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VERURU	5 Verbena urticifoli	.a		5	UPL	Nt P-Forb	HAIRY WHITE VERVAIN

Site: Inaugural South Suburban Airport
Locale: W04SE2b
Date: October 7, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE2b.inv

FLORIST	IC QUALITY DATA	Native	2	22.2%	Adven	tive 7	77.8%
2 NA	TIVE SPECIES	Tree	0	0.0%	Tree		0.0%
9 T	otal Species	Shrub	1	11.1%	Shrub	-	0.0%
		W-Vine	0	0.0%	W-Vine		0.0%
		H-Vine	0	0.0%	H-Vin		0.0%
	TIVE FQI		0		P-For		0.0%
	/Adventives			0.0%	B-For		11.1%
		A-Forb	1	11.1%	A-For		0.0%
		P-Grass		0.0%	P-Gra		44.4%
AVG: Fa	c. Wetland	A-Grass	0	0.0%	A-Gra		22.2%
		P-Sedge	0		P-Sed	J	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	EA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/07/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke Illinois State: Do Normal Circumstances Exist On The Site? **X** Yes No Community ID: Wetland complex Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-2 X Yes Is The Area A Potential Problem Area? Yes X No Plot ID: (If yes, define below.) Remarks: Grassed, tiled waterway tributary to BWC VEGETATION Dominant Species (50/20 Rule) Stratum % Cover Species Name Ind.Status Species Name Ind. Status <u>Stratum</u> % Cover Phalaris arundinacea 7. FACW+ Festuca elation FACU+ HERB 2. 15 8. 3. Poa pratensis FAC-**HERB** 30 9. ----4. Agrostis alba **FACW** HERB 15 10. Setaria glauca FAC HERB 15 11. Salix interior OBL SHRUB 15 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is dominant using the FAC neutral test. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: 20 (in.) X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? **X** Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, and other soil characteristics. Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast Depth 0 10 10YR 2/1 10YR 7/6 many prominent Moist, friable silty loam 10YR 10 18 A2 3/1 10YR 7/6 prominent Moist, friable silty loam 10YR common prominent gravelly, disturbed by tile installation 5/1 common prominent very bottom is moist firm sandy clay common prominent Moist, friable silty loam 10YR 6/8 18 20 В 10YR 3/1 10YR 7/6 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (S6) Stripped Matrix (A3) Black Histic Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. Version 6.0 (NRCS, 2006) (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. **WETLAND DETERMINATION** No Hydric Soils Present? X Yes Hydrophytic Vegetation Present? X Yes Nο Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/07/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-2 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Grassed, tiled waterway tributary to BWC VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia trifida FAC+ HERB Festuca elatior FACU+ **HERB** 70 8. 2. HFRB 3. Pastinaca sativa UPI 15 9. Setaria faberi FACU+ HERB 5 10. --__ 5. Setaria glauca FAC **HERB** 10 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Typic Haplaquoll** No X Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR common prominent Mottles present below 10" 7/4 0 20 10YR 10YR common faint Moist friable, Silty clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck wetland hydrology must be present. (F3) Depleted Matrix (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SE-4 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Grassed, tiled drainageway VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Trifolium pratense UPL **HERB** Festuca elatior UPL **HERB** 8. Bromus inermis UPL 3. **HERB** --9. Daucus carota UPL **HERB** --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percenages not recorded. Bromus inermis is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken WETLAND DETERMINATION Hydric Soils Present? No soil core taken* Nο Hydrophytic Vegetation Present? X No Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken

Site: Inaugural South Suburban Airport

Locale: W04SE5
Date: October 6, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE5.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
O NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	1	100.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

W WETNESS PHYSIOGNOMY COMMON NAME ACRONYM C SCIENTIFIC NAME

GLYNMX 0 GLYCINE MAX 5 UPL Ad A-Forb SOY BEAN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: PEM No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W04SE-5 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Soybean field; vegetation parameter altered; field tile present. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Glycine max 2. 8. 3. --9. 4. --__ 10. --__ 5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Crop field. Normal circumstances not present. Per farmer, beans planted where too wet to plant in spring. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available X Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Strong evidence of ponding. Per farmer, beans used where spring inundation required late planting. NRCS review. SOILS Map Unit Name: Drummer silty clay loam Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Typic Haplaquoll** X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 20 10YR 2/1 NA NΑ NA Moist, friable, Silty clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present; profile matches mapped hydric soil. Dark matrix masks redox. **WETLAND DETERMINATION** * No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in wetland. New drain tile vent is prominent in field. *Under normal circumstances, wetland vegetation would likely be present.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/06/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W04SE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Corn field with successful crop VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. ----9. 4. --__ 10. --__ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Vegetation parameter is altered; cropfield. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Successful crop. Plot is on slope above wet point. Tile present in adjacent field. SOILS Drummer silty clay loam Map Unit Name: Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 21 A1 10YR 2/1 10YR 4/6 few distinct Silty clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and wetland hydrology must be present. (A10) 2 cm Muck (F3) Depleted Matrix (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SE-6 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field with successful crop. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. --9. --4. --__ 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Jasper loam Series Drainage Class: Well drained Taxonomy (Subgroup): Typic Argiudolls Field Observations Confirm Mapped Type? no soil core collected* No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils not mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core collected. WETLAND DETERMINATION Hydrophytic Vegetation Present? Hydric Soils Present? No soil core taken* Nο X No Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? X No Yes Remarks: This plot is not located in wetland. *Vegetation and hydrology do not meet wetland criteria; no soil core taken.

Project/Site:	Inaugural South Suburban Airport		City/County:	Will County	Sampling Dat	e: <u>5/11/2009</u>
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Poi	nt: W04SE-7
Investigator(s):	T. Radke; M. Hildreth		Section, Tov	vnship, Range	e: Section 4; T33N; R13E	
Landform (hillside,	, terrace, etc.): <u>Drainageway.</u>				Local relief (concave, convex, nor	ie: concave
Slope %:2	Lat: 41.374	477065		Long	g: <u>-87.72886977</u>	Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam				NWI Classification	n: UPL
Are climatic / hydro	ologic conditions on the site typical for this tir	me of year?		Yes	X No	
Are Vegetation	Soil or hydrology X	Significant	ly disturbed?	?	Are "Normal Circumstances" present?	Yes X No
Are Vegetation	Soil or hydrology	_ Naturally p	problematic?		(if needed, explain any answers in Remarks	s.)
SUMMARY OF	FINDINGS - Attach site map show	ing samp	ling point	locations,	transects, important features, etc	•
Hydrophytic Veg Hydric Soils Pres		_ No	<u>X</u>	no core	Is the Sampling Area	es No X
Wetland Hydrolo		No			within a Wetland?	
Remarks: Grassed draina	geway. *Upland vegetation dominant; no	soil core ta	ıken			
VEGETATION	- Use scientific names of plants.					
	·	Absolute	Dominant	Indicator	Dominance Test Worksheet:	
Tree Stratum	(Plot size:)		Species?	Status	Number of Dominant Species	0 (4)
1. <u></u> 2					That Are OBL, FACW, or FAC	0 (A)
3 4					Total Number of Dominant Species Across All Strata:	2 (B)
5						
	Total Cover:	:			Percent of Dominant Species	
Sapling/Shrub St 1	tratum (Plot size:)				That Are OBL, FACW, or FAC:	(A/B)
2					Prevalence Index Worksheet:	
3. <u></u> 4. 					Total % Cover of Multiply by OBL species x 1 =	<u>/:</u> 0
5					FACW species x 2 =	0
	Total Cover:	:			FAC species x 3 =	0
Herb Stratum	(Plot size:)				FACU species x 4 =	0
1. Bromus		80	Y	UPL	UPL species x 5 =	0 (7)
2. <u>Festuca</u> 3	elatior	20	<u>N</u>	FACU	Column Totals(A)	(B)
4					Prevalence Index = B/A =	#DIV/0!
5. <u></u> 6					Hydrophytic Vegetation Indicators:	
7					Dominance Test is >50%	
8. <u></u> 9. 					Prevalence Index is *3.0* Morphological Adaptations* (Pro	vide supporting
10					data in remarks or on a separate	
	Total Cover:	100			Problematic Hydrophytic Vegetat	ion (Explain)
Woody Vine Stra	atum (Plot size:)				*Indicators of hydric soil and wetland hyd	rology must be present.
1. <u></u> 2. <u></u>					Hydrophytic	
	Total Cover:	:			Vegetation Your Present?	es NoX
Remarks: (Include	de photo numbers here or on a separate she	eet.)				

US Army Corps of Engineers

SOIL Sampling Point: W04SE-7 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Depth Matrix Loc** Texture (Inches) *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix Hvdric Soil Indicators: Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present? *** No Yes Remarks: Hydric soils not mapped. *Soil core not collected, because wetland vegetation and hydrology absent. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10 Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? Depth (inches): Water Table Present? No X Depth (inches): Saturation Present? Depth (inches): Wetland Hydrology Present? No Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Grassed waterway dominated by upland veg between cultivated fields. Area is an NRCS 2008 polygon.

Project/Site:	Inaugural South Suburban Airport		City/County:	Will County	Sampling Date: <u>5/11/2009</u>
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W04SE-8
Investigator(s):	T. Radke; M. Hildreth		Section, Tow	vnship, Range	e: Section 4; T33N; R13E
Landform (hillside,	, terrace, etc.): slope				Local relief (concave, convex, none: Concave
Slope %:5	Lat: 41.372	76701		Long	g: <u>-87.72997929</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Ozaukee silty clay loam, 6-12% slopese	eroded			NWI Classification: UPL
Are climatic / hydro	ologic conditions on the site typical for this tim	ne of year?		Yes	X No
Are Vegetation	Soil or hydrology Signif	cantly distu	ırbed?		Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology Natur	rally problen	natic?		(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showi	ng samp	ling point	locations,	transects, important features, etc.
Hydrophytic Veg Hydric Soils Pres Wetland Hydrolo	sent? Yes	No No No	X * X	No core	Is the Sampling Area Yes NoX
Plot is on steep s		land hydro	logy are abs	sent.	
VEGETATION	- Use scientific names of plants.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum 1	(Plot size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC 0 (A)
2. <u></u> 3					
4 5					Total Number of Dominant Species Across All Strata:(B)
5. <u></u>	Total Cover:				Percent of Dominant Species
Sapling/Shrub St	tratum (Plot size:)				That Are OBL, FACW, or FAC:(A/B)
2. <u></u> 3					Prevalence Index Worksheet: Total % Cover of Multiply by:
4					OBL species x 1 = 0
5. <u></u>					FACW species x 2 =0
	Total Cover:				FAC species x 3 =0
Herb Stratum 1. Bromus	(Plot size:)	100	Υ	UPL	FACU species
2.					Column Totals (A) 0 (B)
3. <u></u> 4					Prevalence Index = B/A = #DIV/0!
5. <u></u> 6. <u></u>					Hydrophytic Vegetation Indicators:
7. <u></u> 8. <u></u>					Dominance Test is >50% Prevalence Index is *3.0*
9. <u></u> 10. 					Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
	Total Cover:	100			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	atum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
2					Hydrophytic
	Total Cover:				Vegetation Yes
	de photo numbers here or on a separate she top/side slope of steep hill. This is proba		ily-erodable	Land (HEL)	conservation feature.

US Army Corps of Engineers

SOIL Sampling Point: W04SE-8

epth	Matrix			Redox Features				
Inches)	Color (moist)	%	Color (moist)		e* Loc**	Texture	Remarks	
							 -	
pe: C=Concentrat	ion, D=Depletion, RN	M=Reduced Mat	rix, CS=Cove	red or Coated Sand G	Grains. **I	ocation: PL=Pore Lining, M=	=Matrix	
dric Soil Indicato	rs:					Indicators for Problema	tic Hydric Soils***:	
1 lists 1 (A4)			C 4 - Cl	and Matrix (CA)		Const Duniting Daday (A	16)	
Histosol (A1) Histic Epipedon (A)	۵2۱	_	Sandy Gley Sandy Red	yed Matrix (S4)		Coast Prairie Redox (A Iron-Manganese Mass		
Black Histic (A3)	72)	_	Stripped M			Other (Explain in Rem		
Hydrogen Sulfide		_		cky Mineral (F1)			,	
_ Stratified Layers				eyed Matrix (F2)				
2 cm Muck (A10)	Oark Surface (A11)	_		Matrix (F3) ·k Surface (F6)				
Thick Dark Surface		_		Dark Surface (F7)	**	*Indicators of hydrophytic ve	getation and	
Sandy Mucky Min		_		pressions (F8)		wetland hydrology must be		
5 cm Mucky Peat	or Peat (S3)					unless disturbed or proble	ematic.	
strictive Layer (if	observed):							
Type:								
Depth (inches):						Hydric Soils Present?*	Yes	No
	pped. *Wetland v	egetation and	hydrology a	are not present, so	no soil cor	e collected.		
Upland soil ma	pped. *Wetland v	egetation and	hydrology a	are not present, so	no soil cor	e collected.		
Upland soil ma		egetation and	hydrology a	are not present, so	no soil cor	e collected.		
Upland soil ma YDROLOGY etland Hydrology	Indicators:			are not present, so	no soil cor	e collected. Secondary Indicators (minir	num of two required)	
Upland soil may YDROLOGY etland Hydrology	Indicators:		that apply)		no soil core	Secondary Indicators (minir	, ,	
YDROLOGY etland Hydrology mary Indicators (mi _ Surface Water (A	Indicators: nimum of one is requ		that apply) Water-Stai	ined Leaves (B9)	no soil core	Secondary Indicators (mining Surface Soil Cracks (Bi	6)	
Upland soil may YDROLOGY etland Hydrology	Indicators: nimum of one is requ		that apply) Water-Stai Aquatic Fa True Aqua	ined Leaves (B9) iuna (B13) itic Plants (B14)	no soil core	Secondary Indicators (minir	6) 0	
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	Indicators: nimum of one is requal 1) 1 (A2)		that apply) Water-Stai Aquatic Fa True Aqua Hydrogen	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1)		Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8)	6) 0 ole (C2)	
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	Indicators: nimum of one is requal (A2) (S2) (S3)		that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R	ined Leaves (B9) iuna (B13) itic Plants (B14) Sulfide Odor (C1) khizospheres on Living		Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A	6) 0 ole (C2) verial Imagery (C9)	
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3)	Indicators: nimum of one is required: 1) 1 (A2) 0 (S5 (B2) 8)		that apply,' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of	ined Leaves (B9) iuna (B13) Sulfide Odor (C1) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4)	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	Indicators: nimum of one is required: (1) (A2) (ss (B2) (s) (t (B4)		that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence of Recent Iro	ined Leaves (B9) iuna (B13) itic Plants (B14) Sulfide Odor (C1) khizospheres on Living	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A	6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology mary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5	Indicators: nimum of one is required: (1) (A2) (ss (B2) (s) (t (B4)	uired; check all	that apply', Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence c Recent Iro Thin Muck	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology mary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible	Indicators: nimum of one is required: (A2) (S2) (S3) (B2) (B4) (B4)	uired; check all	that apply) Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence c Recent Iro Thin Muck Gauge or N	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7)	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology mary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate	Indicators: nimum of one is required: 1) 1 (A2) 25 (B2) 31 t (B4) 21 e on Aerial Imagery (uired; check all	that apply) Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence c Recent Iro Thin Muck Gauge or N	ined Leaves (B9) Juna (B13) Juna (B14) Sulfide Odor (C1) Shizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7) Well Data (D9)	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology mary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Algal Mat or Crus Iron Deposits (B5) Inundation Visible Sparsely Vegetate	Indicators: nimum of one is required: (A2) (A2) (B2) (B4) (B4) (Ca) (C	uired; check all	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence c Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches):	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology mary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate eld Observations:	Indicators: nimum of one is required: (A2) (S2) (B2) (B4) (C) (C) (C) (C) (C) (C) (C) (Lired; check all	that apply', Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches):	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate eld Observations: urface Water Present ater Table Present?	Indicators: nimum of one is required: (A2) (S2 (B2) (B3) (B4) (C) (C) (C) (C) (C) (C) (C) (uired; check all	that apply', Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3)	Secondary Indicators (minir Surface Soil Cracks (Bi Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (6) 0 0 ole (C2) verial Imagery (C9) D2)	No 2
YPDROLOGY Vetland Hydrology Imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate Vedeld Observations: Urface Water Present Vater Table Present? Paturation Present? Includes capillary fring	Indicators: nimum of one is required: (A2) (A2) (B4) (C) (C) (C) (C) (C) (C) (C) ((B7) (B8) No	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) on Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No <u>}</u>
YDROLOGY Vetland Hydrology Imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate eld Observations: urface Water Present ater Table Present? aturation Present?	Indicators: nimum of one is required: (A2) (A2) (B4) (C) (C) (C) (C) (C) (C) (C) ((B7) (B8) No	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) in Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No_
YDROLOGY etland Hydrology imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate eld Observations: irface Water Present ater Table Present? ituration Present?	Indicators: nimum of one is required: (A2) (A2) (B4) (C) (C) (C) (C) (C) (C) (C) ((B7) (B8) No	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) in Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No_
WDROLOGY Vetland Hydrology Imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B5 Algal Mat or Crus Iron Deposits (B5 Inundation Visible Sparsely Vegetate eld Observations: urface Water Present ater Table Present? ater Table Present? cludes capillary fring escribe Recorded Date	Indicators: nimum of one is required: (A2) (A2) (B4) (C) (C) (C) (C) (C) (C) (C) ((B7) (B8) No	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) in Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No <u>i</u>
YDROLOGY [etland Hydrology imary Indicators (mi) Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B3 Inundation Visible Sparsely Vegetate eld Observations: urface Water Present ater Table Present? indudes capillary fring escribe Recorded Date	Indicators: nimum of one is required: (A2) (A2) (B3) (B4) (C) (C) (C) (C) (C) (C) (C) (uired; check all	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) in Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No_
WDROLOGY Vetland Hydrology Imary Indicators (mi Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Algal Mat or Crus Iron Deposits (B3) Inundation Visible Sparsely Vegetate eld Observations: urface Water Present ater Table Present? Includes capillary fring escribe Recorded Date	Indicators: nimum of one is required: (A2) (A2) (S5 (B2) (S6) (S6) (S7) (S8) (S8) (S8) (S8) (S8) (S8) (S8) (S8	uired; check all	that apply' Water-Stai Aquatic Fa True Aqua Hydrogen Oxidized R Presence o Recent Iro Thin Muck Gauge or V Other (Exp	ined Leaves (B9) iuna (B13) tic Plants (B14) Sulfide Odor (C1) thizospheres on Living of Reduced Iron (C4) in Reduction in Tilled Surface (C7) Well Data (D9) olain in Remarks) Depth (inches): Depth (inches):	g Roots (C3) Soils (C6)	Secondary Indicators (minir Surface Soil Cracks (B Drainage Patterns (B1 Dry-Season Water Tat Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 0 ole (C2) verial Imagery (C9) D2)	No_

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	Samp	ling Date: <u>5/11/</u> 2	2009	
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Samp	ling Point: W045	E-9 SC-3	
Investigator(s):	T. Radke; M. Hildre	th	;	Section, Tow	nship, Range	e: Section 4; T33N; R13E			
Landform (hillside,	terrace, etc.):	drainageway				Local relief (concave, conv	ex, none: Conc	ave	
Slope %:1		Lat: 41.376	23128		Long	g: <u>-87.73072228</u>	Da	atum: NAD83 II	linois East
Soil Unit Name:	Ashkum silty clay lo	oam				NWI Clas	sification: UPL		
Are climatic / hydro	ologic conditions on the	e site typical for this tim	ne of year?		Yes	XNo			
Are Vegetation	X Soil	or hydrology X	Significantly	/ disturbed?		Are "Normal Circumstances" preser	nt?	Yes	NoX_
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?		(if needed, explain any answers in F	Remarks.)		
SUMMARY OF	FINDINGS - Attac	ch site map showi	ng sampl	ing point	ocations,	transects, important feature	es, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	ent?	Yes Yes Yes	No No No	Х Х Х		Is the Sampling Area within a Wetland?	Yes	No	<u>x</u>
Vegetation and h NRCS slide review	with field tile visible or ydrology indicators are v; sparse crop in 2008	e weak. 8.	s visits in O	ct. 2008 (S1	and S2) aba	Indoned due to weather and recir	ding of access	permission.	
VEGETATION	- 036 3616111116 116		Absolute	Dominant	Indicator	Dominance Test Worksheet:			
Tree Stratum 1	(Plot size:)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC	1	(A)	
2. <u></u> 3						Total Number of Dominant			
4. <u></u> 5						Species Across All Strata:	2	(B)	
U		Total Cover:				Percent of Dominant Species			
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC:	50	%(A/B)	
2. 3						Prevalence Index Worksheet: Total % Cover of Mo	ultiply by:		
4						OBL species	(1 = (
5. <u></u>		Total Cover:				· —	(2 = <u>(</u> 3 = 3		
Herb Stratum	(Plot size:					· —	(4 = 4		
	ia artemisiifolia odium album		10	<u> </u>	FACU FAC	UPL species Column Totals (A)	(5 = 7		
3	odium album		10		FAC			``	
4. <u></u> 5						Prevalence Index = E	3/A = <u>3.</u>	5	
6. <u></u> 7						Hydrophytic Vegetation Indicat Dominance Test is >50%	ors:		
8. <u></u>						Prevalence Index is *3.0*			
9. <u></u> 10						Morphological Adaptation data in remarks or on a se		porting	
		Total Cover:	20			Problematic Hydrophytic		lain)	
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetla	and hydrology m	ust be present.	
1. <u></u> 2. <u></u>		Total Cover:				Hydrophytic Vegetation Present?	Yes	No	<u>x</u>
Remarks: (Include	de nhoto numbers ber	e or on a separate she	et)						
Sparsely vegetat	'	o or on a soparate one	o,						

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SOIL Sampling Point: W04SE-9 SC-3

		-					absence of indicators.)	
Depth	Matrix		Re	edox Featur	es			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-4	10YR 3/2	100					Clay loam	moist
4-15	10YR 5/4	85	10YR 6/8	15	С	PL	Clay loam	Moist; some organic streaking
15-20	10YR 5/4	80	10YR 6/8	10	С	PL	Clay loam	few fine gravel
			10YR 6/2	10		М		
							_	
-								_
*Type: C=Concentra	ation D=Depletion R	M=Reduced I	Matrix CS=Covered	or Coated	Sand Grai	ns **I	ocation: PL=Pore Lining, M=M	
Hydric Soil Indicate		reduced			Jana Gran		Indicators for Problematic	
Histosol (A1)	(42)		Sandy Gleyed)		Coast Prairie Redox (A16	
Histic Epipedon Black Histic (A3)			Sandy Redox Stripped Matr				Iron-Manganese Masses Other (Explain in Remark	
Hydrogen Sulfide			Loamy Mucky	Mineral (F:				,
Stratified Layers 2 cm Muck (A10			Loamy Gleyed)			
· ·	Dark Surface (A11)		Depleted Mat Redox Dark S	. ,				
Thick Dark Surfa	ace (A12)		Depleted Dar	k Surface (F	7)	**	*Indicators of hydrophytic vege	
Sandy Mucky Mi			Redox Depres	ssions (F8)			wetland hydrology must be pr	
5 cm Mucky Pea Restrictive Layer (i							unless disturbed or problem	atic.
Restrictive Layer (i	ii observeu).							
Type:			-				Undria Caila Dresanta	Vaa Na V
Depth (inches): Remarks:			-				Hydric Soils Present?	Yes No <u>X</u>
No redox in up	per layer; lower la	ayer chroma	too high					
LIVEROL OCY								
HYDROLOGY Wetland Hydrology	y Indicators:							
		quired; check	all that apply)				Secondary Indicators (minimu	m of two required)
Primary Indicators (m Surface Water (A	ninimum of one is req	quired; check	Water-Stained		9)		Surface Soil Cracks (B6)	m of two required)
Primary Indicators (m Surface Water (n High Water Tabl	ninimum of one is req	quired; check	Water-Stained	a (B13)			Surface Soil Cracks (B6) Drainage Patterns (B10	, ,
Primary Indicators (m Surface Water (A	ninimum of one is req A1) le (A2)	quired; check	Water-Stained	a (B13) Plants (B14)		Surface Soil Cracks (B6)	, ,
Primary Indicators (m Surface Water (i) High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos	ninimum of one is req A1) le (A2) 1) sits (B2)	quired; check	Water-Stained Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14 fide Odor (Cospheres or) C1) n Living Ro	pots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (i) High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B	ninimum of one is req A1) le (A2) 1) sits (B2) 33)	juired; check	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R	a (B13) Plants (B14 fide Odor (Gospheres or Reduced Iron) C1) n Living Ro n (C4)	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (Amount of the High Water Table of the Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Algal Mat or Cru Iron Deposits (B1)	A1) le (A2) 1) sits (B2) sat) lst (B4)		Water-Stained Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) fide Odor (Cospheres or Reduced Iron) C1) n Living Ro n (C4)	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B1 Algal Mat or Cru Iron Deposits (B1 Inundation Visib	ninimum of one is req A1) le (A2) 1) sits (B2) 33) lst (B4) Joe on Aerial Imagery	(B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel	a (B13) Plants (B14) fide Odor (Coopheres or Reduced Iron Reduction in Inface (C7) Il Data (D9)) C1) n Living Ro n (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B1 Algal Mat or Cru Iron Deposits (B1 Inundation Visib Sparsely Vegeta	ninimum of one is req A1) le (A2) 1) sits (B2) 33) lst (B4) slo on Aerial Imagery ted Concave Surface	(B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su	a (B13) Plants (B14) fide Odor (Coopheres or Reduced Iron Reduction in Inface (C7) Il Data (D9)) C1) n Living Ro n (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (i) High Water Table Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations:	ninimum of one is requal) A1) le (A2) 1) sits (B2) 33) sst (B4) 35) le on Aerial Imagery ted Concave Surface :	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14 fide Odor (Gospheres or Reduced Iron Reduction in Irrface (C7) Il Data (D9) n in Remark) C1) n Living Ro n (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (a) High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B) Algal Mat or Cru Iron Deposits (B) Inundation Visib Sparsely Vegeta Field Observations: Surface Water Presen	A1) le (A2) 1) sits (B2) sit (B4) le on Aerial Imagery ted Concave Surface tt? Yes	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14 fide Odor (Gospheres or Reduced Iron Reduction in Irrface (C7) Il Data (D9) In in Remark Depth (inc) C1) n Living Ron (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (m Surface Water (a) High Water Tabl Saturation (A3) Water Marks (Bi Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta: Field Observations: Surface Water Present?	A1) le (A2) 1) sits (B2) 33) sst (B4) 85) sle on Aerial Imagery ted Concave Surface : at? Yes _ Yes _ Yes _	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14 fide Odor (Gospheres or Reduction in Inface (C7) Il Data (D9) In in Remark Depth (inci-) C1) a Living Ran (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (a) High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B) Algal Mat or Cru Iron Deposits (B) Inundation Visib Sparsely Vegeta Field Observations: Surface Water Presen	A1) le (A2) 11) sits (B2) s33) sst (B4) s5) le on Aerial Imagery ted Concave Surface : tt? Yes _ Yes _ Yes _ Yes _	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sull Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14 fide Odor (Gospheres or Reduced Iron Reduction in Irrface (C7) Il Data (D9) In in Remark Depth (inc) C1) a Living Ran (C4) Tilled Soi	. ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (a) High Water Table Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta' Field Observations: Surface Water Present Water Table Present? Saturation Present?	A1) le (A2) 1) sits (B2) 33) let (B4) 55) let on Aerial Imagery ted Concave Surface the Yes Yes Yes Area 199	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations: Surface Water Presen Water Table Present? (includes capillary frir	A1) le (A2) 1) sits (B2) 33) let (B4) 55) let on Aerial Imagery ted Concave Surface the Yes Yes Yes Area 199	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations: Surface Water Present Water Table Present? (includes capillary frir Describe Recorded Da	A1) le (A2) 1) sits (B2) 33) let (B4) 55) let on Aerial Imagery ted Concave Surface the Yes Yes Yes Area 199	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations: Surface Water Present Water Table Present? (includes capillary frir Describe Recorded Da	A1) le (A2) 11) lists (B2) 333 (B4) 55) sle on Aerial Imagery ted Concave Surface : at? Yes _ Yes _ nge) ata (stream gauge, m	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations: Surface Water Present Water Table Present? (includes capillary frir Describe Recorded Da	A1) le (A2) 1) sits (B2) 33) let (B4) 55) let on Aerial Imagery ted Concave Surface the Yes Yes Yes Area Green	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegeta Field Observations: Surface Water Present Water Table Present? (includes capillary frir Describe Recorded Da	A1) le (A2) 11) lists (B2) 333 (B4) 55) sle on Aerial Imagery ted Concave Surface : at? Yes _ Yes _ nge) ata (stream gauge, m	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No X No X No X	a (B13) Plants (B14) fide Odor (toospheres or Reduced Iron Reduction in Irface (C7) Il Data (D9) In in Remark Depth (inci Depth (inci Depth (inci) C1) Living Ron (C4) Tilled Soi ss) hes): hes):	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))

Site: Inaugural South Suburban Airport

Locale: W04SE10
Date: May 11, 2008 15 minutes
By: AECOM; T. Radke; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W04SE10.inv

FLORISTIC QUALITY DATA	Native	1	100.0%	Adventive	0	0.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.0 NATIVE MEAN W	A-Forb	1	100.0%	A-Forb	0	0.0%
-1.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME

AMBTRI 0 Ambrosia trifida -1 FAC+ Nt A-Forb GIANT RAGWEED

Project/Site:	Inaugural South Subur	ban Airport		City/County:	Will County	Sampling Date: <u>5/11/2009</u>
Applicant/Owner:	Illinois Department of Tra	ansportation				State: Illinois Sampling Point: W04SE-10 SC-1
Investigator(s):	T. Radke; M. Hildreth			Section, Tow	nship, Range	: Section 4; T33N; R13E
Landform (hillside,	terrace, etc.): Slop	е				Local relief (concave, convex, none: Concave
Slope %:2		Lat: 41.375	09383		Long	: <u>-87.7310265</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Ashkum silty clay loam					NWI Classification: FW
Are climatic / hydro	ologic conditions on the site	typical for this tim	ne of year?		Yes	XNo
Are Vegetation	X Soil or hy	/drology X	Significantly	y disturbed?	,	Are "Normal Circumstances" present? Yes NoX
Are Vegetation	Soil or hy	/drology	Naturally p	roblematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach si	te map showi	ng samp	ling point	ocations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent?	Yes X Yes X Yes X	No No No			Is the Sampling Area within a Wetland? Yes X No
Remarks: Cultivated field-	vegetation and hydrolog	y altered. Field	tile presen	t (vent is <50)' away)	
VEGETATION	- Use scientific names	s of plants.				
Tree Stratum 1.	(Plot size:	_)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC(A)
2. <u></u> 3. <u></u>						Total Number of Dominant
4 5						Species Across All Strata:1(B)
Sapling/Shrub St	ratum (Plot size:	Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC:
1. 2. 						Prevalence Index Worksheet:
3. <u></u> 4. <u></u>						Total % Cover of Multiply by: OBL species x 1 =
5. <u></u>		Total Cover:				FACW species
Herb Stratum 1. Ambrosi 2.	(Plot size: a trifida	_)	50	Y	FAC	FACU species
3. 4. <u></u>						Prevalence Index = B/A =
6 7 8 9 10						Hydrophytic Vegetation Indicators: X Dominance Test is >50% X Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
Woody Vino Stra	tum (Diet eizer	Total Cover:	50			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
2		Total Cover:				Hydrophytic Vegetation Yes X No Present? No No
	de photo numbers here or o seedlings amid sparse co		et.)			

US Army Corps of Engineers

SOIL Sampling Point: W04SE-10 SC-1

Profile Description:	(Describe to the	depth needed	to document	the indicate	or or con	firm the	absence of indicators.)			
Depth	Matrix			Redox Featur	·oc					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-8	10YR 2/1	100					Silty clay	moist		
			10\/D 6 /0							
8-20	10YR 6/2	85	10YR 6/8	15	C	M	Silty clay	moist		
	· -						-			
				-						
	-									
*Type: C=Concentrate	tion, D=Depletion, RN	M=Reduced Ma	trix, CS=Covere	d or Coated	Sand Grai	ns. **l	Location: PL=Pore Lining, M	=Matrix		
Hydric Soil Indicate	ors:						Indicators for Problema	ntic Hydric Soils**	**:	
History (A1)			Candy Claye	d Mahmir (C4	`		Const Dunivia Daday (A1C)		
Histosol (A1) Histic Epipedon (Δ2)	_	Sandy Redo	ed Matrix (S4 v (S5))		Coast Prairie Redox (/ Iron-Manganese Mass			
Black Histic (A3)	(AZ)	_	Stripped Ma				Other (Explain in Rem			
Hydrogen Sulfide		_	Loamy Muck	y Mineral (F	1)		` ` '	,		
Stratified Layers		_		ed Matrix (F2	2)					
2 cm Muck (A10) Depleted Below		_	Depleted Ma	itrix (F3) Surface (F6)						
Thick Dark Surfa		_		rk Surface (F6)	- 7)	**:	*Indicators of hydrophytic ve	egetation and		
Sandy Mucky Min		_	Redox Depre		,,		wetland hydrology must be			
5 cm Mucky Pear				, ,			unless disturbed or probl	lematic.		
Restrictive Layer (i	f observed):									
_										
Type: Depth (inches):							Hydric Soils Present?	•	es X	No
Remarks:		·					Tryune sons i resent:	•	<u></u>	
HYDROLOGY										
Wetland Hydrology	Indicators:									
Wedana Hydrology	1110100101									
Primary Indicators (m	inimum of one is requ	uired; check all	that apply)				Secondary Indicators (mini	mum of two require	<u>ed</u>)	
Curfoes Water (/	11)		Water Chain	ad Lanuas (D	0)		Cuntaga Cail Cuagles (F	26)		
Surface Water (A		_	Aguatic Fau	ed Leaves (B na (B13)	9)		Surface Soil Cracks (E Drainage Patterns (B)			
Saturation (A3)	C (12)	_		: Plants (B14)		Dry-Season Water Ta			
Water Marks (B1)	_		ulfide Odor (Crayfish Burrows (C8)) ` ´		
Sediment Depos		_		izospheres o		oots (C3)	X Saturation Visible on			
Drift Deposits (B Algal Mat or Crus		_		Reduced Iro Reduction in		ile (CE)	X Geomorphic Position (FAC-Neutral Test (D5	` '		
Iron Deposits (B		_	Thin Muck S		Tilleu 30i	iis (CO)	TAC-Neutral Test (D3)		
	e on Aerial Imagery ((B7)		ell Data (D9)						
X Sparsely Vegetat	ed Concave Surface ((B8) X	Other (Expla	in in Remark	(s)					
Field Observations:										
Surface Water Present	t? Yes	N	oX	Depth (inc	hes):					
Water Table Present?			o X		hes):					
Saturation Present?			o X	Depth (inc			Wetland Hydrology Pre	sent? Y	es X	No
(includes capillary frin		··		_ Dopan (e					<u> </u>	
Describe Recorded Da					ctions), if	available				
Identified on N	RCS slide review; ι	uncropped are	ea in cultivate	d field.						
Remarks:										
Altered hydrolo	gy. Presence of fie	eld tile confir	med by vent lo	cated <50	downhi	ll from p	lot			

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	Sampling Date: <u>5/11/2009</u>
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sampling Point: W04SE-10 SC-2
Investigator(s):	T. Radke; M. Hildret	h		Section, Tow	nship, Range	Section 4; T33N; R13E
Landform (hillside,	terrace, etc.):	rise				Local relief (concave, convex, none: Concave
Slope %:2		Lat: 41.375	09383		Long	: <u>-87.7310265</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Ashkum silty clay lo	oam				NWI Classification: Upland
Are climatic / hydro	ologic conditions on the	e site typical for this tim	e of year?		Yes	XNo
Are Vegetation	X Soil	or hydrology X	Significantly	y disturbed?	,	Are "Normal Circumstances" present? Yes NoX
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attac	h site map showi	ng sampl	ling point	ocations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent?	Yes Yes	No No No	X X		Is the Sampling Area within a Wetland? Yes NoX
Remarks:		rology altered. Field t	tile presen	t (vent is <50)' away)	
VEGETATION	- Use scientific na	mes of plants.				
Tree Stratum 1.	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC(A)
2. <u></u> 3. <u></u>						Total Number of Dominant
4. <u></u> 5. <u></u>						Species Across All Strata:(B)
Sapling/Shrub St	ratum (Plot size:	Total Cover:				Percent of Dominant Species That Are OBL, FACW, or FAC:
1. 2				:		Prevalence Index Worksheet:
4						Total % Cover of Multiply by:
5. <u></u>		Total Cover:				FACW species
Herb Stratum 1. Ambrosi	(Plot size:)	1	v	FAC	FACU species 1 x 4 = 4 UPL species x 5 = 0
2. Ambrosi	ia artemisiifolia		1	<u>Y</u>	FACU	Column Totals 2 (A) 7 (B)
3. 4						Prevalence Index = B/A = 3.5
6 7 8 9						Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in smarks as an apparate sheet)
10		Total Cover:	2			data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
2		Total Cover:				Hydrophytic Vegetation Yes
Remarks: (Include Only two species	•	e or on a separate shee	et.)			

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SOIL Sampling Point: W04SE-10 SC-2

epth nches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-7	10YR 3/1	100	(Silty clay	moist	
7-20	10YR 6/2	85	10YR 6/8	15			Silty clay	moist	
7-20	1018 0/2	05	101K 0/6			141	Silty Clay	HIOISE	
	_								
				_					
ype: C=Concentration		M=Reduced N	Matrix, CS=Covere	d or Coated S	Sand Grain	ıs. **L	ocation: PL=Pore Lining	•	
dric Soil Indicator	s:						Indicators for Proble	ematic Hydric Soils***:	
Histosol (A1)				d Matrix (S4)			Coast Prairie Redo		
Histic Epipedon (A	2)		Sandy Redox				Iron-Manganese N		
Black Histic (A3) Hydrogen Sulfide ((14)		Stripped Mat	trix (S6) sy Mineral (F1	`		Other (Explain in	Remarks)	
Stratified Layers (/	` '			ed Matrix (F2)	•				
2 cm Muck (A10)	45)		Depleted Ma		,				
Depleted Below Da	ark Surface (A11)		Redox Dark						
Thick Dark Surface	` '			rk Surface (F	7)	**	*Indicators of hydrophyti	3	
Sandy Mucky Mine	` '		Redox Depre	essions (F8)			wetland hydrology mus		
5 cm Mucky Peat of						-	unless disturbed or p	roblematic.	
estrictive Layer (if	observed):								
Typor									
Type:									
Depth (inches):	to wetland point						Hydric Soils Present	? Yes <u>X</u>	No
Depth (inches):emarks:	to wetland point						Hydric Soils Present	? Yes <u>X</u>	<u>No</u>
Depth (inches):emarks: Soil very similar YDROLOGY							Hydric Soils Present	? Yes <u>X</u>	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I	indicators:		all that apply,					Yes X	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I	indicators:			ed Leaves (BS	9)			ninimum of two required)	No_
Depth (inches):emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table	indicators: imum of one is req		Water-Staine	na (B13)	•		Secondary Indicators (I	minimum of two required) s (B6) (B10	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (AI High Water Table Saturation (A3)	indicators: imum of one is req		Water-Staine Aquatic Faur True Aquatic	na (B13) : Plants (B14))		Secondary Indicators (i Surface Soil Crack Drainage Patterns Dry-Season Water	ninimum of two required) s (B6) (B10 Table (C2)	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	Indicators: imum of one is req) (A2)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su	na (B13) : Plants (B14) ulfide Odor (C) (1)	oots (CZ)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows	ninimum of two required) s (B6) (B10 Table (C2) (C8)	No_
Depth (inches):emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits	Indicators: imum of one is req (A2)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi	na (B13) c Plants (B14) ulfide Odor (C zospheres on) (1) I Living Ro	pots (C3)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible	ninimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9)	<u>No</u>
Depth (inches):emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	indicators: imum of one is req) (A2) s (B2)		Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) Plants (B14) Ulfide Odor (C zospheres on Reduced Iron) C1) Living Ro n (C4)	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	No_
Depth (inches): emarks: Soil very similar IYDROLOGY //etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (A3) Water Marks (A3) Water Marks (A3) John (A3) Water Marks (A3) Algal Mat or Crust	imum of one is req) (A2) s (B2) (B4)		Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron	na (B13) Plants (B14) Ulfide Odor (C zospheres on Reduced Iron Reduction in) C1) Living Ro n (C4)	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	<u>No</u>
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	imum of one is req) (A2) s (B2) (B4)	uired; check	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of	na (B13) c Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in urface (C7)) C1) Living Ro n (C4)	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	<u>No</u>
Depth (inches): emarks: Soil very similar EYDROLOGY Vetland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	imum of one is req) (A2) s (B2)) (B4)	uired; check	Water-Staine Aquatic Faur True Aquatic Hydrogen Shi Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) c Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in urface (C7)) (1) I Living Ro I (C4) Tilled Soi	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	<u>No</u>
Depth (inches): emarks: Soil very similar EYDROLOGY Vetland Hydrology I imary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate	imum of one is req) (A2) s (B2) (B4) on Aerial Imagery	uired; check	Water-Staine Aquatic Faur True Aquatic Hydrogen Shi Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) c Plants (B14) ulfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9)) (1) I Living Ro I (C4) Tilled Soi	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate ield Observations:	imum of one is req) (A2) s (B2)) (B4) on Aerial Imagery d Concave Surface	uired; check (B7) (B8)	Water-Staine Aquatic Faur True Aquatic Hydrogen Shi Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We	na (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks) C1) I Living Ro I (C4) Tilled Soi	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	No_
Depth (inches): emarks: Soil very similar YDROLOGY //etland Hydrology I mary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate leid Observations: urface Water Present?	imum of one is req) (A2) s (B2)) (B4) on Aerial Imagery d Concave Surface	uired; check (B7) (B8)	Water-Staine Aquatic Faur True Aquatic Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	na (B13) Plants (B14) Ilfide Odor (C zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2)	No_
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I rimary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate ield Observations: urface Water Present? /ater Table Present?	imum of one is req) (A2) (B2) (B4) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _	uired; check (B7)	Water-Staine Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or We Other (Expla	na (B13) Plants (B14) Iffide Odor (County of County of C	c1) Living Ro (C4) Tilled Soi ss) ness): ness):	. ,	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2) (D5)	
Depth (inches): emarks: Soil very similar IYDROLOGY //etland Hydrology I rimary Indicators (min Surface Water (AI High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Iron Deposits (B7) Iron Dep	indicators: imum of one is req) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	uired; check	Water-Stains Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) Iffide Odor (Ci zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks Depth (inch Depth (inch	n (C4) Tilled Soi ss) nes): nes):	ls (C6)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi FAC-Neutral Test	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2) (D5)	
Depth (inches): emarks: Soil very similar Soil very similar VPDROLOGY Vetland Hydrology I imary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate ield Observations: urface Water Present? fater Table Present? aturation Present?	indicators: imum of one is req) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	uired; check	Water-Stains Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) Iffide Odor (Ci zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks Depth (inch Depth (inch	n (C4) Tilled Soi ss) nes): nes):	ls (C6)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi FAC-Neutral Test	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2) (D5)	
Depth (inches): emarks: Soil very similar IYDROLOGY /etland Hydrology I mary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate ield Observations: urface Water Present? /ater Table Present? aturation Present? ncludes capillary fring escribe Recorded Data Upland point is u	indicators: imum of one is req) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	uired; check	Water-Stains Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) Iffide Odor (Ci zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks Depth (inch Depth (inch	n (C4) Tilled Soi ss) nes): nes):	ls (C6)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi FAC-Neutral Test	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2) (D5)	
Poepth (inches): Pemarks: Soil very similar YDROLOGY Tetland Hydrology I Imary Indicators (min Surface Water (AI High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Sparsely Vegetate Sparsely Vegetate High Water Present? Algal Mat or Crust Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible Sparsely Vegetate Sparsely Vegetate High Observations: For Carlot Carlot Carlot Sparsely Vegetate High Observations: For Carlot Carlot Sparsely Vegetate High Observations: For Carlot Sparsely Vegetate For Carlot For	indicators: imum of one is req) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	uired; check	Water-Stains Aquatic Faur True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) Plants (B14) Iffide Odor (Ci zospheres on Reduced Iron Reduction in urface (C7) ell Data (D9) in in Remarks Depth (inch Depth (inch	n (C4) Tilled Soi ss) nes): nes):	ls (C6)	Secondary Indicators (I Surface Soil Crack Drainage Patterns Dry-Season Water Crayfish Burrows Saturation Visible Geomorphic Positi FAC-Neutral Test	minimum of two required) s (B6) (B10 Table (C2) (C8) on Aerial Imagery (C9) on (D2) (D5)	

Project/Site:	Inaugural South Suburban Airport			City/County: Will			Sampling Date: <u>5/11/09</u>			
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois	Sampling Point:	W04SE-11		
Investigator(s):	T. Radke; M. Hildre	th		Section, Tow	nship, Range	e: Section 4; T33N; R13E	<u> </u>			
Landform (hillside,	terrace, etc.):	terrace				Local relief (cond	cave, convex, none	: Concave		
Slope %: 2		Lat: 41.373	43153		Long	g: <u>-87.73351265</u>		Datum	: NAD83 III	inois East
Soil Unit Name:	Markham silt loam	(Mollic Oxyaquic Hap	ludalfs)	moderately	well drained		NWI Classification:	: Upland		
Are climatic / hydro	ologic conditions on th	e site typical for this tim	e of year?		Yes	X No				
Are Vegetation	Soil	or hydrology X	Significant	ly disturbed?		Are "Normal Circumstance	es" present?	Yes	sX_	No
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?		(if needed, explain any an	swers in Remarks.))		
SUMMARY OF	FINDINGS - Attac	ch site map showi	ng sampl	ling point l	ocations,	transects, important	t features, etc.			
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog Remarks: Tiled, gr	ent?	Yes Yes Yes lo soil core taken.	No	X * X		Is the Sampling Area within a Wetland?	Yes	3	_ No	<u>x</u>
VEGETATION -	· Use scientific na	ames of plants.								
Tree Stratum 1	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Work Number of Dominant Sp That Are OBL, FACW, of	pecies	0	(A)	
2									_(A)	
3 4						Total Number of Domina Species Across All Strat		1	_(B)	
5. <u></u>		Total Cover:				Percent of Dominant Sp	pecies			
Sapling/Shrub Str	ratum (Plot size:)				That Are OBL, FACW, o	or FAC:	0%	_(A/B)	
2						Prevalence Index Wor				
3. <u></u> 4. <u></u>						Total % Cover of OBL species	<u>Multiply by:</u> x 1 =	0	_	
5. <u></u>						FACW species	x 2 =	0	=	
Herb Stratum	(Plot size:	Total Cover:				FAC species FACU species	x 3 = x 4 =	0	_	
1. Bromus	inermis	/	90	Υ	UPL	UPL species	x 5 =	0	- -	
Taraxacı Festuca	um officinale elatior		<u>5</u>	N	FACU FACU	Column Totals 0	(A)	0	_(B)	
4.						Prevalence	e Index = B/A =	#DIV/0!	_	
5. 6.						Hydrophytic Vegetation				
7. <u></u> 8. 					-	Dominance Tes Prevalence Inde				
9							adaptations* (Providence		ıg	
10. <u></u>		Total Cover:	100		-		or on a separate sh drophytic Vegetation	,		
Woody Vine Strat	tum (Plot size:		100			*Indicators of hydric soil	. , .		e present.	
1. <u></u> 2	· ·					Hadaaahada	•			
Z. <u></u>		Total Cover:				Hydrophytic Vegetation Present?	Yes	s	No	<u>x</u>
Remarks: (Include	le photo numbers her	e or on a separate shee	et.)			1				

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SOIL Sampling Point: W04SE-11

Profile Description: (Desc	cribe to the depth nee	eded to document the indicator or	confirm the absence of indicators	.)	
Depth Cala	Matrix	Redox Features	a* Laa** Tardura	Damauka	
(Inches) Colo	r (moist) %	Color (moist) % Typ	e* Loc** Texture	Remarks	
	Depletion, RM=Reduced	d Matrix, CS=Covered or Coated Sand (,	
Hydric Soil Indicators:			Indicators for Proble	ematic Hydric Soils***:	
Histosol (A1)		Sandy Gleyed Matrix (S4)	Coast Prairie Redo	ov (A16)	
Histic Epipedon (A2)		Sandy Redox (S5)	Iron-Manganese N	• •	
Black Histic (A3)		Stripped Matrix (S6)	Other (Explain in		
Hydrogen Sulfide (A4)		Loamy Mucky Mineral (F1)	` ` '	,	
Stratified Layers (A5)		Loamy Gleyed Matrix (F2)			
2 cm Muck (A10)	C (444)	Depleted Matrix (F3)			
Depleted Below Dark Su Thick Dark Surface (A12		Redox Dark Surface (F6) Depleted Dark Surface (F7)	***Indicators of hydrophyti	ic vogotation and	
Sandy Mucky Mineral (S	,	Redox Depressions (F8)	wetland hydrology mus		
5 cm Mucky Peat or Pea		Neach Depressions (Fe)	unless disturbed or p		
Restrictive Layer (if obser			·		
	,-				
Type:		_			
Depth (inches):		<u> </u>	Hydric Soils Present	?* Yes	No
Remarks: Hydric soils not	mapped. *No wetlan	d vegetation or hydrology so no so	il core collected.		
HYDROLOGY					
Wetland Hydrology Indica	ntors:				
, , , , , , , , , , , , , , , , , , , ,					
Primary Indicators (minimum	of one is required; chec	ck all that apply)	Secondary Indicators (minimum of two required)	
6 6 111 (44)		W (C) : () (D0)	0.6.030	(00)	
Surface Water (A1) High Water Table (A2)		Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Crack Drainage Patterns		
Saturation (A3)		True Aquatic Plants (B14)	Dry-Season Water		
Water Marks (B1)		Hydrogen Sulfide Odor (C1)	Crayfish Burrows		
Sediment Deposits (B2)		Oxidized Rhizospheres on Livin		on Aerial Imagery (C9)	
Drift Deposits (B3)		Presence of Reduced Iron (C4)		` '	
Algal Mat or Crust (B4)		Recent Iron Reduction in Tilled	Soils (C6) FAC-Neutral Test	(D5)	
Iron Deposits (B5)	wiel Imagen, (D7)	Thin Muck Surface (C7)			
Inundation Visible on Ae Sparsely Vegetated Con	3 , (,	Gauge or Well Data (D9) Other (Explain in Remarks)			
Field Observations:	cave Surface (Bo)	Other (Explain in Remarks)			
	V	No. V Double (in deap)			
Surface Water Present?	Yes				
Water Table Present?		No * Depth (inches):			
Saturation Present?	Yes	No X Depth (inches):	Wetland Hydrology	Present? Yes	No X
(includes capillary fringe)	am gaugo monitorina	wall parial photos provious issuesticas) if available		
Describe Recorded Data (Stre	am gauge, monitoring v	vell, aerial photos, previous inspections	y, 11 avallable		
Remarks:					
No signs of hydrology	present. NRCS aerial	review location			
*Soil pit not excavated.					
Soil pit not excavated.					

Project/Site:	Inaugural South Sul	burban Airport		City/County:	Will	Sam	pling Date:	5/11/09		
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sam	pling Point: <u>\</u>	W04SE-12		
Investigator(s):	T. Radke; M. Hildret	h		Section, Tow	nship, Range	Section 4; T33N; R13E				
Landform (hillside,	terrace, etc.):	terrace				Local relief (concave, con	nvex, none: <u>(</u>	Concave		
Slope %: 2		Lat: 41.375	02927		Long	g: <u>-87.73244783</u>		Datum: N	NAD83 III	linois East
Soil Unit Name:	Markham silt loam	(Mollic Oxyaquic Hap	ludalfs)	moderately	well drained	NWI Cla	assification: <u>l</u>	UPL		
Are climatic / hydro	ologic conditions on the	e site typical for this tim	e of year?		Yes	X No				
Are Vegetation	Soil	or hydrology X	Significant	ly disturbed?		Are "Normal Circumstances" prese	ent?	Yes_	Х	No
Are Vegetation	Soil	or hydrology	Naturally p	oroblematic?	((if needed, explain any answers in	Remarks.)			
SUMMARY OF	FINDINGS - Attac	h site map showi	ng samp	ling point l	ocations,	transects, important featur	es, etc.			
Hydrophytic Vege Hydric Soils Pres		Yes Yes	No No	X		Is the Sampling Area	Voc		No	
Wetland Hydrolog		Yes		Χ		within a Wetland?	163_			<u> </u>
Remarks:	rassed waterway. *N	o soil core taken				•				
Tileu, gi	asseu waterway. IN	o son core taken.								
VECETATION	llas asiantitis na									
VEGETATION	- Use scientific na	imes or plants.								
Tree Stratum	(Plot size:	1		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species				
1	(Plot size:)	76 COVE	Species:	Status	That Are OBL, FACW, or FAC		0 (A)	
2							_			
3. <u></u> 4						Total Number of Dominant Species Across All Strata:		2 (B)	
5						Openies Across Air Ottala.	-	(٥,	
		Total Cover:				Percent of Dominant Species				
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC:		0 % (A/B)	
1. <u></u>		,								
2. <u></u> 3. 						Prevalence Index Worksheet: Total % Cover of N	Aultiply by:			
4						OBL species	$\frac{\text{Multiply by:}}{\text{x 1 =}}$	- 0		
5						FACW species	x 2 =	0		
		Total Cover:				FAC species	x 3 =	0		
Herb Stratum	(Plot size:)				FACU species	x 4 =	0		
1. Bromus			40	Υ	UPL	UPL species	x 5 =	0		
	um officinale		15	<u>N</u>	FACU	Column Totals (A)	_	0(B)	
Festuca Cirsium			40	<u>Y</u> N	FACU	Prevalence Index =	D/A	#DIV/01		
4. <u>Cirsium</u> 5. Rumex o			2	N N	FAC	Prevalence index =	D/A =	#DIV/0!		
	m vulgatum		2	N	FACU	Hydrophytic Vegetation Indica	ators:			
7. <u></u>						Dominance Test is >50%				
8. <u></u>						Prevalence Index is *3.0				
9. <u></u> 10. 						Morphological Adaptatio				
10.		Total Cover:	101			Problematic Hydrophytic	•	,		
March March	(Dist size		101			I	•			
Woody Vine Stra 1	tum (Plot size: _)				*Indicators of hydric soil and wet	land hydrolo	gy must be p	oresent.	
2						Hydrophytic				
		Total Cover:				Vegetation Present?	Yes_		No	<u>x</u>
Remarks: (Include	de photo numbers here	e or on a separate shee	et.)							
, , , , , ,		,	•							

US Army Corps of Engineers

SOIL Sampling Point: W04SE-12

	needed to document the indicator or confirm the	absence of indicators.)	
Depth Matrix Color (moist) %	Redox Features	. Touture De	.ma a ul ca
(Inches) Color (moist) %	Color (moist) % Type* Loc**	Texture Re	emarks
			_
		· <u></u>	
	uced Matrix, CS=Covered or Coated Sand Grains. **	Location: PL=Pore Lining, M=Matrix	
Hydric Soil Indicators:		Indicators for Problematic Hydi	ric Soils***:
Histosol (A1)	Sandy Gleyed Matrix (S4)	Coast Prairie Redox (A16)	
Histic Epipedon (A2)	Sandy Gleyed Hatrix (34) Sandy Redox (S5)	Iron-Manganese Masses (F12)	
Black Histic (A3)	Stripped Matrix (S6)	Other (Explain in Remarks)	
Hydrogen Sulfide (A4)	Loamy Mucky Mineral (F1)		
Stratified Layers (A5)	Loamy Gleyed Matrix (F2)		
2 cm Muck (A10)	Depleted Matrix (F3)		
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Redox Dark Surface (F6) Depleted Dark Surface (F7) **	*Indicators of hydrophytic vegetation	and
Sandy Mucky Mineral (S1)	Redox Depressions (F8)	wetland hydrology must be present	
5 cm Mucky Peat or Peat (S3)		unless disturbed or problematic.	,
Restrictive Layer (if observed):		· · · · · · · · · · · · · · · · · · ·	
Туре:			
Depth (inches):	<u></u>	Hydric Soils Present?*	Yes No
Remarks: Hydric soils are not mapped. *No:	soil core collected because wetland vegetation ar	d hydrology are absent.	
HADBOLOCA			
HYDROLOGY			
Wetland Hydrology Indicators:			
	check all that apply.	Secondary Indicators (minimum of t	two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required;	.,,,	,	two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)	two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10	two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2)	two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Drainage Patterns (B10	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
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Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2)	, ,
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe]	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe]	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes [includes capillary fringe]	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Wetland Hydrology Indicators: Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitori	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitori	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches): No Depth (inches): Ing well, aerial photos, previous inspections), if available	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitori	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitori	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches): No Depth (inches): Ing well, aerial photos, previous inspections), if available	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)
Primary Indicators (minimum of one is 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) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitori	Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Gauge or Well Data (D9) Other (Explain in Remarks) No X Depth (inches): No X Depth (inches): No Depth (inches): Ing well, aerial photos, previous inspections), if available	Surface Soil Cracks (B6) Drainage Patterns (B10) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Im Geomorphic Position (D2) FAC-Neutral Test (D5) Wetland Hydrology Present?	agery (C9)

Project/Site:	Inaugural South Suburban Airport		City/County:	Will	Sampling Date	£ <u>5/11/09</u>
Applicant/Owner:	Illinois Department of Transportation	on			State: Illinois Sampling Poin	t: W04SE-13
Investigator(s):	T. Radke; M. Hildreth	!	Section, Tow	nship, Range	Section 4; T33N; R13E	
Landform (hillside,	terrace, etc.): terrace				Local relief (concave, convex, none	e: Concave
Slope %: 2	Lat: <u>4</u>	1.37353551		Long	: -87.7368375	Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam/Ashkum silty cla	y loam			NWI Classification	n: Upland
Are climatic / hydro	ologic conditions on the site typical for the	nis time of year?		Yes	X No	
Are Vegetation	Soil or hydrology X	Significant	ly disturbed?	,	Are "Normal Circumstances" present?	YesX No
Are Vegetation	Soil or hydrology	Naturally p	roblematic?	((if needed, explain any answers in Remarks	.)
SUMMARY OF	FINDINGS - Attach site map sl	nowing sampl	ing point	locations, t	transects, important features, etc.	
Hydrophytic Vege Hydric Soils Pres		No		No core	Is the Sampling Area	s No X
Wetland Hydrolog		No No			within a Wetland?	<u> </u>
Remarks: Lateral of	grassed tiled waterway sloping dowr	to lower draina	geway. Bar	e scoured ar	reas present.	
	,				,	
VEGETATION -	· Use scientific names of plant	s.				
			Dominant	Indicator	Dominance Test Worksheet:	
Tree Stratum 1	(Plot size:)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC	0 (A)
2					mat Are OBL, I ACW, OF AC	(A)
3					Total Number of Dominant	
4. <u></u> 5					Species Across All Strata:	3(B)
J. <u></u>	Total C	over:			Percent of Dominant Species	
Sapling/Shrub St					That Are OBL, FACW, or FAC:	0% (A/B)
1	ratum (Plot size:)				mat Are OBE, I AGW, OF I AG.	(A/B)
2					Prevalence Index Worksheet:	
3. <u></u> 4. 					Total % Cover of Multiply by: OBL species x 1 =	<u>: </u>
5					FACW species x 2 =	0
	Total C	over:			FAC species x 3 =	0
Herb Stratum	(Plot size:				FACU species x 4 =	0
1. Bromus	inermis	20	Υ	UPL	UPL species x 5 =	0
	um officinale ra biennis	<u>2</u> 1	N N	UPL FACU	Column Totals(A)	0 (B)
	pratense	10	<u> </u>	UPL	Prevalence Index = B/A =	#DIV/0!
	a vulgaris	2	N	FAC		
6. <u>Setaria f</u> 7. <u>Lepidiun</u>	aberi n campestre	10	N Y	FACU UPL	Hydrophytic Vegetation Indicators: Dominance Test is >50%	
8					Prevalence Index is *3.0*	
9. <u></u>					Morphological Adaptations* (Prov	
10. <u></u>	Total C				data in remarks or on a separate s	*
Woody Vino Stro		over: <u>47</u>			Problematic Hydrophytic Vegetation	` ' '
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydro	nogy must be present.
2					Hydrophytic	
	Total Co	over:			Vegetation Ye Present?	s NoX
	le photo numbers here or on a separat	e sheet.)				
Patchy vegetation	on.					

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SOIL Sampling Point: W04SE-13

Profile Description	n: (Describe to th	ne depth need	led to documen	t the indicat	or or con	firm the	absence of indicators.)		
Depth	Matr			Redox Featur		1 44	·		
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
	-	-			-			- .	
		-	-		-	. ———			
		-					-	_	
								_	
*Type: C=Concentra	ation. D=Depletion	. RM=Reduced	Matrix, CS=Cover	ed or Coated	Sand Grai	ins. **		atrix	
Hydric Soil Indicat		,					Indicators for Problematic		
Histosol (A1)	(42)			ed Matrix (S4)		Coast Prairie Redox (A16	•	
Histic Epipedon Black Histic (A3			Sandy Red Stripped M				Iron-Manganese Masses Other (Explain in Remark		
Hydrogen Sulfic				cky Mineral (F	1)			/	
Stratified Layer				yed Matrix (F2	2)				
2 cm Muck (A1) Depleted Below	u) ı Dark Surface (A11	.)	Depleted M Redox Dar	iatrix (F3) k Surface (F6)					
Thick Dark Surf	ace (A12)	.,	Depleted D	ark Surface (I		**	*Indicators of hydrophytic vege	tation and	
Sandy Mucky M	` '		Redox Dep	ressions (F8)			wetland hydrology must be pr		
5 cm Mucky Pe							unless disturbed or problem	atic.	
Restrictive Layer ((if observed):						No soil core collected. Ve	g and hydrology not pres	ent for this area.
Type: Depth (inches):			- -				Hydric Soils Present?*	Yes	No
Remarks: Hydric soils m	apped on lowest	portion of dra	ainageway. * V	egetation ar	nd hydrol	logy do r	ot meet wetland criteria, so	no soil core taken	
HYDROLOGY Wetland Hydrolog	y Indicators:								
Primary Indicators (r	minimum of one is	required; check	all that apply)				Secondary Indicators (minimu	m of two required)	
Conference Makes	(44)		\\/_tCt	d I (D	10)		Conference Call Consider (BC)		
Surface Water (High Water Tab			Aquatic Fa	ned Leaves (B una (B13)	19)		X Surface Soil Cracks (B6) Drainage Patterns (B10		
Saturation (A3)	` '			tic Plants (B14	ł)		Dry-Season Water Table	(C2)	
Water Marks (B	,			Sulfide Odor (. (00)	Crayfish Burrows (C8)		
Sediment Depo Drift Deposits (` '			hizospheres o f Reduced Iro		oots (C3)	Saturation Visible on Aeri Geomorphic Position (D2		
Algal Mat or Cru	,			n Reduction in		ils (C6)	FAC-Neutral Test (D5)	,	
Iron Deposits (I		(22)		Surface (C7)					
	ble on Aerial Image ated Concave Surfa			Vell Data (D9) Iain in Remarl					
Field Observations		сс (во)	Other (Exp	idiii iii ikeman			T		
Surface Water Prese		i	No X	Depth (inc	:hes):				
Water Table Present		·		Depth (inc			•		
Saturation Present?		, s		Depth (inc			Wetland Hydrology Preser	nt? Yes	No X
(includes capillary fri		·							
Describe Recorded D	oata (stream gauge	, monitoring we	ell, aerial photos,	previous inspe	ections), if	available			
Remarks: NRCS revie	•			-	inundatio	n/saturati	or		
	slopes down to a of scour visible on				antly unlar	nd species	ì		
*No soil pit exca		VC	.g_aaaa pateriy W	p. cdominic	, upiui	opene			

Site: Inaugural South Suburban Airport
Locale: W04SE14
Date: May 11, 2009 15 minutes
By: AECOM; T. Radke; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE14.inv

7 NA 13 T 2.0 NA 1.1 V 5.3 NA 3.9 V -2.4 NA -1.3 V	TIC QUALITY DATA ATIVE SPECIES Cotal Species TIVE MEAN C MAdventives TIVE FQI MAdventives TIVE MEAN W MAdventives COLUMN MADVENTIVES COLUM	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	7 1 1 0 0 0 0 0 1 1 0 2 0 1			P-Gras	e e o o o ss ss ge	6 0 0 0 0 2 0 0 0 3 1 0	46.2% 0.0% 0.0% 0.0% 0.0% 15.4% 0.0% 0.0% 23.1% 7.7% 0.0% 0.0%	
ACRONYM	C SCIENTIFIC NAME				W	WETNESS	PHY	SIOGNOMY	COMMON NAME	
AGRALA	0 AGROSTIS ALBA			-	-3	FACW	Ad	P-Grass	REDTOP	
BROINE	0 BROMUS INERMIS				5	UPL	Ad	P-Grass	HUNGARIAN BROME	
CYPESC	O Cyperus esculentus			-	-1	[FAC+]	Nt	P-Sedge	FIELD NUT SEDGE	
EQUHYE	3 Equisetum hyemale			-	-2	FACW-	Cry	ptogam	TALL SCOURING RUS	ЭН
GLYSTR	4 Glyceria striata			-	-3	[FACW]	Nt	P-Grass	FOWL MANNA GRASS	
PHAARU	O PHALARIS ARUNDINACE	:A		-	- 4	FACW+	Ad	P-Grass	REED CANARY GRASS	5
PLARUG	O Plantago rugelii				0	FAC	Nt	A-Forb	RED-STALKED PLANT	TAIN
POPDEL	2 Populus deltoides			-	-1	FAC+	Nt	Tree	EASTERN COTTONWOO	DD
RUMCRI	0 RUMEX CRISPUS			-	-1	FAC+	Ad	P-Forb	CURLY DOCK	
SALINT	1 Salix interior			-	- 5	OBL	Nt	Shrub	SANDBAR WILLOW	
SCIATR	4 Scirpus atrovirens			-	- 5	OBL	Nt	P-Sedge	DARK GREEN RUSH	
SETGLA	O SETARIA GLAUCA				0	FAC	Ad	A-Grass	YELLOW FOXTAIL	
TAROFF	0 TARAXACUM OFFICINAL	E			3	FACU	Ad	P-Forb	COMMON DANDELION	

Site: Inaugural South Suburban Airport
Locale: W04SE15
Date: May 11, 2009 30 minutes
By: AECOM; T. Radke; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SE15.inv

8 NA 12 T 2.3 NA 1.5 W 6.4 NA 5.2 W -3.7 NA -3.1 W	//Adventives TIVE MEAN W	W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass	0 3 0 1 2 0 1	0.0% 0.0% 25.0% 0.0% 8.3% 16.7% 0.0% 8.3%	Tree Shrul W-Vii H-Vii P-Fo: A-Fo: P-Gr: A-Gr: P-Sec	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 25.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			V	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	BFACW	Ad P-Grass	REDTOP
ASTSIS	3 Aster simplex			- 5	OBL	Nt P-Forb	PANICLED ASTER
ELYVIR	4 Elymus virginicus			-2	PACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratur	n		- 5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
HELGRO	2 Helianthus grossese	erratus		-2	PACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINACE	EΑ		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites austral:	is		- 4	FACW+	Nt P-Grass	COMMON REED
POAPRA	O POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RANABO	0 Ranunculus abortiv	ıs		-2	PACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SALFRA	0 SALIX FRAGILIS			-1	FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens			-5	OBL	Nt P-Sedge	DARK GREEN RUSH

Project/Site:	Inaugural South Subu	rban Airport		City/County:	Will County	Sampling Date: <u>5/11/2009</u>
Applicant/Owner:	Illinois Department of T	ransportation				State: Illinois Sampling Point: W04SE-15 SC-1
Investigator(s):	T. Radke; M. Hildreth			Section, Tow	nship, Range	: Section 4; T33N; R13E
Landform (hillside,	terrace, etc.): Slo	ре				Local relief (concave, convex, none: Concave
Slope %:5		Lat: 41.372	54089		Long	: <u>-87.73157524</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Ozaukee silty clay loam	, 6-12% slopes, s	everely erc	oded		NWI Classification: Not mapped: PEM
Are climatic / hydro	ologic conditions on the site	e typical for this tim	e of year?		Yes	X No
Are Vegetation	Soil or h	nydrology	Significantly	y disturbed?	/	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or h	nydrology	Naturally p	roblematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach s	ite map showi	ng sampl	ling point	ocations, t	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	ent?	Yes X Yes X Yes X	No No No			Is the Sampling Area within a Wetland? Yes X No
Remarks: Seep on slope.	Has saturated soil and is	s dominated by w	etland veg	etation		
VEGETATION	- Use scientific name	s of plants.				
Tree Stratum 1. Salix frag 2 3	(Plot size:gilis)	% Cover	Dominant Species? Y	Indicator Status FAC	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC
4. <u></u> 5						Species Across All Strata: 4 (B)
Sapling/Shrub St		Total Cover:	10	Υ	OBL	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
2 3 4 5						Prevalence Index Worksheet: Total % Cover of Multiply by: OBL species x 1 = 0 FACW species x 2 = 0
	(D)	Total Cover:			ļ	FAC species x 3 =0
2. Phragmi 3. 4	(Plot size: arundinacea ites australis		70 25	<u>Y</u> Y	FACW FACW	FACU species
6 7 8 9 10						Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)
Woody Vine Stra	tum (Plot size:		115			Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1 2		Total Cover:				Hydrophytic Vegetation Present? Yes X No
,	de photo numbers here or iven wetland domintated		,			

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SOIL Sampling Point: W04SE-15 SC-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)												
Depth	Matrix		D.c	dox Featur	.oc							
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks				
0-4	10YR 3/2	100					Mucky loam	organic content; saturated at surface				
			10VP F/0	15			-	· ·				
4-23	10YR 5/2	85	10YR 5/8	15	C	M	Sandy clay	moist				
					. ——							
							'					
*Tunes C Consented	tion D. Douletion D.	M. Dadwaad M	atriiv CC Cavanad	au Cantad	Cand Cuai		acations DL Dave Lining M Me					
, ·	*Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix											
Hydric Soil Indicate	ors:						Indicators for Problematic	Hydric Soils***:				
Histosol (A1)			Sandy Gleyed	Matrix (S4))		Coast Prairie Redox (A16)					
Histic Epipedon (-	Sandy Redox	(S5)			Iron-Manganese Masses (F12)					
Black Histic (A3)		=	Stripped Matri Loamy Mucky		1)		Other (Explain in Remark	s)				
Hydrogen Sulfide Stratified Layers		=	Loamy Gleyed									
2 cm Muck (A10)		-	Depleted Matr		• /							
	Dark Surface (A11)	-	Redox Dark S									
Thick Dark Surfa Sandy Mucky Mir	` '	-	Depleted Dark Redox Depres		7)	***	*Indicators of hydrophytic vegetation and					
5 cm Mucky Peat		-	Redux Depres	Sions (10)			wetland hydrology must be present, unless disturbed or problematic.					
Restrictive Layer (i							'					
, , ,	,											
Type:												
Depth (inches):							Hydric Soils Present?	Yes <u>X</u> No				
Remarks:												
Saturated orga	nic soil on slope											
HYDROLOGY												
Wetland Hydrology	Indicators:											
Primary Indicators (m	inimum of one is rea	uired: check a	II that apply'				Secondary Indicators (minimur	n of two required)				
1 minary maicacors (m	milimani or one is req	anca, cricci a	ii alac appiy,				Secondary Indicators (minimar	n or two required)				
X Surface Water (A		_	Water-Stained		9)		Surface Soil Cracks (B6)					
High Water Table (A2)			Aquatic Fauna		,		Drainage Patterns (B10 Dry-Season Water Table ((C2)				
X Saturation (A3) Water Marks (B1)			True Aquatic I Hydrogen Sulf				Crayfish Burrows (C8)	(C2)				
Sediment Deposi	•	-	Oxidized Rhize			oots (C3)	Saturation Visible on Aeria	al Imagery (C9)				
	Drift Deposits (B3) Presence of Reduced Iron (C4)					X Geomorphic Position (D2)						
Algal Mat or Crus Iron Deposits (B)	` '	-	Recent Iron R Thin Muck Su		Tilled Soi	ils (C6)	FAC-Neutral Test (D5)					
	le on Aerial Imagery	(B7)	Gauge or Wel									
	ted Concave Surface		Other (Explain									
Field Observations:	1											
Surface Water Present	t? Yes	X	No	Depth (inc	hes):	2						
Water Table Present?	Yes			Depth (inc								
Saturation Present?	Yes	X	No	Depth (inc	hes):	10	Wetland Hydrology Presen	t? Yes X No No No				
(includes capillary frin	ige)		·	. `	, ·		, ,,					
Describe Recorded Da	ata (stream gauge, m	onitoring well	aerial photos, pre	vious inspe	ctions), if	available						
Remarks:												
Groundwater intercepts surface along slope. Surface saturation.												
I												

Project/Site:	Inaugural South Suburban Airport	City/County: Will County			Sampling Date: <u>5/11/2009</u>				
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W04SE-15 SC-2				
Investigator(s):	vestigator(s): T. Radke; M. Hildreth Section, Township, Range: Section 4; T33N; R13E								
Landform (hillside,	terrace, etc.): top of slope				Local relief (concave, convex, none: Concave				
Slope %:2	Lat: 41.372	254089		Long	: <u>-87.73157524</u> Datum: <u>NAD83 Illinois East</u>				
Soil Unit Name:	Ozaukee silty clay loam, 6-12% slopes, s	severely ero	oded		NWI Classification: UPL				
Are climatic / hydro	ologic conditions on the site typical for this tin	X No							
Are Vegetation	Soil or hydrology	Signi	ficantly distur	rbed?	Are "Normal Circumstances" present? Yes X 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 Vege Hydric Soils Pres		No No	<u> </u>		Is the Sampling Area within a Wetland? Yes NoX				
Wetland Hydrolog		No	X		within a Wetland?				
Remarks: Uncultivated are	ea between cropped fields								
VEGETATION	- Use scientific names of plants.								
Tree Stratum	(Plot size:		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species				
1.	(1.00.020				That Are OBL, FACW, or FAC (A)				
2. <u></u> 3. <u></u>					Total Number of Dominant				
4. <u></u> 5					Species Across All Strata: 3 (B)				
J	Total Cover:				Percent of Dominant Species				
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC:(A/B)				
1. 2					Prevalence Index Worksheet:				
3					Total % Cover of Multiply by:				
4. <u></u> 5. 					OBL species				
	Total Cover:				FAC species x 3 = 0				
Herb Stratum	(Plot size:)				FACU species x 4 =0				
	o altissima glomerata	35 10	Y	FACU FACU	UPL species				
3. Festuca	elatior	10	N	FACU					
- O-1	s inermis	30	Y	UPL FAC	Prevalence Index = B/A = #DIV/0!				
	m halepense	30	<u>Y</u>	FACU	Hydrophytic Vegetation Indicators:				
7. <u></u>					Dominance Test is >50% Prevalence Index is *3.0*				
8. <u></u> 9. 					Morphological Adaptations* (Provide supporting				
10					data in remarks or on a separate sheet)				
	Total Cover:	120			Problematic Hydrophytic Vegetation (Explain)				
Woody Vine Stra 1	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.				
2	_				Hydrophytic				
	Total Cover:				Vegetation Yes No X Present?				
,	de photo numbers here or on a separate she	,							
	ween crop fields dominated by upland sp prowing in clumps shows signs of being vege		nl (singed lea	aves)					
355511 G1035 g	,		(5904 104						
I									

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SOIL Sampling Point: W04SE-15 SC-2

Profile Description:	(Describe to the	depth needed	d to document t	he indicat	or or con	firm the	absence of indicators.)			
Depth	Matrix		P	edox Featur	-ec					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-5	10YR 3/2	100					Clay loam	dry		
5-15	10YR 5/4	100			С	М	Silty clay	dry, some organic bodies	,	
			10/0 5/6	25					•	
15-20	10YR 6/3	65	10YR 5/6	35	C	M	Sandy clay	dry		
						-				
*Type: C=Concentral	tion, D=Depletion, RI	M=Reduced Ma	atrix, CS=Covered	or Coated	Sand Grai	ns. **I	ocation: PL=Pore Lining, M	I=Matrix		
Hydric Soil Indicate	ors:						Indicators for Problema	atic Hydric Soils***:		
,								,		
Histosol (A1)	(42)	_	Sandy Gleyed)		Coast Prairie Redox (
Histic Epipedon (Black Histic (A3)		=	Sandy Redox Stripped Mate				Iron-Manganese Mass Other (Explain in Ren			
Hydrogen Sulfide		_	Loamy Mucky	/ Mineral (F	1)					
Stratified Layers		_	Loamy Gleye		2)					
2 cm Muck (A10)) Dark Surface (A11)	_	Depleted Mat Redox Dark S							
Thick Dark Surfa		_	Depleted Dark			**:	*Indicators of hydrophytic ve	egetation and		
Sandy Mucky Mir		_	Redox Depre	ssions (F8)	,		wetland hydrology must be			
5 cm Mucky Peat	` '						unless disturbed or prob	lematic.		
Restrictive Layer (i	f observed):									
Type:										
Depth (inches):							Hydric Soils Present? Yes No			
Dry old-field at	top of hill above w	etland plot.								
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (m	inimum of one is requ	uired; check al	I that apply)				Secondary Indicators (mini	imum of two required)		
Surface Water (A		_	Water-Staine		9)		Surface Soil Cracks (E			
High Water Table Saturation (A3)	e (A2)	-	Aquatic Faun True Aquatic		.)		Drainage Patterns (B: Dry-Season Water Ta			
Water Marks (B1)	_	Hydrogen Su				Crayfish Burrows (C8)			
Sediment Deposi	` '	_	Oxidized Rhiz			oots (C3)	Saturation Visible on			
Drift Deposits (B Algal Mat or Crus		-	Presence of F Recent Iron F			lc (C6)	Geomorphic Position FAC-Neutral Test (D5			
Iron Deposits (B		-	Thin Muck Su		i Tillea 30i	13 (CO)	TAC-Neutral Test (DS	7		
Inundation Visible	e on Aerial Imagery		Gauge or We	ll Data (D9)						
_ ' '	ed Concave Surface	(B8) <u> </u>	Other (Explai	n in Remarl	(S)		1			
Field Observations:										
Surface Water Present		N		Depth (inc						
Water Table Present?	_	N		Depth (inc						
Saturation Present?		N	lo <u>X</u>	Depth (inc	hes):		Wetland Hydrology Pre	esent? Yes	No X	
(includes capillary frin Describe Recorded Da		onitoring well,	aerial photos, pre	evious inspe	ctions), if	available				
					-					
Remarks:										
Plot is on hill al	bove wetland point	t .								

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Midwest Region - Interim Version

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Inaugural South Su	ıburban Airport		City/County:	Will County	Sampling Date: <u>5/11/2009</u>	
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sampling Point: W04SE-16 SC-1	
Investigator(s):	T. Radke; M. Hildre	eth	:	Section, Tow	nship, Range	: Section 4; T33N; R13E	
Landform (hillside,	terrace, etc.):	hillside				Local relief (concave, convex, none: concave	
Slope %: 2		Lat: 41.374	03891		Long	: <u>-87.72935584</u> Datum: <u>NAD83</u>	Illinois East
Soil Unit Name:	Ashkum silty clay I	oam				NWI Classification: UPL	
Are climatic / hydro	ologic conditions on th	ne site typical for this tim	e of year?		Yes	X No	
Are Vegetation	X Soil	or hydrology	Significant	ly disturbed?	,	Are "Normal Circumstances" present? Yes	NoX
Are Vegetation	Soil	or hydrology	Naturally p	oroblematic?	(if needed, explain any answers in Remarks.)	
SUMMARY OF	FINDINGS - Atta	ch site map showi	ng sampl	ling point	locations,	transects, important features, etc.	
Hydrophytic Vege Hydric Soils Pres		Yes Yes	No No	X		Is the Sampling Area Within a Westand? YesNoNo	x
Wetland Hydrolog		Yes	No			within a Wetland?	
Remarks: Cultivated field.							
Soybean crop re	esidue with no sign	of stress or failure. Sig	gns of scou	ur on slope	above.		
VEGETATION	- Use scientific n	amos of plants					
VEGETATION	- Ose scientilic ii	ames or plants.	Absolute	Dominant	Indicator	Dominance Test Worksheet:	
Tree Stratum 1	(Plot size:)		Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC 1 (A)	
2						marke obe, rhow, or the	
3						Total Number of Dominant	
4. <u></u> 5. 						Species Across All Strata: 2 (B)	
		Total Cover:				Percent of Dominant Species	
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC:(A/B)	
2						Prevalence Index Worksheet:	
3						Total % Cover of Multiply by:	
4. <u></u> 5. 						OBL species	
		Total Cover:		-		FAC species 20 x 3 = 60	
Herb Stratum	(Plot size:					FACU species 10 x 4 = 40	
1. Ambrosi			20	Y	FAC	UPL species $x = 5 = 0$	
2. <u>Ambrosi</u> 3	ia artemisiifolia		10	Y	FACU	Column Totals <u>30</u> (A) <u>100</u> (B)	
4. <u></u>						Prevalence Index = B/A = 3.3	
5. <u></u>						Hydrophytic Vacatation Indicators	
6. <u></u> 7. 						Hydrophytic Vegetation Indicators: Dominance Test is >50%	
8						Prevalence Index is *3.0*	
9. <u></u>						Morphological Adaptations* (Provide supporting	
10. <u></u>						data in remarks or on a separate sheet)	
		Total Cover:				Problematic Hydrophytic Vegetation (Explain)	
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present	.
2						Hydrophytic	
		Total Cover:				Vegetation Yes No Present?	X
Remarks: (Include	de photo numbers her	re or on a separate she	et.)				
Cultivated field	with crop residue (se	oybeans) present.					

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W04SE-16 SC-1

Depth (Inches) C					ii tile abse	ence of indicators.)		
	Matrix		Redox	Features				
0-24	olor (moist)	%	Color (moist)	% Type* L	oc** Tex	ture	Remarks	
	10YR 2/1	100			Cla	y loam dry		
24-31	10YR 5/4	100			Sar	ndy clay loam, moist		
						, , .		
								
							-	
*Type: C=Concentration,	D=Depletion, RM	=Reduced Ma	trix, CS=Covered or C	oated Sand Grains.	**Locat	ion: PL=Pore Lining, M=Ma	atrix	
Hydric Soil Indicators:					Inc	licators for Problematic	Hydric Soils***:	
15-t1 (A4)			County Clayer d Mate	÷. (C4)		Const Duniting Daday (A1C)		
Histosol (A1) Histic Epipedon (A2)		_	Sandy Gleyed Matr Sandy Redox (S5)	ıx (S4)		Coast Prairie Redox (A16) Iron-Manganese Masses (
Black Histic (A3)		_	Stripped Matrix (Se	5)		Other (Explain in Remarks		
Hydrogen Sulfide (A	1)		Loamy Mucky Mine			_ ` ` '	,	
Stratified Layers (A5)	_	Loamy Gleyed Mat					
2 cm Muck (A10) Depleted Below Dark	Surface (A11)	_	Depleted Matrix (F Redox Dark Surface					
Thick Dark Surface (_	Depleted Dark Sur		***Indi	cators of hydrophytic vegeta	ation and	
Sandy Mucky Minera		_	Redox Depressions			tland hydrology must be pre		
5 cm Mucky Peat or	Peat (S3)		_		u	nless disturbed or problema	itic.	
Restrictive Layer (if ob	served):							
Typo								
Type: Depth (inches):					Hv	dric Soils Present?	Yes	No X
Remarks:								
HYDROLOGY Wetland Hydrology Inc	licatore							
Primary Indicators (minim		irod: chock all	that apply'		Soc	ondary Indicators (minimun	n of two required)	
Primary Indicators (minim	uili oi one is requ	ileu, check all	шас арріу,		360	ondary maicators (minimun	ir or two required)	
Surface Water (A1)		_	Water-Stained Lea	ves (B9)		6 6 6 16 1 (86)		
	2)		Aquatic Fauna (B1			Surface Soil Cracks (B6)		
High Water Table (A					_	Drainage Patterns (B10		
Saturation (A3)		_	True Aquatic Plant		_	Drainage Patterns (B10 Dry-Season Water Table ((C2)	
Saturation (A3) Water Marks (B1)	32)	<u> </u>	Hydrogen Sulfide (Odor (C1)		Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8)	` '	
Saturation (A3)	32)	=	Hydrogen Sulfide (Odor (Ć1) eres on Living Roots	G (C3)	Drainage Patterns (B10 Dry-Season Water Table (al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B	•	- - - -	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc	Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soils (` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	34)	- - - - -	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface	Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7)	` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or	14) n Aerial Imagery (E	_	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat	Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7) a (D9)	` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (14) n Aerial Imagery (E	_	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface	Odor (C1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7) a (D9)	` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations:	i4) n Aerial Imagery (E Concave Surface (E	B8)	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (Ć1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7) a (D9) Remarks)	` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (S5) Inundation Visible or Sparsely Vegetated (S6) Field Observations: Surface Water Present?	i4) n Aerial Imagery (I Concave Surface (I Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (Ć1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7) a (D9) Remarks)	` _	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present?	14) n Aerial Imagery (I Concave Surface (I Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) ttion in Tilled Soils ((C7) a (D9) kemarks) th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	
Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present?	14) n Aerial Imagery (I Concave Surface (I Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (Ć1) eres on Living Roots ed Iron (C4) tion in Tilled Soils ((C7) a (D9) Remarks)	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (I Concave Surface (I Yes Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present?	Aerial Imagery (I Concave Surface (I Yes Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (I Concave Surface (I Yes Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B1) Prift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (includes Capillary fringe)	Aerial Imagery (I Concave Surface (I Yes Yes Yes	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	Aerial Imagery (I Concave Surface (I Yes Yes Yes stream gauge, mo	B8) N	Hydrogen Sulfide (Oxidized Rhizosphi Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (C1) eres on Living Roots ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches):	C6)	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Remarks: Area is an NRCS 20 Plot is in cultivated	A Aerial Imagery (I Concave Surface (I Yes Yes Yes Stream gauge, mo	B8) N N N Nonitoring well,	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (Ć1) eres on Living Roote ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches): th (inches):	Waiilable	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X
Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated (Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (Remarks: Area is an NRCS 20 Plot is in cultivated	A Aerial Imagery (I Concave Surface (I Yes Yes Yes Stream gauge, mo	B8) N N N Nonitoring well,	Hydrogen Sulfide (Oxidized Rhizospho Presence of Reduc Recent Iron Reduc Thin Muck Surface Gauge or Well Dat Other (Explain in R	Odor (Ć1) eres on Living Roote ed Iron (C4) tition in Tilled Soils ((C7) a (D9) Remarks) th (inches): th (inches): th (inches):	Waiilable	Drainage Patterns (B10 Dry-Season Water Table (Crayfish Burrows (C8) Saturation Visible on Aeria Geomorphic Position (D2) FAC-Neutral Test (D5)	al Imagery (C9)	No_X

US Army Corps of Engineers Midwest Region - Interim Version

Site: Inaugural South Suburban Airport

Site: Inaugural South Suburban Alipoit
Locale: W04SW1a
Date: May 11, 2009 1 hours
October 9, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW1a.inv

40 NA 50 T 2.5 NA 2.0 W 15.7 NA 14.0 W -1.9 NA -1.4 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	40 2 5 2 0 13 0 7 5 0 4 0 2	80.0% 4.0% 10.0% 4.0% 0.0% 26.0% 0.0% 14.0% 10.0% 0.0% 8.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra P-Sed A-Sed	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.0% 0.0% 0.0% 2.0% 0.0% 2.0% 6.0% 0.0% 10.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			Ţ	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum			-:	3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA			-:	3 FACW	Ad P-Grass	REDTOP
ALISUB	4 Alisma subcordatum			-!	5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	O Ambrosia artemisiif	olia elatior		;	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			- 3	l FAC+	Nt A-Forb	GIANT RAGWEED
ASTNOV	4 Aster novae-angliae			-:	3 FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-!	5 OBL	Nt P-Forb	PANICLED ASTER
BARVUL	0 BARBAREA VULGARIS			() FAC	Ad B-Forb	YELLOW ROCKET
CALCAN	3 Calamagrostis canad	ensis		-!	5 OBL	Nt P-Grass	BLUE JOINT GRASS
CXCRIS	4 Carex cristatella				4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea			-!	5 OBL	Nt P-Sedge	BROWN FOX SEDGE
CORSTO	6 Cornus stolonifera			-:	3 FACW	Nt Shrub	RED-OSIER DOGWOOD
ELYVIR	4 Elymus virginicus			-:	2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratum			-!	5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	0 Equisetum arvense			() FAC	Cryptogam	HORSETAIL
EQUHYE	3 Equisetum hyemale			-:	2 FACW-	Cryptogam	TALL SCOURING RUSH
FESELA	O FESTUCA ELATIOR			:	2 FACU+	Ad P-Grass	TALL FESCUE
GALAPA	1 Galium aparine			;	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEULAT	2 Geum laciniatum tri	chocarpum		-;	3 FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata			-;	B [FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grossese	rratus		-:	2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IMPCAP	3 Impatiens capensis			-:	3 FACW	Nt A-Forb	ORANGE JEWELWEED
JUNDUD	4 Juncus dudleyi				[FAC]	Nt P-Forb	DUDLEY'S RUSH
LYCAME	5 Lycopus americanus			-!	5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
MELALB	0 MELILOTUS ALBA			;	3 FACU	Ad B-Forb	WHITE SWEET CLOVER

MONFIS	4 Monarda fistulosa	3 FACU	Nt P-Forb	WILD BERGAMOT
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PASSAT	O PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
PILPUM	5 Pilea pumila	-3 FACW	Nt A-Forb	CLEARWEED
PLARUG	O Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SANGRE SNAKEROOT	2 Sanicula gregaria	-1 FAC+	Nt P-Forb	CLUSTERED BLACK
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIFLU	4 Scirpus fluviatilis	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

Site: Inaugural South Suburban Airport
Locale: W04SWlb and c
Date: May 11, 2009 15 minutes
By: AECOM; T. Radke; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SWlb&c.inv

5 NA 15 T 2.8 NA 0.9 W 6.3 NA 3.6 W -2.4 NA		Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge	0 2 0 0 0 0 0 3	33.3% 0.0% 0.0% 0.0% 0.0% 13.3% 0.0% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	e e b b ss ss ge	0 0 0 0 3 3 0 3 1	
ACRONYM	C SCIENTIFIC NAME	A-Sedge Cryptogam	0	0.0% 0.0%	A-Sed	,		0.0% COMMON NAME
AGRALA	O AGROSTIS ALBA				FACW		P-Grass	
BARVUL	0 BARBAREA VULGARIS				FAC		B-Forb	
CXCRIS	4 Carex cristatella			-4	FACW+	Nt	P-Sedge	CRESTED OVAL SEDGE
CYPESC	O Cyperus esculentus			-1	[FAC+]	Nt	P-Sedge	FIELD NUT SEDGE
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad	B-Forb	QUEEN ANNE'S LACE
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt	P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt	P-Forb	DUDLEY'S RUSH
PASSAT	0 PASTINACA SATIVA			5	UPL	Ad	B-Forb	WILD PARSNIP
PHAARU	O PHALARIS ARUNDINACI	ΞA		-4	FACW+	Ad	P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS			1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
RUMCRI	0 RUMEX CRISPUS			_1	FAC+	Δd	P-Forb	CURLY DOCK
SCIATR	4 Scirpus atrovirens				OBL		P-Sedge	
	-						-	
SETGLA	O SETARIA GLAUCA			0	FAC	Ad	A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINAL	Ε		3	FACU	Ad	P-Forb	COMMON DANDELION
TRIPRA	0 TRIFOLIUM PRATENSE			5	UPL	Ad	P-Forb	RED CLOVER

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? **X** Yes **Wetland Complex** No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) VEGETATION Dominant Species (50/20 Rule) Ind. Status % Cover Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> Agrostis alba **FACW HERB** 35 Populus deltoides FAC+ TREE 30 Juncus dudleyi FAC **HERB** 50 8. Solidago altissima FACU HFRB 3. 10 9. Festuca elatior UPL **HERB** 35 10. --__ Helianthus grosseserratus FACW-HERB 10 11. 5. Salix exigua OBL **SHRUB** 60 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. Plot is in wet meadow, west of willow thicket **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 8 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Meadow and adjacent willow thicket saturated at/near surface. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 A1 2/2 few prominent Silty clay loam; moist, friable 11 A2 10YR 2/1 10YR 6/3 common prominent Silty clay; moist, friable 10YR 11 15 В1 5/3 10YR 5/1 common faint Silty clay; moist, firm 20 B2 10YR 10YR 15 5/1 distinct Silty clay; moist, firm 6/6 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Upland edge of wet meadow. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW** HERB Festuca elatior UPL **HERB** 50 8. **FACU** 10 3. Melilotus alha **HFRB** 9. Helianthus grosseserratus FACW-**HERB** 10 10. ----Poa compressa FACU+ **HERB** 50 11. 5. Prunus serotina **FACU** TREE 40 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. North edge of wet meadow. Plot is mixture of wet meadow and upland old field species. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Tiled drainageway <100 feet south. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 11 3/1 NΑ NΑ NA NΑ Silty clay loam; moist, friable 10YR 6/2 commor distinct 11 15 В1 10YR 5/1 10YR 6/4 common distinct Silty clay; moist, friable 15 10YR 18 B2 6/6 10YR 5/1 few faint Silty clay; moist, firm 10YR 10YR 18 20 B3 5/1 6/6 distinct Silty clay; moist, firm common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W04SW2

Date: W04SW2
Date: October 10, 2008 1 hours
By: AECOM: T.Radke; M.Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW2.inv

SOLALT 1 Solidago altissima

FLORIST	CIC QUALITY DATA	Native	3	37.5%	Advent	tive 5	62.5%
3 NA	ATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 7	Cotal Species	Shrub	1	12.5%	Shrub	0	0.0%
1.3 NA	ATIVE MEAN C	W-Vine	0	0.0%	W-Vine	9 0	0.0%
0.5 V	//Adventives	H-Vine	0	0.0%	H-Vine	€ 0	0.0%
2.3 NA	ATIVE FQI	P-Forb	2	25.0%	P-Forb	0	0.0%
1.4 V	//Adventives	B-Forb	0	0.0%	B-Forl	0 c	0.0%
-1.3 NA	ATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0 c	0.0%
-0.4 V	//Adventives	P-Grass	0	0.0%	P-Gras	ss 5	62.5%
AVG: Fá	aculative (+)	A-Grass	0	0.0%	A-Gras	ss 0	0.0%
		P-Sedge	0	0.0%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosses	serratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	O PHALARIS ARUNDINAC	CEA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW

3 FACU

Nt P-Forb TALL GOLDENROD

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Project/Site: Date: 10/10/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: M. Hildreth State: Illinois Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-2 X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Point in old field between corn and excavated/tiled drainageway. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** OBL SHRUB 25 Salix exigua Phalaris arundinacea FACW+ **HERB** 30 8. Solidago altissima 3. FACU HFRB 25 9. Festuca elatior UPL **HERB** 25 10. --__ Helianthus grosseserratus FACW-HERB 25 11. 5. Poa pratensis FAC-**HERB** 30 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Landscape position. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10 Α 10YR 2.5/1 NA NA NA NA Silty clay loam; moist, friable; roots to 10" 10 22 В 10YR 5/1 10YR 5/6 common distinct Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

Area includes a stream channel and surrounding wetland corridor

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: M.Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-2 Yes Is The Area A Potential Problem Area? X No Plot ID: SC-2 Yes (If yes, define below.) Remarks: Plot between corn field on north and drainagway to the south. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Solidago altissima **FACU HERB** Phalaris arundinacea FACW+ **HERB** 30 8. FAC-3. Poa pratensis **HERB** 35 9. **Bromus inermis** UPL **HERB** 30 10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 25% Remarks: Hydrophytic vegetation is not dominant. Plot at north edge of tiled drainagway **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 8.5 Ap 2/1 NA NA NA Silty clay loam; moist, friable 8.5 Α1 10YR 2/1 10YR 5/2 few distinct Silty clay loam; moist, friable 11 21 10YR 11 В1 5/3 10YR 5/6 common distinct Silty clay; moist, firm; organic streaking Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Not quite A11 or F6 **WETLAND DETERMINATION X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation

Locale: W04SW3a

Date: October 8, 2008 3 hours

By: AECOM:T.Radke; R.West

File: 1:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised

Forms\W04\FQI\W04SW3a.inv

49 NA 66 T 2.9 NA 2.2 W 20.6 NA 17.7 W -0.6 NA 0.1 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	49 4 4 3 0 25 1 3 4 0 3 0 25	74.28 6.18 6.18 4.58 0.08 37.98 1.58 4.58 6.18 0.08 4.58 0.08 3.08	Advent Tree Shrub W-Vine H-Vine P-Fork A-Fork P-Gras A-Gras P-Sedg	1 2 1 0 0 2 2 3 3 1 1 s 7 7 s 0 0 de 0 0	25.8% 1.5% 3.0% 1.5% 0.0% 3.0% 4.5% 1.5% 10.6% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRGRY	2 Agrimonia gryposepa	la		2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AGRALP	10 Agrostis alba palus	tris		-5	[OBL]	Nt P-Grass	BENT GRASS
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	O Asclepias syriaca			5	UPL	Nt P-Forb	COMMON MILKWEED
ASTERI	5 Aster ericoides			4	FACU-	Nt P-Forb	HEATH ASTER
ASTNOV	4 Aster novae-angliae			-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CICMAC	6 Cicuta maculata			-5	OBL	Nt P-Forb	WATER HEMLOCK
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Forb	HEDGE BINDWEED
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELAUMB	0 ELAEAGNUS UMBELLATA			5	UPL	Ad Shrub	AUTUMN OLIVE
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EQUARV	O Equisetum arvense			0	FAC	Cryptogam	HORSETAIL
EQUHYE	3 Equisetum hyemale			-2	FACW-	Cryptogam	TALL SCOURING RUSH
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
FRAVIR	1 Fragaria virginiana			1	FAC-	Nt P-Forb	WILD STRAWBERRY

FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GALOBT	5 Galium obtusum	-4 FACW+	Nt P-Forb	WILD MADDER
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GLEHED	0 GLECHOMA HEDERACEA	3 FACU	Ad P-Forb	CREEPING CHARLIE
GLYSTR	4 Glyceria striata	-3 [FACW]	Nt P-Grass	FOWL MANNA GRASS
HACVIR	O Hackelia virginiana	1 FAC-	Nt B-Forb	STICKSEED
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi	0 [FAC]	Nt P-Forb	DUDLEY'S RUSH
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LYCAME	5 Lycopus americanus	-5 OBL	Nt P-Forb	COMMON WATER HOREHOUND
MELALB	0 MELILOTUS ALBA	3 FACU	Ad B-Forb	WHITE SWEET CLOVER
MENARV	5 Mentha arvensis villosa	-5 [OBL]	Nt P-Forb	WILD MINT
MIMRIN	6 Mimulus ringens	-5 OBL	Nt P-Forb	MONKEY FLOWER
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OXAEUR	0 Oxalis europaea	3 FACU	Nt P-Forb	TALL WOOD SORREL
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PHLPRA	0 PHLEUM PRATENSE	3 FACU	Ad P-Grass	TIMOTHY
PLARUG	O Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHUGLA	1 Rhus glabra	5 UPL	Nt Shrub	SMOOTH SUMAC
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SILLAC	5 Silphium laciniatum	5 UPL	Nt P-Forb	COMPASS PLANT
SILTER	5 Silphium terebinthinaceum	3 FACU	Nt P-Forb	PRAIRIE DOCK
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLJUN	5 Solidago juncea	5 UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD
TRIREP	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

VERURU	5 Verbena urticifolia	5 UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-3a X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Tiled drainageway VEGETATION Dominant Species (50/20 Rule) Ind. Status % Cover Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> Agrostis alba **FACW HERB** 35 FACW-HERB 10 Helianthus grosseserratus Ambrosia trifida FAC+ **HERB** 30 8. Solidago altissima FACU HFRB 3. 20 9. Glecoma hederacea UPL **HERB** 30 10. ----5. Poa pratensis FAC-**HERB** 25 11. Juncus dudleyi FAC HFRB 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Plot is in wet meadow next to shallow, tiled drainageway. Drainageway itself is dominated by reed canary grass. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 4 (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: 11 (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 11 Α N 2.5/0 NA NA NA NA mucky silty loam; moist friable 11 17 A2 N 2.5/0 NA NA NA NA mucky silty clay loam; wet, friable; saturated at 11" 17 10YR distinct 20 В 4/1 10YR 5/6 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-3a X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Plot is >100' south of tiled drainageway. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Dactylis glomerata FACU HERB Phleum pratense **FACU HERB** 15 8. Solidago nemoralis UPL **HERB** 3. 35 9. Festuca elatior UPL **HERB** 35 10. ----5. Agrostis alba **FACW HERB** 10 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Typic Endoaquolls No X Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 11 2.5/1 NA NA NA NΑ Silty loam; moist, friable 15 В 10YR 4/1 10YR 4/4 common distinct Silty clay loam; moist, friable 11 15 10YR 20 B2 5/2 10YR 5/6 common distinct Silty clay loam; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? **X** Yes Nο X No Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.

Site: Inaugural South Suburban Airport

Locale: W045W3b
Date: October 8, 2008 15 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W045W3b.inv

		_			_	
FLORISTIC QUALITY DATA	Native	1	50.0%	Adventive	1	50.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
2 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
1.5 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	1	50.0%	A-Grass	1	50.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME

PANDII 0 Panicum dichotomiflorum -2 FACW- Nt A-Grass KNEE GRASS

5 UPL Ad A-Grass CORN ZEAMAY 0 ZEA MAYS

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-3b Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Farmed wetland adjacent to W04SW3a. Failed crop and bare soil. Wetland species dominant. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Panicum dichotomiflorum FACW-**HERB** FACW-HERB 10 Helianthus grosseserratus 2. Zea mays UPL **HERB** 10 8. 3. 9. 4. 10. __ 5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Sparse corn crop in area of bare soil **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS ID and failed crop; Surface saturated. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *No soil sample taken. Surface saturated and mucky. **WETLAND DETERMINATION** X Yes Hvdric Soils Present? * Yes Nο Hydrophytic Vegetation Present? Nο Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in a wetland. *Soil sample not taken.

Vegetation parameter altered.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-4 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field with successful crop. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. --9. 4. --10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam/Markham silt loam Series Drainage Class: Poorly drained/Moderately well-drained Taxonomy (Subgroup): Typic Endoaquolls/Mollic Oxyaquic Hapludalf Field Observations Confirm Mapped Type? No soil core collected* No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Area within hydric and non-hydric mapped units. *No wetland vegetation or hydrology present so soil core not taken. **WETLAND DETERMINATION** Hydric Soils Present? No soil core collected* Nο X No Hydrophytic Vegetation Present? Yes X No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in a wetland. *No wetland hydrology and successful crop, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-5 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field with successful crop. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. --9. 4. --10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam/Markham silt loam Series Drainage Class: Poorly drained/Moderately well-drained Taxonomy (Subgroup):Typic Endoaquolis/Mollic Oxyaquic Hapludali Field Observations Confirm Mapped Type? No soil core taken* No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Area within hydric and non-hydric mapped units. *Wetland vegetation and hydrology absent, so soil core not taken. **WETLAND DETERMINATION** Hydric Soils Present? No soil core taken* Nο X No * Yes Hydrophytic Vegetation Present? X No Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? Yes Remarks: Plot is not loacted in a wetland. *No wetland hydrology and successful crop, so no soil core collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; Teri Radke #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-6 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway in cornfield VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia trifida FAC+ **HERB** 50 Agrostis alba **FACW HERB** 25 8. Rubus allegheniensis **SHRUB** 3. FACU+ 40 9. Prunus serotina **FACU** TREE 10 10. ----5. Morus alba FAC TREE 10 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 60% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review. Aerial photo shows apparent drainage pattern; field tile probable. Surface shows evidence of flowing water. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ap 3.5/2 NA NA NA NΑ Silty loam; moist, friable 6 10 A2 10YR 3.5/2 NA NA NA NA Silty loam; moist, friable 10 10YR 20 В 4/2 NΑ NA NA NA Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** Hydric Soils Present? **X** No Nο Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No Yes X No Remarks: This plot is not located in wetland. Agricultural drainage tile is functioning

Site: Inaugural South Suburban Airport
Locale: W04SW7
Date: October 8, 2008 15 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW7.inv

FLORISTIC QUALITY DATA	Native	2	50.0%	Adventive	2	50.0%
2 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.5 NATIVE MEAN W	A-Forb	1	25.0%	A-Forb	0	0.0%
0.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Fac. Wetland (-)	A-Grass	1	25.0%	A-Grass	2	50.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%	_		

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ECHCRU	O Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
RANABO	O Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W04SW-7 X Yes No Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: Cornfield with failed crop and drainage tile. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Zea mays UPL **HERB** 20 Setaria glauca FAC **HERB** 30 8. **HERB** 3. Echinochloa crusgalli FACW 20 9. 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Planted crop failed. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Evidence of ponding, soil cracks, NRCS ID and failed corn crop. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10 Ap 10YR 3/1 NΑ NΑ NA NA Gravelly Silty clay loam; moist friable 10YR 4/2 commor distinct 10 19 В 10YR 5/1 10YR 5/6 prominent Gravelly clay; moist, very firm many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? **X** Yes X Yes Nο Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. NRCS depression/swale in corn field has signs of water flowing/ponding. Stunted corn/bare spots at south end w/Barnyard grass and Yellow Foxtail grass.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Eroded corn field. Hydrophytic vegetation growing among crop but not dominant. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** Zea mays Ipomoea hederacea FAC VINE 3 8. 3. Ranunculus abortivus FACW-**HFRB** 3 9. 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant amid corn crop. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photo shows signature of drainage pattern--probable tile installation. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Udollic Epiaqualfs** X Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics redox concretions 0 8 Ap 10YR 4/3 10YR 5/6 common faint gravelly silty clay loam, moist, friable 8 20 В 10YR 4/2 10YR 5/6 distinct gravelly clay, moist, firm manv Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Eroded surface. Soil profile matches sub-soil characteristics of Beecher WETLAND DETERMINATION Hydric Soils Present? **X** No X No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. Vegetation parameter altered. Field tile probably present.

Site: Inaugural South Suburban Airport

Locale: W04SW8
Date: October 8, 2008 15 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW8.inv

ntive 1 0 b 0	50.0% 0.0% 0.0%
b 0	
	0.0%
ne u	0.0%
ne 0	0.0%
rb 0	0.0%
rb 0	0.0%
rb 0	0.0%
ass 0	0.0%
ass 1	50.0%
dge 0	0.0%
dge 0	0.0%
_	
	orb 0 orb 0 cass 0 cass 1 edge 0

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME

CYPESC 0 Cyperus esculentus -1 [FAC+] Nt P-Sedge FIELD NUT SEDGE

5 UPL Ad A-Grass CORN ZEAMAY 0 ZEA MAYS

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W04SW-8 X Yes No Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled depression in corn field. Sparse corn crop in plot. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** Zea mays 20 2. Cyperus esculentus **FACW HERB** 30 8. 3. 9. 4. 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is present. Sparse crop and hydrophytic weeds **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 2 1/2 (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **0** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Crop stress and NRCS results further indicate that hydrology is present during the growing season. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Aр 3/2 NA NA NA NA Silty clay loam; wet, friable; saturated 15 В 10YR 4/1 10YR 5/6 common distinct Silty clay loam; wet, friable; 15 19 B2 10YR 5/2 10YR 5/6 prominent Silty clay; moist, very firm; Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and wetland hydrology must be present. (A10) 2 cm Muck (F3) Depleted Matrix X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** * Yes Hydric Soils Present? Nο X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in a wetland. *Sparse crop and hydrophytic weeds present. This area would likely support dominant hydrophytic vegetation under normal circumstances.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/08/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-8 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Successful crop in cornfield VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Zea mays 2. 8. 3. --9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Yes **X** No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ap 3/1 NA NA NA NA Silty clay loam; moist, friable 20 В 10YR 5/2 10YR 5/6 many distinct Clay; moist, very firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? X No Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. Successful corn crop and lack of wetland hydrology

Site: Inaugural South Suburban Airport

Locale: W04SW9
Date: October 9, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW9.inv

13 N 23 2.2 N 1.2 7.8 N 5.8 0.7 N 1.2	TTIC QUALITY DATA ATIVE SPECIES Total Species ATIVE MEAN C W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W W/Adventives aculative (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	13 1 1 2 0 7 0 1 0 1 0 0	56.5% 4.3% 4.3% 8.7% 0.0% 30.4% 0.0% 4.3% 0.0% 4.3% 0.0% 0.0%	Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	1 e 0 0 e 0 b 2 b 2 b 1 ss 1 ss 1	0.0% 0.0% 8.7% 8.7% 4.3% 4.3%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
ALLPET	O ALLIARIA PETIOLATA			0	FAC	Ad B-Forb	GARLIC MUSTARD
AMBARE	O Ambrosia artemisii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
ASTNOV	4 Aster novae-anglia	е		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
CHEALB	O CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusga	11i		-3	FACW	Nt A-Grass	BARNYARD GRASS
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0 SALIX FRAGILIS			-1	FAC+	Ad Tree	CRACK WILLOW
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SOLCAR	0 SOLANUM CAROLINENS	E		4	FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLJUN	5 Solidago juncea			5	UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4 Solidago nemoralis			5	UPL	Nt P-Forb	OLD-FIELD GOLDENROD
VIBDEN	0 VIBURNUM DENTATUM			5	UPL	Ad Shrub	ARROW-WOOD
VITRIP	2 Vitis riparia			-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-9 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Uncultivated, tiled drainageway in crop field VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Agrostis alba **FACW HERB** 45 7. Rosa multiflora **FACU** SHRUB Helianthus grosseserratus FACW-HERB 20 8. Salix fragilis FAC+ **TREE** 20 3. Daucus carota HFRB Morus alba FAC TREE 10 UPI 15 9. Festuca elatior UPL **HERB** 35 10. Crataegus mollis FACW-**TREE** 10 11. Toxicodendron radicans VINE FAC+ 35 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 71% Remarks: Hydrophytic vegetation is dominant. Depression next to narrow open channel **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review and landscape position. SOILS Map Unit Name: Ashkum silty clay loam/Markham silt lo Series Drainage Class: Poorly drained/Moderately well-drained Taxonomy (Subgroup): Typic Endoaquolls / Mollic Oxyaquic Field Observations Confirm Mapped Type? X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 A1 3/1 10YR few distinct Silty clay loam; moist, friable 10YR 6/4 many distinct 12 A2 10YR 3/1 10YR 4/2 few faint Silty clay; moist, friable 10YR 6/4 few distinct 12 10YR 20 В1 5/3 10YR distinct Clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/09/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-9 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tiled drainageway in cornfield VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Festuca elatior UPL **HERB** Daucus carota UPL **HERB** 10 8. Poa pratensis 3. FAC-**HERB** 35 9. Rubus allegheniensis FACU+ **SHRUB** 5 10. ----5. Morus alba FAC **TREE** 5 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR 4/2 NA Clay loam, moist, friable, rooty NA NA NA Αp 6 6 Α1 10YR 4/1 10YR 7/4 many distinct moist, firm, clay 10 A2 10YR 5/6 10YR 7/8 distinct moist, firm, clay few distinct 10YR 3/2 many 10 10YR 5/3 10YR 3/3 many distinct moist, firm, clay 12 14 B2 10YR 4/4 10YR 3/2 distinct moist, firm, clay many 10YR 5/2 many distinct 10YR 4/1 few faint 10YR 5/4 10YR 4/2 many distinct moist, firm, clay 14 20 В3 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (A16) Coast Prairie Redox (S4) Sandy Gleyed Matrix (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil horizons appear disturbed; probable remnant of field tile installation. WETLAND DETERMINATION Hydric Soils Present? **X** No Hydrophytic Vegetation Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: Inaugural South Suburban Airport

Locale: W04SW10
Date: October 9, 2008 4 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW10.inv

25 NA 33 T 2.1 NA 1.6 W 10.6 NA 9.2 W -0.6 NA -0.3 W	otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	0 11 0 1 2 0 0	75.8% 12.1% 15.2% 6.1% 0.0% 33.3% 0.0% 3.0% 6.1% 0.0% 0.0% 0.0%	Tree Shrub W-Vine H-Vine P-Forl B-Forl A-Forl P-Gras A-Gras	e 11 e () b 11 b () b () ss 4	3.0% 3.0% 3.0% 0.0% 3.0% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNO	MY COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Gras	s REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Fork	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Fork	PRAIRIE INDIAN HEMP
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Fork	PANICLED ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Gras	s HUNGARIAN BROME
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Fork	HEDGE BINDWEED
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Gras	s VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Gras	S TALL FESCUE
FRAVIR	1 Fragaria virginiana			1	FAC-	Nt P-Fork	WILD STRAWBERRY
GEUCAN	1 Geum canadense			0	FAC	Nt P-Fork	WOOD AVENS
HELGRO	2 Helianthus grossese	rratus		-2	FACW-	Nt P-Fork	SAWTOOTH SUNFLOWER
LEEVIR	7 Leersia virginica			-3	FACW	Nt P-Gras	s WHITE GRASS
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistyl	is		4	FACU-	Nt P-Fork	SMOOTH SWEET CICELY
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Gras	s REED CANARY GRASS
POLGVI	2 Polygonum virginian	um		0	FAC	Nt P-Fork	WOODLAND KNOTWEED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
ROSMUL	0 ROSA MULTIFLORA			3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SALDIS	2 Salix discolor			-3	FACW	Nt Shrub	PUSSY WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra			-5	OBL	Nt Tree	BLACK WILLOW

SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLCAN	1 Solidago canadensis	3 FACU	Nt P-Forb	CANADA GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TYPLAT	1 Typha latifolia	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL
VIBLEN	5 Viburnum lentago	-1 FAC+	Nt Shrub	NANNYBERRY
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: **R. Page** State: Illinois **Wetland Complex** Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Tiled drainageway VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name % Cover <u>Stratum</u> Agrostis alba **FACW HERB** 25 7. Populus deltoides FAC+ TREE 60 2. Solidago altissima **FACU HERB** 30 8. Prunus serotina **FACU** TREE 5 Bromus inermis HERB UPL 15 3. 35 9. Salix fragilis FAC+ TRFF Salix exigua UPL **HERB** 30 10. 5. Toxicodendron radicans FAC+ **SHRUB** <5 11. --Rosa multiflora FACU SHRUB < 5 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Plot is in shrubby/wooded portion of drainageway **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 6 A1 3/1 common distinct Silty clay loam; moist, friable 6 12 A2 10YR 2/1 10YR 6/4 few distinct Silty clay loam; moist, friable 12 10YR 2.5/2 18 В1 10YR common faint Silty clay; moist, firm 6/6 common distinct 18 20 B2 10YR 10YR 4/1 4/3 distinct Silty clay; moist, firm common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil horizons appear to be disturbed; may be remnant of drainage tile installation WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; T.Radke State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Large tiled drainageway with open channel in part; tile blowout present **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Crataegus mollis FACW-**SHRUB** 20 8. 3. Vitis riparia FACW-VINE 5 9. Toxicodendron radicans FAC+ **SHRUB** 10 10. --5. Morus alba FAC **TREE** 20 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant in the woody strata. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs X Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 12 3/2 10YR 6/4 few faint Silty clay; moist, friable 12 20 A2 10YR 3/2 NA NA NA NA Silty clay; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydric Soils Present? **X** No Nο Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: **S3** Yes (If yes, define below.) Remarks: Tiled drainageway VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Phalaris arundinacea FACW+ HERB 15 8. 3. Ulmus pumila UPL **SHRUB** 5 9. Crataegus mollis FACW-**SHRUB** 5 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 3/2 10YR 3/1 few distinct Silty clay loam; moist, friable; trace gravel 6 20 A2 10YR 3/1 10YR 6/4 distinct Silty clay loam; moist, friable; trace gravel few Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil profile may have been disturbed by past field tile installation. WETLAND DETERMINATION Hydric Soils Present? **X** No Hydrophytic Vegetation Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/09/08 Project/Site: **South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; Teri Radke #2: Robert Page State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-11 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway in corn field VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** Setaria faberi FACU+ **HERB** 10 8. 3. Ipomoea hederacea FAC **HERB** 9. 15 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS review and bare area in field Aerial photo shows apparent drainage pattern. Probable drain tile location. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ap 2/2 NA NA NA NA Silty clay loam; moist, friable; a few concretions 17 A2 10YR 3/2 10YR 6/4 few faint Silty clay loam; moist, friable 17 10YR 19 А3 3/2 10YR 6/8 common distinct Silty clay loam; moist, friable 19 10YR 10YR 20 B1 4/1 6/8 distinct Silty clay; moist, firm common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Nο Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Remarks: This plot is not located in wetland. Agricultural drainage tile is functioning

Site: Inaugural South Suburban Airport
Locale: W04SW12
Date: October 9, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW12.inv

FLORISTIC QUALITY DATA 6 NATIVE SPECIES 14 Total Species 0.3 NATIVE MEAN C 0.1 W/Adventives 0.8 NATIVE FQI 0.5 W/Adventives 0.7 NATIVE MEAN W 1.4 W/Adventives AVG: Faculative (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	6 1 0 0 0 2 0 2 0 1 0 0	42.9% 7.1% 0.0% 0.0% 0.0% 14.3% 0.0% 14.3% 0.0% 7.1% 0.0% 0.0%	Tree Shruk W-Vir H-Vir P-For B-For A-For	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% 0.0% 0.0% 14.3% 0.0% 28.6% 0.0% 14.3% 0.0%
ACRONYM C SCIENTIFIC NAME				W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE 0 ABUTILON THEOPHRAS	ГІ			4 FACU-	Ad A-Forb	VELVETLEAF
AMBTRI 0 Ambrosia trifida			-	1 FAC+	Nt A-Forb	GIANT RAGWEED
CHEALB 0 CHENOPODIUM ALBUM				1 FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU 0 Echinochloa crusga	11i		-	3 FACW	Nt A-Grass	BARNYARD GRASS
ERICAN 0 Erigeron canadensi	S			1 FAC-	Nt A-Forb	HORSEWEED
IPOHED 0 IPOMOEA HEDERACEA				0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
OXAEUR 0 Oxalis europaea				3 FACU	Nt P-Forb	TALL WOOD SORREL
PHYSUB 0 Physalis subglabra	ta			5 UPL	Nt P-Forb	TALL GROUND CHERRY
POLPER 0 POLYGONUM PERSICAR	IA			1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL 2 Populus deltoides			-	1 FAC+	Nt Tree	EASTERN COTTONWOOD
SETFAB 0 SETARIA FABERI				2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA 0 SETARIA GLAUCA				0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR 0 SOLANUM CAROLINENS	Ε			4 FACU-	Ad P-Forb	HORSE NETTLE
TAROFF 0 TARAXACUM OFFICINA	LE			3 FACU	Ad P-Forb	COMMON DANDELION

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-12 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Soil core point next to shallow channel VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** 80 Ambrosia trifida FAC+ **HERB** 10 8. 3. 9. 4. 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review and failed crops SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somehwhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR distinct 5/3 common 10YR distinct Silty clay; moist, friable 0 10 10YR 6/4 common 10 20 В 10YR 5/1 10YR 6/6 many distinct Clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydric Soils Present? Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/09/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: **R. Page** State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W04SW-12 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Vegetation parameter altered VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays 8. 2. 3. --9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is not dominant. Corn crop is successful **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalf Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR 3/2 10YR 6/4 common distinct Silty clay loam; moist friable 6 20 В 10YR 5/3 10YR distinct Silty clay; moist, firm 5/1 manv Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface **X** (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X No X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/10/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; Teri Radke #2: Matt Hildreth State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-13 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Tiled drainage in upland soil unit. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover Solidago altissima **FACU HERB** 50 **Bromus inermis** UPL **HERB** 50 8. 2. 3. 9. 4. 10. --5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. Sparse dandelion, giant foxtail, horse nettle, horsetail, and witch grass growing at west end. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Narrow, gullied channel along one side of area West end gully and sheet flow over bare area SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? No soil core taken* Taxonomy (Subgroup): Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils mapped. Bare soil appears to be eroded surface of sub-soil. *Wetland vegetation and hydrology are not present, so no soil core collected. WETLAND DETERMINATION **X** No Hydric Soils Present? No soil core taken* * No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? X No Yes Remarks: Plot is not located in a wetland. *Wetland vegetation and hydrology are not present, so no soil core collected.

Inaugural South Suburban Airport Site:

Locale: W04SW14

Locale: W04SW14
Date: October 10, 2008 1 hours
By: AECOM: T.Radke; M.Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W04SW14.inv

15 NA 28 T 1.3 NA 0.7 W 4.9 NA 3.6 W -2.0 NA -0.4 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	15 1 2 0 0 5 0 4 0 2 1 0	53.6% 3.6% 7.1% 0.0% 0.0% 17.9% 0.0% 14.3% 0.0% 7.1% 3.6% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra A-Sed	0 e 0 0 b 3 b 1 b 5 ss 1 ss 2 ge 0	3.6% 7.1%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAST	I		4	FACU-	Ad A-Forb	VELVETLEAF
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
CHEALB	0 CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CYPESC	O Cyperus esculentus			-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3 Epilobium coloratum			-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERICAN	0 Erigeron canadensis			1	FAC-	Nt A-Forb	HORSEWEED
EUPSUP	0 Euphorbia supina			4	FACU-	Nt A-Forb	SPOTTED CREEPING SPURGE
IPOHED	O IPOMOEA HEDERACEA			0	FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
PANDII	0 Panicum dichotomifl	orum		-2	FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POLPER	0 POLYGONUM PERSICARI	A		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RANABO	0 Ranunculus abortivu	S		-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RORPAF	4 Rorippa palustris f	ernaldiana		-5	OBL	Nt A-Forb	MARSH CRESS
SALDIS	2 Salix discolor			-3	FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0 SALIX FRAGILIS			-1	FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE			4	FACU-	Ad P-Forb	HORSE NETTLE
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINAL	E		3	FACU	Ad P-Forb	COMMON DANDELION

TYPGLA 1 Typha X glauca -5 OBL Nt P-Forb HYBRID CATTAIL XANSTR 0 XANTHIUM STRUMARIUM 0 FAC Ad A-Forb COCKLEBUR

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: M. Hildreth State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-14 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Severely eroded, tiled drainageway in cornfield. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Panicum dichotomiflorum FACW-**HERB** Cyperus esculentus **FACW HERB** 20 8. 2. Setaria faheri 3. HFRB 10 FACU+ 9. Salix exigua OBL **SHRUB** 20 10. --__ 5. Populus deltoides FAC+ **TREE** 25 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 10 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Fed by drainage swale from cornfield on north. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 7.5yr 0 3.5 A1 4/2 NA NA NA NA Loam; wet, friable 3.5 22 A2 10YR 5/2 10YR 5/6 many distinct Clay loam; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. Tiled channel is deeply entrenched and severely eroded.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: M. Hildreth State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W04SW-14 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Soil core is in cornfield; field tile is present VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays 2. 8. 3. --9. 4. --10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA_** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 7.5YR 0 3.5 Ap 3/2 NA NA NA NA Clay loam; moist firm 3.5 19 В1 10Y 6/1 10yr 5/8 prominent Sandy clay loam; moist, friable many 7.5YR 5/6 19 Sandy loam; saturated, friable 24 B2 10YR 5/2 NΑ NA NA Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Inaugural South Suburban Airport Site:

Locale: BWC-W04a
Date: 10/7/2008 4 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04a.inv

25 35 2.5 1.8 12.4 10.5 -0.8 0.3	STIC QUALITY DATA NATIVE SPECIES TOTAL SPECIES NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	25 5 5 2 1 6 0 3 3 0 0	71.4% 14.3% 14.3% 5.7% 2.9% 17.1% 0.0% 8.6% 0.0% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For A-Gra A-Gra A-Sed	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	28.6% 2.9% 2.9% 0.0% 0.0% 2.9% 8.6% 2.9% 8.6% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS			5	UPL	Ad B-Forb	COMMON BURDOCK
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CELOCC	3 Celtis occidentalis	3		1	FAC-	Nt Tree	HACKBERRY
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	O DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELYCAN	4 Elymus canadensis			1	FAC-	Nt P-Grass	CANADA WILD RYE
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratur	n		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPRUG	4 Eupatorium rugosum			5	UPL	Nt P-Forb	WHITE SNAKEROOT
EUPSEM	0 Eupatorium serotinu	ım		-1	FAC+	Nt P-Forb	LATE BONESET
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORRUB	10 Morus rubra			1	FAC-	Nt Tree	RED MULBERRY
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	EΑ		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites austral:	is		-4	FACW+	Nt P-Grass	COMMON REED
PHYAME	1 Phytolacca american	na		1	FAC-	Nt P-Forb	POKEWEED
POLPEN	O Polygonum pensylvar	nicum		-4	FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICAR:	IA		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POLPUN	6 Polygonum punctatur	m		-5	OBL	Nt A-Forb	SMARTWEED
POLSCN	1 Polygonum scandens			0	FAC	Nt H-Vine	CLIMBING FALSE BUCKWHEAT

POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

Site: Inaugural South Suburban Airport
Locale: BWC-W04b
Date: October 7, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04b.inv

13 NA 20 T 2.0 NA 1.3 W 7.2 NA 5.8 W -0.5 NA 0.1 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	13 3 4 0 0 3 0 1 1 1 0 0	65.0% 15.0% 20.0% 0.0% 0.0% 15.0% 0.0% 5.0% 5.0% 5.0% 0.0% 0.0%	Advent Tree Shrub W-Vine H-Vine P-Fort B-Fort A-Fort P-Gras A-Gras P-Sedo	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35.0% 0.0% 0.0% 0.0% 0.0% 0.0% 10.0% 0.0% 20.0% 5.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grossese	rratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHYAME	1 Phytolacca american	a		1	FAC-	Nt P-Forb	POKEWEED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PREALB	5 Prenanthes alba			3	FACU	Nt P-Forb	LION'S FOOT
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
RUBALL	3 Rubus allegheniensi	S		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra			-5	OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis			-2	FACW-	Nt Shrub	ELDERBERRY
SETGLA	0 SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL

Site: Inaugural South Suburban Airport
Locale: BWC-W04c
Date: October 7, 2008 2 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final4\BWCW04c.inv

FLORIST	IC QUALITY DATA	Native	7	77.8%	Adven	tive 2	22.2%
7 NA	TIVE SPECIES	Tree	1	11.1%	Tree	0	0.0%
9 T	otal Species	Shrub	0	0.0%	Shrub	0	0.0%
0.6 NA	TIVE MEAN C	W-Vine	0	0.0%	W-Vin	e 0	0.0%
0.4 W	/Adventives	H-Vine	0	0.0%	H-Vin	e 0	0.0%
1.5 NA	TIVE FQI	P-Forb	1	11.1%	P-For	b 0	0.0%
1.3 W	/Adventives	B-Forb	0	0.0%	B-For	b 0	0.0%
-1.4 NA	TIVE MEAN W	A-Forb	3	33.3%	A-For	b 1	11.1%
-0.4 W	/Adventives	P-Grass	0	0.0%	P-Gra	ss 1	11.1%
AVG: Fa	culative (+)	A-Grass	2	22.2%	A-Gra	ss 0	0.0%
		P-Sedge	0	0.0%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	-	0.0%
		Cryptogam	0	0.0%		,	
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	O Ambrosia artemisiif	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
ECHCRU	0 Echinochloa crusgal	.li		-3	FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	0 Panicum dichotomifl	orum		-2	FACW-	Nt A-Grass	KNEE GRASS
POLPEN	0 Polygonum pensylvan	nicum		- 4	FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICARI	Ä		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke State: Illinois Do Normal Circumstances Exist On The Site? Stream X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: BWC-W04 X Yes Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: On spoil bank west of excavated Black Walnut Creek channel. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Phalaris arundinacea FACW+ HERB Acer negundo FACW-TREE 10 Sambucus canadensis FACW-**SHRUB** 15 8. Ambrosia trifida FAC+ **HERB** 10 2. SHRUB 3. Salix interior OBI 5 9. Solidago altissima FACU HERB 10 10. 5. Rubus allegheniensis FACU+ **SHRUB** 10 11. Morus alba TREE FAC 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: **Drummer silty clay loam** Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Ap 3/1 NA NΑ NA Moist, Friable, silty clay loam 5 12 Α1 10YR 3/1 10YR 4/6 common distinct Moist, Friable, silty clay loam 10YR 4/6 common distinct 10YR 6/4 faint Moist, Friable, silty clay loam 10YR 7/5YR prominent this mottle at 18"-20" 12 20 A2 3/1 5/8 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present?

Is This Sampling Point Within A Wetland?

Wetland Hydrology Present?

X Yes

Remarks: This plot is located in wetland.

No

No

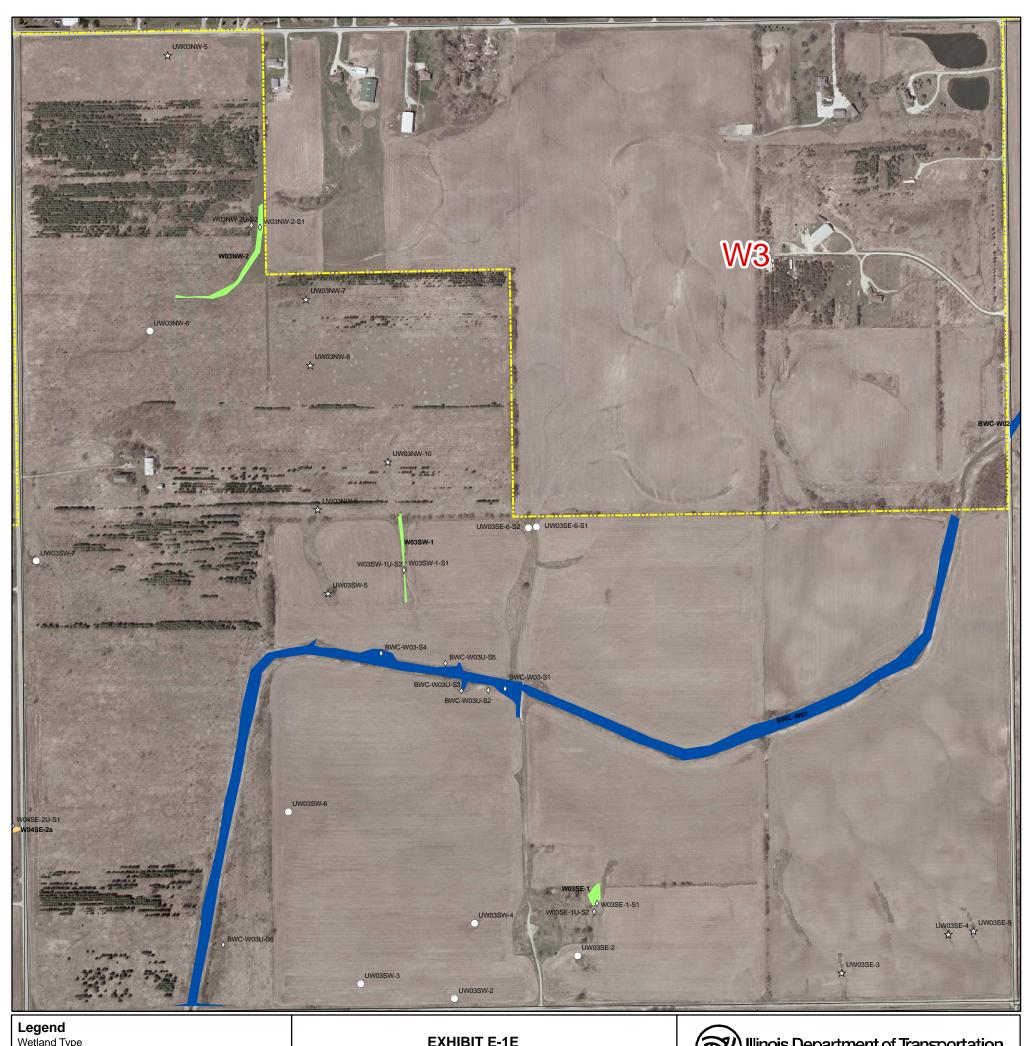
X Yes

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/06/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: BWC-W04 X Yes Is The Area A Potential Problem Area? X No Plot ID: SC-2 Yes (If yes, define below.) Remarks: Dredge spoil along banks of Black Walnut Creek. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** 80 Ambrosia trifida FAC+ **HERB** 10 8. 3. Daucus carota UPI **HFRB** 9. 10 Celtis occidentalis FAC-**SHRUB** 50 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Drummer silty clay loam Series Drainage Class: **Poorly drained** . Typic Haplaquoll Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 15 Α1 3/2 NA NA NA Moist, friable, Sandy clay loam 15 20 A2 10YR 3/2 10YR 6/6 prominent Moist, friable, Silty clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Appendix E Section Will 03

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
W03NW-2-S1	24	Yes	F 0	Photo SW
W03NW-2U-S2	23	Yes	5.6	
UW03NW-5	NA	NA	NA	Photo SW
UW03NW-6	12	Yes	NA	Photo SW
UW03NW-7	NA	NA	NA	Photo NE
UW03NW-8	NA	NA	NA	Photo W
UW03NW-9	NA	NA	NA	Photo W
UW03NW-10	NA	NA	NA	Photo N
W03SE-1-S1	23	Yes	0.4	
W03SE-1U-S2	23	No	6.1	
UW03SE-2	23	No	NA	
UW03SE-3	NA	NA	NA	Photo NW
UW03SE-4	NA	NA	NA	Photo NW
UW03SE-5	NA	NA	NA	Photo N
UW03SE-6-S1	12	No	NA	Photo S
UW03SE-6-S2	23	No	NA	
W03SW-1-S1	24	Yes		Photo S
W03SW-1U-S2	23	No	6.4	Photo S
UW03SW-2	9	No	NA	Photo E
UW03SW-3	12	No	NA	Photo W
UW03SW-4	18	No	NA	Photo SE
UW03SW-5	12	NA	NA	Photo N & S
UW03SW-6	12	No	NA	Photo E
UW03SW-7	23	No	NA	Photo E
BWC-W03-S1	23	Yes		Photo NE
BWC-W03U-S2	23	No		Photo W
BWC-W03-S3	23	Yes		Photo NW
BWC-W03-S4	21	Yes	13.6	Photo S
BWC-W03U-S5	21	No		
BWC-W03U-S6	24	No		Photo S & NE, No data form

NA = not applicable



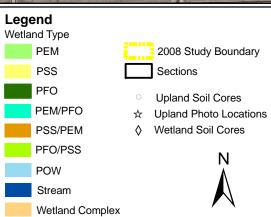
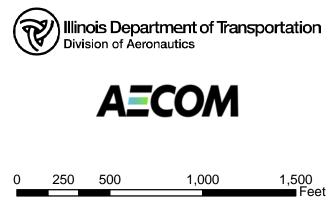


EXHIBIT E-1E
Will Township Section 3
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport



Site: Inaugural South Suburban Airport Locale: $$\tt W03NW2$$

Date: September 23, 2008 30 minutes

By: AECOM: S. Johnson; T. Schultz

File: c:\FQA\studies\SSA\Wetlands2008\Final\W03NW2.inv

14 NA 22 T 1.5 NA 1.0 W 5.6 NA 4.5 W -1.6 NA -0.2 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	14 0 0 1 0 5 0 4 0 2 2 0	63.6% 0.0% 0.0% 4.5% 0.0% 22.7% 0.0% 18.2% 0.0% 9.1% 9.1% 0.0%	Adventer Tree Shrub W-Vin H-Vin B-For A-For A-Gra A-Gra A-Sed	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	36.4% 0.0% 0.0% 0.0% 18.2% 4.5% 0.0% 13.6% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CXSTRI	5 Carex stricta			-5	OBL	Nt P-Sedge	COMMON TUSSOCK SEDGE
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CONSEP	1 Convolvulus sepium			0	FAC	Nt P-Forb	HEDGE BINDWEED
ECHCRU	0 Echinochloa crusgal	lli		-3	FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNTEN	0 Juncus tenuis			2	[FACU+]	Nt P-Forb	PATH RUSH
MELALB	0 MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PANDII	0 Panicum dichotomif	lorum		-2	FACW-	Nt A-Grass	KNEE GRASS
PILPUM	5 Pilea pumila			-3	FACW	Nt A-Forb	CLEARWEED
PLALAN	0 PLANTAGO LANCEOLATA	A		0	FAC	Ad P-Forb	ENGLISH PLANTAIN
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPEN	0 Polygonum pensylvar	nicum		-4	FACW+	Nt A-Forb	PINKWEED
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINAI	Œ		3	FACU	Ad P-Forb	COMMON DANDELION
TRIPRA	0 TRIFOLIUM PRATENSE			5	UPL	Ad P-Forb	RED CLOVER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/22/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W03NW-2 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Mowed, grassed waterway. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name **Stratum** % Cover Taraxacum officinale **FACU HERB** 7. Poa pratensis FAC-**HERB** 50 8. Trifolium pratense FACU+ **HERB** 9. 3. 20 Panicum dichotomiflorum FACW-**HERB** 5 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 1 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test 0** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics mucky 10YR 0 8 Ар NA NA NA NA silt loam, moist, friable 8 13 10YR 2/1 10YR 5/4 distinct silty clay, moist, friable Αp few 10YR 13 21 10YR 4/1 5/6 common prominent clay, moist ,friable 10YR 10YR В 5/1 5/6 21 24 prominent clay, moist ,friable common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. This plot meets the soil and hydrology criteria, but not the vegetation criterion. Hydrophytic vegetation will likely become established if the

area is not disturbed (I.e., mowed and maintained).

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland X Yes Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W03NW-2 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Mowed, grassed waterway. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Solidago altissima FACU **HERB** 7. Taraxacum officinale **FACU HERB Bromus inermis** UPL **HERB** 30 8. Pinus strobus* **FACU TREE** 10 Poa pratensis **HERB** Rosa multiflora SHRUB FAC-20 9. **FACU** 15 3. Ambrosia trifida FAC+ **HERB** 5 10. Cornus racemosa UPL SHRUB 10 Daucus carota UPL **HERB** 5 11. Morus alba FAC **TREE** 5 5. Helianthus grosseserratus FACW-HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 17% Remarks: Hydrophytic vegetation is not dominant. *Tree planted **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 10 Aр 3/2 NA NA NA NA silty clay loam, moist, friable 10 13 10YR 3/1 NA NA NA NA silty clay loam, moist, friable Αp 13 23 10YR 5/1 10YR 5/6 В common distinct clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/22/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W03NW-5 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: This location is an upland, old field habitat. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL HERB 7. **FACU** SHRUB Lonicera tatarica Setaria faberi FACU+ **HERB** 8. 2. Poa pratensis **HFRB** ------3. FAC-9. Asclepias syriaca UPL **HERB** --10. __ --Solidago altissima FACU **HERB** 11. 5. Morus alba FAC TRFF 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. Upland grasses are dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *Wetland vegetation and hydrology are absent so no soil core collected. WETLAND DETERMINATION **X** No Hydric Soils Present? * No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No Yes X No Remarks: This plot is not located in wetland. *Wetland vegetation and hydrology are absent so no soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W03NW-6 Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Plot is located in a low lying, disturbed area in tree plantation and was investigated as a possible extension of W03NW-3. There are potential drain tiles in the investigation area. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Solidago altissima **FACU HERB** Poa pratensis FAC-**HERB** 30 2. Daucus carota UPL **HERB** 10 8. Ambrosia artemisiifolia **FACU HERB** 10 **HFRB** 9. Asclepias syriaca UPI 5 Juglans nigra TREE 3. **FACU** 10 Trifolium pratense FACU+ **HERB** 15 10. Agrostis alba **FACW HERB** 15 11. 5. Aster lateriflorus FACW-HFRB 10 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Ap NΑ NΑ NΑ NA silty clay loam, moist, friable 10YR 3/2 common prominen 12 10YR 6/1 10YR 5/8 common prominent clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and X (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present within small disturbed low area. Tire tracks present. **WETLAND DETERMINATION** X No Hvdric Soils Present? Nο Hydrophytic Vegetation Present? X Yes Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No

Hydric soils are present, but wetland hydrology and hydrophytic vegetation do not support wetland determination.

Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W03NW-7 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: NRCS slide review site. Scrubby old field in tree plantation Plot is on part of an farm access trail that appeared to be a drainage feature on aerial. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Prunus serotina TREE 7. HERB **FACU** Asclepias syriaca UPL Pinus strobus* **FACU TREE** 8. Poa pratensis FAC-**HERB** Solidago altissima FACU **HFRB** 9. 3. --Bromus inermis UPL **HERB** --10. --Melilotus alba **FACU HERB** 11. 5. Juglans nigra FACU TRFF 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. *Planted tree. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since wetland vegetation and hydrology parameters absent. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? *No soil core collected Yes * No Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. *No soil core collected since wetland vegetation and hydrology parameters absent.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03NW-8 Yes X No Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: This plot is located on top of a hill in upland, old field habitat in tree plantation. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Thuja occidentalis* **FACW** TREE 7. Quercus rubra* FACU TREE Daucus carota UPL **HERB** 8. Quercus alba* **FACU** TREE Solidago altissima FACU **HFRB** 9. 3. --Bromus inermis UPL **HERB** --10. --Elaeagnus umbellata UPL **SHRUB** 11. 5. FAC+ Toxicodendron radicans SHRUB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. *Planted tree **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since vegetation and hydrology parameters absent. **WETLAND DETERMINATION** Hydric Soils Present? No soil core collected* * No Hydrophytic Vegetation Present? X No Yes Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. *No soil core collected since vegetation and hydrology parameters absent.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03NW-9 Yes X No Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: NRCS slide review site near tile feature. Plot is in upland old field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Pinus strobus* **FACU** TREE 7. FACU TREE Prunus serotina Daucus carota UPL **HERB** 8. Quercus alba* **FACU** TREE Solidago altissima FACU **HFRB** 9. Rubus occidentalis UPI SHRUB 3. --Bromus inermis UPL **HERB** --10. Fraxinus sp. unknown TREE --Aster pilosus FACU+ **HERB** 11. Juglans nigra **FACU** TREE 5. SHRUB Toxicodendron radicans FAC+ 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. *Planted tree **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since vegetation and hydrology parameters absent **WETLAND DETERMINATION** Hydric Soils Present? No soil core collected* * No Hydrophytic Vegetation Present? X No Yes Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. *No soil core collected since vegetation and hydrology parameters absent

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03NW-10 Yes X No Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: NRCS slide review site. Plot is on part of an access trail that appeared to be a drainage feature on aerial. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Melilotus alba **HERB** 7. **FACU** Daucus carota UPL **HERB** 8. Solidago altissima FACU **HFRB** --3. 9. --Bromus inermis UPL **HERB** --10. --Quercus rubra* **FACU** TREE 11. 5. Quercus alba* FACU TRFF 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. No cover percentages recorded. *Planted tree **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Markam silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Map Unit Name: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Taxonomy (Subgroup): Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since wetland vegetation and hydrology parameters absent. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core collected* Yes * No Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland. *No soil core collected since wetland vegetation and hydrology parameters absent.

Site: Inaugural South Suburban Airport Locale: W03SE1

Date: September 9, 2008 30 minutes

By: AECOM: S. Johnson; T. Schultz

File: c:\FQA\studies\SSA\Wetlands2008\Final\W03SE1.inv

FLOR	ISTIC QUALITY DAT	Ά	Native	6	50.0%	A	dventi	ve 6	50.0%
6	NATIVE SPECIES		Tree	0	0.0%	T	ree	1	8.3%
12	Total Species		Shrub	0	0.0%	S	hrub	0	0.0%
2.5	NATIVE MEAN C		W-Vine	0	0.0%	W	-Vine	0	0.0%
1.3	W/Adventives		H-Vine	0	0.0%	Н	-Vine	0	0.0%
6.1	NATIVE FQI		P-Forb	1	8.3%	P	-Forb	0	0.0%
4.3	W/Adventives		B-Forb	0	0.0%	В	-Forb	1	8.3%
-2.3	NATIVE MEAN W		A-Forb	3	25.0%	A	-Forb	1	8.3%
-0.7	W/Adventives		P-Grass	1	8.3%	P	-Grass	2	16.7%
AVG:	Fac. Wetland (-)		A-Grass	1	8.3%	A	-Grass	1	8.3%
			P-Sedge	0	0.0%	P	-Sedge	0	0.0%
			A-Sedge	0	0.0%	A	-Sedge	0	0.0%
			Cryptogam	0	0.0%				
CRONYM	C SCIENTIFIC	NAME			1	W WETN	ESS P	PHYSIOGNOMY	COMMON
MARET	0 AMARANTHUS	RETROFLEX	US		;	2 FACU	+ A	dd A-Forb	ROUGH A

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
AMBTRI	O Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
LACSER	0 LACTUCA SERRIOLA	0 FAC	Ad B-Forb	PRICKLY LETTUCE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANCAP	1 Panicum capillare	0 FAC	Nt A-Grass	OLD WITCH GRASS
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLHYS	7 Polygonum hydropiperoides	-5 OBL	Nt P-Forb	MILD WATER PEPPER
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/09/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No **PEM** Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: W03SE-1 Is The Area A Potential Problem Area? Plot ID: S1 X Yes Nο (If yes, define below.) Remarks: Area is part of grassed waterway with drainage tile. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name **Stratum** Polygonum hydropiper OBL HERB 7. Abutilon theophrasti FACU-HERB 2 Bromus inermis UPL **HERB** 30 8. Lactuca serriola FAC **HERB** 2 Setaria faheri FACU+ **HFRB** 9. Polygonum hydropiperoides OBI **HERB** 15 3. 10 Phalaris arundinacea FACW+ **HERB** 10. 60 5. Ambrosia trifida FAC+ **HERB** 20 11. Morus alba FAC **TREE** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) **X** Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slope Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contras and other soil characteristics. 10YR 0 0 2/2 NΑ NΑ NA NΑ muck, moist, friable 10YR 5/6 few distinct oxidized rhizospheres 20 10YR 2/1 5YR 4/6 distinct silt loam, moist, friable few Α 20 10YR 2/1 23 В 5YR 4/6 few prominent silty clay loam, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and **X** (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Drummer silty clay loam is the adjacent mapped unit. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes Nο X Yes Nο Remarks: This plot is located within a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/09/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No X Yes Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W03SE-1 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Adjacent to drain-tiled field NRCS slide review site VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Poa pratensis FAC-HERB 7. Secale cereale UPL HERB 80 1 Bromus inermis UPL **HERB** 25 8. Dactylis glomerata **FACU HERB** 5 Daucus carota UPI **HFRB** 5 9. Trifolium pratense FACU+ **HFRB** 5 3. Cirsium arvense FACU HERB 5 10. --Taraxacum officinale **FACU HERB** 10 11. 5. **HFRB** Ambrosia trifida FAC+ 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS 1ap Unit Name: Markham silt loam, 4 to 6 percent slope Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 10 Ар 3/1 NA NA NA NA silt loam, moist, friable 10 14 Α 10YR 3/2 10YR 6/6 common distinct clay, moist, friable 23 В 10YR 5/3 10YR 14 5/6 common faint clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (A16) Coast Prairie Redox (S4) Sandy Gleyed Matrix (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located within a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 **Inaugural South Suburban Airport** Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Sarah Johnson Illinois Investigator #1: #2: Tory Schultz State: Upland Do Normal Circumstances Exist On The Site? Community ID: X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: W03SE-2 Is The Area A Potential Problem Area? Plot ID: S1 X Yes No (If yes, define below.) Remarks: Uncultivated area with large downed tree at edge of cultivated field. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Cornus amomum FACW+ **SHRUB** 40 7. Rumex crispus FAC+ HERB 3 Bidens connata OBL **HERB** 35 8. Daucus carota UPL **HERB** 5 2. Setaria faberi FACU+ **HFRR** 25 9 Fraxinus pennsylvanica FACW **TRFF** 3. 5 4. Abutilon theophrasti FACU-HERB 5 10 Parthenocissus quinquefolia FAC-HERB 1 5. Arctium minus UPL **HERB** 5 Chenopodium album FAC-**HERB** 5 11. Solidago altissima FACU HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-75% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Yes X No Profile Description: Matrix Color Mottle Colors **Bottom** Mottle Texture, moisture, consistency, organic material, Top Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth Depth 0 13 10YR 2/1 NA NΑ NA NΑ silt clay loam, moist, friable Αp 13 17 Α 10YR 2/1 10YR 6/6 few distinct silt, clay loam, moist, friable 17 23 В 10YR 3/2 10YR 5/6 distinct clay, moist, friable common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X No Yes X No Yes Remarks: This plot is not located in a wetland. Wetland vegetation is present in the SHRUB and TREE layers, but becomes sparse in the HERB layer. Wetland hydrology and hydric soils were not present.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 09/22/08 Project/Site: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? **X** Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X Yes Station ID: W03SE-3 No Is The Area A Potential Problem Area? Plot ID: X No NA Yes (If yes, define below.) Remarks: Grassed waterway. Drainage tile present. NRCS slide review site VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Bromus inermis UPL **HERB** Festuca elation UPL HERB Cirsium arvense FACU HFRB --8. Solidago altissima FACU **HERB** 3. Physalis heterophylla UPL HERB --9. Glycine max UPL **HERB** 10. UPL HERB 5. Daucus carota 11. --UPL Secale cereale **HERB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: **NA** (in.) Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test** NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erode Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics. Depth Depth Abundance/Contrast Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since wetland vegetation and hydrology absent. WETLAND DETERMINATION * No X No Hydric Soils Present? No soil core* Yes Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes **X** No Is This Sampling Point Within A Wetland? Yes **X** No Remarks: This plot is not located in wetland. *No soil core collected since wetland vegetation and hydrology are absent.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: Inaugural South Suburban Airport Date: 09/22/08 Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? **X** Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X Yes Station ID: W03SE-4 No Is The Area A Potential Problem Area? Plot ID: X No NA Yes (If yes, define below.) Remarks: Grassed waterway, agricultural area. NRCS slide review site VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Bromus inermis UPL **HERB** 7. Festuca elation UPL **HERB** Cirsium arvense FACU HFRB 8. 3. Physalis heterophylla UPL HERB --9. HERB Glycine max UPL 10. UPL HERB 5. Daucus carota 11. --FAC+ Ambrosia trifida HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not collected. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: **NA** (in.) Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test** NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erode Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics. Depth Depth Abundance/Contrast Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since wetland vegetation and hydrology absent. WETLAND DETERMINATION X No Hydric Soils Present? No soil core taken* Yes Hydrophytic Vegetation Present? Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes **X** No Yes **X** No Remarks: This plot is not located in wetland. * No soil core collected since wetland vegetation and hydrology absent.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/22/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W03SE-5 Is The Area A Potential Problem Area? **X** No Plot ID: NA Yes (If yes, define below.) Remarks: Grass waterway, agricultural area. NRCS slide review site VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover Setaria faberi FACU+ **HERB** 7. Rubus occidentalis **SHRUB** UPL Bromus inermis UPL **HERB** 8. Cirsium arvense **FACU** HERB Glycine max UPI 3. HFRB --9. Ambrosia trifida FAC+ **HERB** __ 10. __ Ambrosia artemisiifolia **FACU HERB** 11. Melilotus officinalis FACU HFRB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages were not recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected* Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Upland soils are mapped. *No soil core collected since wetland vegetation and hydrology absent. WETLAND DETERMINATION **X** No Hydric Soils Present? No soil core collected* * No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes **X** No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. *No soil core collected since wetland vegetation and hydrology absent.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: **Upland** X Yes No No Is The Site Significantly Disturbed (Atypical Situation)? X Yes Station ID: W03SE-6 X No Is The Area A Potential Problem Area? Plot ID: S1 Yes (If yes, define below.) Remarks: Confluence of east/west drain tiles into central grassed waterway. NRCS slide review site VEGETATION **Dominant Species (50/20 Rule)** Species Name Ind.Status Stratum % Cove Species Name Ind. Status Stratum % Cover Phalaris arundinacea FACW+ HERB 100 7. 2. 8. --9 --__ 3. 4. 10. 5. 11. 6. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Drain tile system is effective in removing wetland hydrology NRCS Slide Review SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Matrix Color Top **Bottom** Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 12 10YR 3/2 NΑ NA NΑ NΑ sandy clay, moist, friable Αp Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (F7) Depleted Dark Surface (A12) Thick Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. Upper 12 inches checked for presence of hydric indicators. Wetland hydrology is absent. WETLAND DETERMINATION Hydric Soils Present? X Yes Hvdrophytic Vegetation Present? No Yes X No X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Remarks: This plot is not located in wetland

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Upland Do Normal Circumstances Exist On The Site? Community ID: X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W03SE-6 Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tiled, grassed waterway. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cove Species Name Ind. Status **Stratum** % Cover **Bromus inermis** UPL HERB 75 7. Helianthus grosseserratus FACW-**HERB** 15 8. 2. Solidago altissima FACU **HFRR** 9 --__ 3. 25 4. Solanum carolinense FACU-**SHRUB** 5 10. 5. 11. 12 0% Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophyic species are not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: NA (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Small drainage ditch, may be indicator of broken drain tile NRCS Slide Review SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color **Bottom** Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Depth 0 3 10YR 3/2 NΑ NA NA NΑ Ар silty clay loam, moist, friable 3 23 10YR 3/1 NA NA NA NA silty clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (S5) Sandy Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydric Soils Present? Hydrophytic Vegetation Present? Yes X No Yes X No Wetland Hydrology Present? X Yes Is This Sampling Point Within A Wetland? No Yes X No Remarks: This plot is not located in a wetland. Small eroded depression present, but surrounding soils and vegetation have no hydric or hydrophytic indicators.

Site: Inaugural South Suburban Airport

Locale: W03SW1

PLAMAJ

POLHYR

RUBOCC

Date: September 9, 2008 30 minutes By: AECOM; S. Johnson; T. Schultz File: c:\FQA\studies\SSA\W03SW1.inv

0 PLANTAGO MAJOR

2 Polygonum hydropiper

2 Rubus occidentalis

FLORIST	TIC QUALITY DATA	Native	7	70.0%	Adven	tive 3	30.0%
7 NA	ATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
10 7	Total Species	Shrub	1	10.0%	Shrub	0	0.0%
2.4 NA	ATIVE MEAN C	W-Vine	0	0.0%	W-Vin	e 0	0.0%
1.7 V	V/Adventives	H-Vine	0	0.0%	H-Vin	e 0	0.0%
6.4 NA	ATIVE FQI	P-Forb	3	30.0%	P-For	b 1	10.0%
5.4 V	N/Adventives	B-Forb	0	0.0%	B-For	b 1	10.0%
-1.6 NA	ATIVE MEAN W	A-Forb	2	20.0%	A-For	b 0	0.0%
-0.2 V	N/Adventives	P-Grass	0	0.0%	P-Gra	ss 1	10.0%
AVG: Fa	ac. Wetland (-)	A-Grass	0	0.0%	A-Gra	ss 0	0.0%
		P-Sedge	1	10.0%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTPUP	8 Aster puniceus			-5	OBL	Nt P-Forb	BRISTLY ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP

-1 FAC+

-3 FACW

5 UPL

Ad P-Forb

Nt A-Forb

Nt Shrub

COMMON PLANTAIN

BLACK RASPBERRY

WATER PEPPER

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03SW-1 Yes X No Is The Area A Potential Problem Area? X Yes Plot ID: S1 No (If yes, define below.) Remarks: Small channel depression within a grassed waterway. Drain tile appears to have been removed. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Carex vulpinoidea OBL HERB 7. **FACW** HERB Aster paludosus 5 Helianthus grosseserratus FACW-**HERB** 10 8. Rubus occidentalis UPL **SHRUB** 5 Polygonum hydropiper UPL **HFRB** Pastinaca sativa **HERB** 10 3. OBL 5 9. Ambrosia trifida FAC+ **HERB** 5 10. Plantago major FAC+ **HERB** 7 Geum canadense FAC **HERB** 7 11. 5. 10 Bromus inermis UPL HERB Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50%* Remarks: *Hydrophytic vegetation is not dominant using the 50/20 rule calculation but passes using the FAC neutral test. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test **NA** (in.) Depth to Saturated Soil: Other (Explain in Remarks) Remarks: Wetland hydrology is present. Cut-bank present NRCS Slide Review SOILS Markham silt loam/Drummer silty clay loam Map Unit Name: Series Drainage Class: Moderately well drained/poorly drained Taxonomy (Subgroup): Oxyaquic Hapludalfs/Typic Endoaqı Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Mottle Colors Top **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ар 3/2 NA NA NA NA silt loam, moist, friable 3 11 Α 10YR 3/2 10YR 5/6 common dominant silty clay loam, moist, friable 10YR 5/2 11 21 Α 7.5YR 5/8 common dominant sandy clay, moist, friable В 24 10YR 5/2 7.5YR 5/8 common dominant clay, moist, friable 21 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic Other (Explain in Remarks) (S6) Stripped Matrix (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface **X** (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? Nο X Yes Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located within a wetland. *A positive indicator for hydrophytic vegetation was obtained with the FAC neutral test.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03SW-1 X Yes No Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Small channel depression within a grass waterway, drain tile appears to have been removed NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind. Status % Cover Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> Solidago altissima FACU HERB UPL **SHRUB** Rubus occidentalis 5 Helianthus grosseserratus FACW-HERB 10 8. Daucus carota **HFRB** 3. UPI 2 9. Ambrosia trifida FAC+ **HERB** 5 10. --Pastinaca sativa UPL HERB 2 11. 5. UPL Bromus inermis **HERB** 80 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **NA** (in.) **FAC-Neutral Test** Depth to Saturated Soil: Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam/Drummer silty clay loam Series Drainage Class: Moderately well drained/poorly drained Taxonomy (Subgroup): Oxyaquic Hapludalfs/Typic Endoaq Field Observations Confirm Mapped Type? X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 Ар 10YR 2/2 NA NA NA NA silty clay loam, moist, friable 21 Α 10YR 2/1 NA NA NA NA silty clay loam, moist, friable 21 10YR 10YYR 23 В 3/2 5/6 common dominant sandy clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Profile matches Ashkum profile but does not contain hydric indicators **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X No Is The Site Significantly Disturbed (Atypical Situation)? X Yes Station ID: W03SW-2 No Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Cultivated field near culvert outlet NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Zea mays **HERB** Abutilon theophrasti FACU-**HERB** 8. Chenopodium album FAC-**HFRB** 9. 3. --Setaria faberi FACU+ **HERB** --10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Scour marks show that water moves through the area during rain events, but there is no sign of prolonged inundation. NRCS Slide Review SOILS Map Unit Name: **Ashkum silty clay loam, 0 to 2 percent s** Series Drainage Class: Poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: **Bottom** Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. n Ap 10YR NA NA NA silt loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils mapped. No soil sample was collected, because wetland vegetation and hydrology were absent. Because of signs of scour observed on the soil surface, the upper layers of the soil were briefly examined for evidece of redox. WETLAND DETERMINATION **X** No Hydric Soils Present? Soil core not collected* * No Hydrophytic Vegetation Present? Yes Yes Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in a wetland. *Wetland vegetation and hydrology are not present, so a soil sample was not collected.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/10/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X Yes No Station ID: W03SW-3 Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Eroded, cultivated field near culvert. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** Zea mays Ambrosia artemisiifolia **FACU HERB** 8. 2. 9. 3. --4. --10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentage data not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR 10YR 6 Ар 4/3 5/6 few faint sandy clay loam, moist, friable 6 12 10YR 5/4 10YR 5/6 few faint clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil profile appears to be eroded sub-soil surface of Markham **WETLAND DETERMINATION** Hydric Soils Present? X No Hydrophytic Vegetation Present? X No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes **X** No Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 Project/Site: **Inaugural South Suburban Airport** County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? **X** No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03SW-4 X Yes No Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Stressed corn crop on eroded slope NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Ind. Status Species Name **Stratum** % Cover Cyperus esculentus FAC+ **HERB** 20 Abutilon theophrasti FACU-HERB 8. 5 Setaria faberi HERB 50 FACU+ 9. Zea mays UPL **HERB** 25 10. --__ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present NRCS Slide Review SOILS Map Unit Name: **Beecher silt loam, 2 to 4 percent slopes** Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ap 3/1 NA NA NΑ NA loam, moist, friable 18 10YR 2/1 NA NA NA NA silty clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil profile appears to have a top layer of sediment deposition over a buried horizon. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located within a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/10/08 Project/Site: **Inaugural South Suburban Airport** Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W03SW-5 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled grassed waterway NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bromus inermis UPL HERB FACU+ HERB Lactuca canadensis 2. Prunus americana UPL TREE 8. Solanum dulcamara FAC HERB Solidago altissima FACU HERB --9. 3. --Lonicera tatarica FACU* **SHRUB** --10. __ Rubus occidentalis UPL **SHRUB** 11. 5. UPI HFRB Pastinaca sativa 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 12 Ap NA silt clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located within a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/11/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W03SW-6 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Field drainage tile outlet. Sparsely vegetated opening in middle of corn field. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> 1. Setaria faberi FACU+ **HERB** Chenopodium album FAC-**HERB** Amaranthus retroflexus FACU+ **HERB** 8. Panicum capillare FAC **HFRB** 9. 3. --Hybiscus trionum UPL HERB __ 10. __ Ambrosia artemisiifolia **FACU HERB** 11. 5. Mollugo verticillata FAC **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not recorded **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Slide Review SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Soil core not collected* Yes X No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 12 Aр NA NA NΑ NA silty clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. No hydric indicators present in upper 12 inches. *Dominant upland vegetation and absence of wetland hydrology, so no soil core collected. Upper WETLAND DETERMINATION X No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/22/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Sarah Johnson Investigator #1: #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X Yes Community ID: No Upland Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W03SW-7 X Yes No Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Low-lying drainage area is surrounded by a tree plantation. Probable drain tile. NRCS slide review site **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Species Name Species Name Ind. Status <u>Stratum</u> Bromus inermis UPL **HERB** Vitis riparia FACW-VINE 10 Parthenocissus quinquefolia FAC-VINE 10 8. Lonicera tatarica **FACU** SHRUB 10 **SHRUB** Toxicodendron radicans FAC+ 9. Prunus serotina **FACU** TREE 3. 10 10 Solanum dulcamara FAC **HERB** 10 10. Pastinaca sativa UPL **HERB** 10 Rubus occidentalis UPL **SHRUB** 10 11. 5. Morus alba FAC TREE 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 44% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Agricultural drainage tile is functioning NRCS Slide Review and landscape position. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** No Yes Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 10 Ap 2/2 NA NA NA NA silty clay loam, moist, friable 10 10YR 7/4 NA NA NA NA gravel, moist, rigid 11 Αp 11 13 Α 10YR 3/2 10YR 5/6 common distinct silty clay loam, moist, friable gravelly 10YR 10YR В sandy clay, moist, friable 23 5/2 distinct 13 5/6 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Soil profile appears to be disturbed, possibly from past excavation. **WETLAND DETERMINATION** Hydric Soils Present? X No X No Hydrophytic Vegetation Present? Yes Yes Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. Farm tile is effective in draining area. Wetland hydrology present, hydric soils and hydrophytic vegetation absent.

Site: Inaugural South Suburban Airport

Locale: BWCW03

Date: September 11, 2008 1 hours
By: AECOM: S.Johnson; T. Schultz
File: 1:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised

Forms\W03\FQI\BWCW03.inv

FLORISTIC QUALITY DATA	Native	25	80.6%	Adventive	6	19.4%
25 NATIVE SPECIES	Tree	1	3.2%	Tree	2	6.5%
31 Total Species	Shrub	4	12.9%	Shrub	0	0.0%
2.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.2 W/Adventives	H-Vine	1	3.2%	H-Vine	0	0.0%
13.6 NATIVE FQI	P-Forb	8	25.8%	P-Forb	0	0.0%
12.2 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.2%
-2.7 NATIVE MEAN W	A-Forb	4	12.9%	A-Forb	2	6.5%
-2.0 W/Adventives	P-Grass	2	6.5%	P-Grass	1	3.2%
AVG: Fac. Wetland	A-Grass	2	6.5%	A-Grass	0	0.0%
	P-Sedge	2	6.5%	P-Sedge	0	0.0%
	A-Sedge	1	3.2%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

	Cryptogam 0	0.0%		
ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
AMARET	0 AMARANTHUS RETROFLEXUS	2 FACU+	Ad A-Forb	ROUGH AMARANTH
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CYPRIV	4 Cyperus rivularis	-4 FACW+	Nt A-Sedge	BROOK NUT SEDGE
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ECHLOB	5 Echinocystis lobata	-2 FACW-	Nt H-Vine	WILD CUCUMBER
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
EUPPER	4 Eupatorium perfoliatum	-4 FACW+	Nt P-Forb	COMMON BONESET
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
HIBTRI	0 HIBISCUS TRIONUM	5 UPL	Ad A-Forb	FLOWER-OF-AN-HOUR
LEEORY	4 Leersia oryzoides	-5 OBL	Nt P-Grass	RICE CUT GRASS
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PASSAT	0 PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLHYS	7 Polygonum hydropiperoides	-5 OBL	Nt P-Forb	MILD WATER PEPPER
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
PRUVIR	3 Prunus virginiana	3 [FACU]	Nt Shrub	CHOKE CHERRY
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW

SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIVAC	5 Scirpus validus creber	-5 OBL	Nt P-Sedge	GREAT BULRUSH
STATEH	5 Stachys tenuifolia hispida	-4 FACW+	Nt P-Forb	MARSH HEDGE NETTLE
THADAD	5 Thalictrum dasycarpum	-2 FACW-	Nt P-Forb	PURPLE MEADOW RUE
TRAOHI	2 Tradescantia ohiensis	2 FACU+	Nt P-Forb	COMMON SPIDERWORT

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 09/11/08 Project/Site: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Stream Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: BWC-W03 Yes Is The Area A Potential Problem Area? Plot ID: X Yes S1 No (If yes, define below.) Remarks: Plot is located on the banks of Black Walnut Creek. Spoil from dredge events are found on both banks VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Calystegia sepium FAC **HERB** 7. Amphicarpaea bracteata FAC **HERB** 5 **Bromus inermis** HDI HERB 45 8. Aster lateriflorus FACW-**HERB** 5 3. Helianthus grosseserratus FACW-HERB 9. --1 **SHRUB** 4. Salix exigua OBL 60 10. FACW-**SHRUB** 15 --5. Acer negundo 11. Pastinaca sativa UPL HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: X Stream, Lake, Or Tide Gauge None **Aerial Photos** Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: **NA** (in.) Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Typic Endoaquolls X No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics. Abundance/Contrast mucky modified 0 10YR 2/2 NA NΑ NA NA silty clay loam, moist, friable 10YR 6/1 few distinct gravel mixed in 12 A2 10YR 3/2 10YR 5/8 silt loam, moist, friable 5 common distinct 10YR 5/8 common distinct redox & gley layers stratified 12 23 В 10YR 2/1 Ν 3/1 common distinct clay, moist, friable 10YR distinct Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION X Yes Hydric Soils Present? X Yes Hydrophytic Vegetation Present? No No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? **X** Yes No **X** Yes No Remarks: This plot is located within a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/11/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: BWC-W03 Is The Area A Potential Problem Area? X Yes Plot ID: S2 Nο (If yes, define below.) Remarks: Plot is on the banks of Black Walnut Creek. Spoils from dredge events are located on both banks. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Zea mays UPL **HERB** 30 Abutilon theophrasti FACU-**HERB** Setaria faberi FACU+ **HERB** 15 8. Taraxacum officinale **FACU** HERB 5 Ambrosia trifida Gleditsia triacanthos **SHRUB** 3. FAC+ **HFRB** 10 9. FAC 5 Arctium minus UPL **HERB** 5 10. Daucus carota UPL **HERB** 5 11. 5. FACU Ambrosia artemisiifolia HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics gravelly 10YR 0 20 Ap 7.5YR 5/8 few distinct silt loam, moist, friable 10YR 5/8 few 20 23 10YR 3/1 10YR 7/3 few distinct silty clay loam, moist, friable Αp Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION X No Hvdric Soils Present? **X** No Hvdrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: The plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/11/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: BWC-W03 Yes Is The Area A Potential Problem Area? X Yes No Plot ID: S3 (If yes, define below.) Remarks: Agricultural drain tile from corn field into Black Walnut Creek. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bromus inermis UPL **HERB** Setaria faberi FACU+ **HERB** 20 8. Phalaris arundinacea FACW+ **HERB** 50 --3. 9. --Helianthus grosseserratus FACW-**HERB** 15 10. __ --5. Amaranthus retroflexus FACU+ **HERB** 5 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. Point at very edge of transition from wetland to upland **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands **NA** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Drainage tile is present. SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 15 3/1 10YR 4/6 few distinct silty clay loam, moist, friable 15 23 A2 10YR 2/1 NA NA NA NA clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot meets the soil and hydrology criteria, but not the vegetation criterion. Hydrophytic vegetation will likely become more established if the area is not disturbed.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Will Illinois Investigator #1: Sarah Johnson Tory Schultz State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Stream Is The Site Significantly Disturbed (Atypical Situation)? Station ID: BWC-W03 X Yes No Is The Area A Potential Problem Area? Yes X No Plot ID: **S4** (If yes, define below.) Remarks: Agricultural drain tile outlet from corn field into Black Walnut Creek. VEGETATION Dominant Species (50/20 Rule) Species Name Species Name Ind.Status Stratum % Cover Ind. Status Stratum % Cover Phalaris arundinacea FACW+ **HERB** 25 Taraxacum officinale FACU **HFRB** 5 Bromus inermis UPL HERB 40 8. Aster lateriflorus FACW-HERB 15 2. Tradescantia ohiensis FACII+ HFRR 5 3. 9 --4. Salix exigua OBL **SHRUB** 55 10. ----Acer negundo FACW-SHRUB 10 11. Stachys tenuifolia hispida FACW+ **HERB** 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 67% Remarks: Hydrophytic vegetation is dominant. HYDROLOGY **X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: X Stream, Lake, Or Tide Gauge **Aerial Photos** Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: X Water-Stained Leaves NA (in.) Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS poorly drained Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. mucky modified silty clay loam, moist, friable 0 10YR 8 Αp 3/2 NA NA NA NA 10YR 6/1 few distinct gravel mixed in 8 15 10YR 3/2 10YR 5/8 common distinct silty clay loam, moist, friable buried O horizon 15 17 0 N 2.5/1 10YR 5/8 distinct silty clay loam, moist, friable common 10Y 7/1 few distinct redox & gley layers stratified, gravelly 17 21 В 10YR 3/2 10YR 5/8 distinct silty clay loam, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X Yes X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/11/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? Yes X No Station ID: BWC-W03 Is The Area A Potential Problem Area? X Yes Plot ID: S5 Nο (If yes, define below.) Remarks: Plot associated with Black Walnut Creek. Spoil from dredge events are located on both banks. **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> % Cover Zea mays UPL **HERB** 15 Chenopodium album FAC-HERB 5 Setaria faberi FACU+ **HERB** 30 8. Taraxacum officinale **FACU HERB** 5 Bidens frondosa 3. **FACW HFRB** 3 9. Calystegia sepium FAC **HFRB** 5 Hibiscus trionum UPL **HERB** 2 10. Pastinaca sativa UPL **HERB** 5 11. 5. UPI HFRB Asclepias syriaca 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: X Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 7.5YR 0 12 Α 5/8 few distinct clay loam, moist, friable 12 18 A2 10YR 3/2 10YR 5/8 few distinct clay, moist, friable buried o horizon 21 0 Ν 2.5/1 18 NA NΑ NA clay, moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION X No Hvdric Soils Present? **X** No Hvdrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

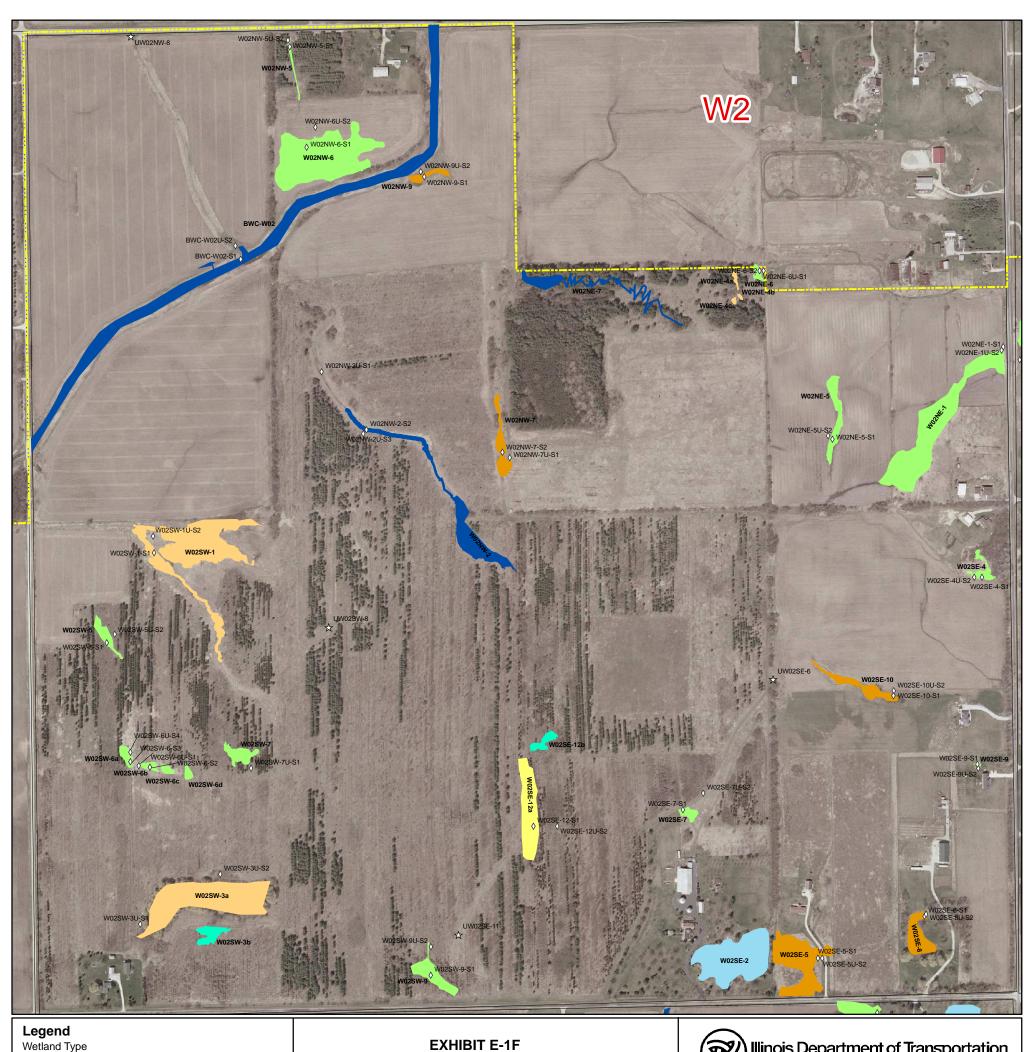
Appendix E Section Will 02

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
	<u> </u>			
W02NE-1-S1	21	Yes		
W02NE-1U-S2	21	No	11.4	
W02NE-4abc	NA	NA	9.0	
W02NE-5-S1	21	Yes		Photo S
W02NE-5U-S2	20	No	5.9	
W02NE-6-S2	NA	Na		no soil core
W02NE-6U-S1	20	Yes	7.8	
W02NE-7	NA	NA	6.9	
W02NW-2-S2	13	Yes		
W02NW-2U-S1	20	No	13.6	
W02NW-2U-S3	20	No		
W02NW-5-S1	9	Yes	4.9	
W02NW-5U-S2	18	No	4.9	
W02NW-6-S1	21	Yes	0.0	
W02NW-6U-S2	20	Yes	0.0	corn field
W02NW-7-S2	20	Yes	20.1	
W02NW-7U-S1	21	No	20.1	
UW02NW-8	NA	NA	NA	Photo SE
W02NW-9-S1	20	Yes	6.3	
W02NW-9U-S2	21	Yes	0.3	
W02SE-2	NA	NA	NA	No data form, excavated pond
W02SE-4-S1	20	Yes	4.1	
W02SE-4U-S2	21	Yes	4.1	
W02SE-5-S1	20	Yes	12.6	
W02SE-5U-S2	21	Yes		
UW02SE-6	NA	NA	NA	Photo N
W02SE-7-S1	20	Yes	6.0	
W02SE-7U-S2	20	Yes	0.0	
W02SE-8-S1	20	Yes	9.3	
W02SE-8U-S2	20	No	0.0	
W02SE-9-S1	21	Yes	6.0	
W02SE-9U-S2	21	No	0.0	
W02SE-10-S1	20	Yes	8.0	
W02SE-10U-S2	21	No		
UW02SE-11	NA	NA	NA	
W02SE-12-S1	21	Yes	9.0	
W02SE-12U-S2	20	Yes	0.0	
W02SW-1-S1	21	Yes	6.9	
W02SW-1U-S2	21	Yes	0.0	
W02SW-3-S2	20	Yes	7.2	
W02SW-3U-S1	20	No		

Appendix E Section Will 02

Area ID	Total Depth	Hydric Soil	Native FQI	Comments
W02SW-5-S1	7	Yes	C C	
W02SW-5U-S2	15	No	6.6	
W02SW-6U-S1	20	No		
W02SW-6-S2	22	Yes	0.0	
W02SW-6-S3	20	Yes	0.0	
W02SW-6U-S4	23	No		
W02SW-7-S2	NA	NA	8.0	No soil core
W02SW-7U-S1	20	Yes	0.0	
UW02SW-8	NA	NA	NA	
W02SW-9-S1	25	Yes	0.0	
W02SW-9U-S2	20	No	9.8	
BWC-W02-S1	24	Yes	12.8	Photo SW
BWC-W02U-S2	20	No	12.0	

NA = not applicable



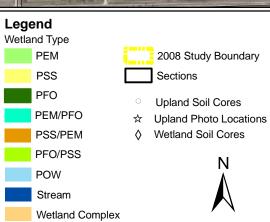
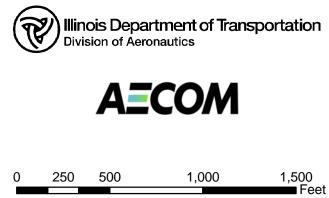


EXHIBIT E-1F
Will Township Section 2
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport



Site: Inaugural South Suburban Airport
Locale: W02NE1
Date: October 7, 2008 1 hours
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE1.inv

24 Ni 34 7 2.3 Ni 1.6 Ni 9.6 Ni -1.6 Ni -0.8 Ni	W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W W/Adventives	Tree Shrub W-Vine H-Vine P-Forb	0 3 1 1 2	2.9% 0.0% 0.0% 35.3% 0.0% 8.8% 2.9% 2.9% 5.9%	Tree Shrub W-Vin H-Vin P-For B-For A-For	e 0 e 0 b 2 b 1 b 2 ss 2	0.0% 0.0% 0.0% 5.9% 2.9% 5.9%
ACRONYM	C SCIENTIFIC NAME			M	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAS	ΓI		4	FACU-	Ad A-Forb	VELVETLEAF
ACERUB	7 Acer rubrum			0	FAC	Nt Tree	RED MAPLE
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMAHYB	0 Amaranthus hybridu	S		5	UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	O Ambrosia artemisii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	m		0	FAC	Nt P-Forb	INDIAN HEMP
ASCINC	4 Asclepias incarnat	a		-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
CIRARV	O CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CYPSTR	1 Cyperus strigosus			-3	FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	O Echinochloa crusga	11i		-3	FACW	Nt A-Grass	BARNYARD GRASS
EQUARV	O Equisetum arvense			0	FAC	Cryptogam	HORSETAIL
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNEFF	7 Juncus effusus			-5	OBL	Nt P-Forb	COMMON RUSH
PANVIR	5 Panicum virgatum			-1	FAC+	Nt P-Grass	SWITCH GRASS
PENSED	5 Penthorum sedoides			-5	OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0 PHALARIS ARUNDINAC	EA		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
POLPER	0 POLYGONUM PERSICAR	IA		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris	lanceolata		3	[FACU]	Nt P-Forb	SELF HEAL
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK

SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SETITA	O SETARIA ITALICA	3 FACU	Ad A-Grass	FOXTAIL MILLET
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/07/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? W02NE-1 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: Wide grassed drainageway **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 2. Equisetum arvense FAC **HERB** 20 8. 3. 9. 4. --10. --__ --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR 5YR silty clay loam, moist, friable 17 Α 2/1 common distinct 17 21 Bt 10YR 4/1 10YR 5/4 distinct silty clay, moist, firm many Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and X (F6) Redox Dark Surface (A11) Depleted Below Dark Surface wetland hydrology must be present. X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral X (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No **X** Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/07/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02NE-1 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Festuca pratensis FACU-**HERB Bromus inermis** UPL **HERB** 20 8. FACW+ 3. Phalaris arundinacea HERB 5 9. Helianthus grosseserratus FACW-**HERB** 3 10. --__ --Vitis riparia FACW-VINE 5. 11. 1 Ambrosia trifida FAC+ HERB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA silty clay loam, moist, friable Ap 3/1 13 10YR 3/1 10YR few silty clay loam, moist, friable A1 faint 10YR 4/4 distinct common 13 16 A2 10YR 3/1 2.5Y 5/1.5 common prominent silty clay loam, moist, friable 16 21 Bt 2.5Y 5/1 10YR 4/6 prominent silty clay, moist, firm many Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. Profile matches mapped hydric unit, but redox too deep for hydric indicators. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No X No Yes Yes Remarks: This plot is not located in a wetland.

Site: Inaugural South Suburban Airport

Locale: W02NE4

Date: May 1, 2009 1 hours

By: AECOM; T. Radke; R. West

File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02NE4.inv

FLORISTIC QUALI	TY DATA Native	6	75.0%	Adventi	7e 2	25.0%	
6 NATIVE SPE	CIES Tree	0	0.0%	Tree	0	0.0%	
8 Total Spe	cies Shrub	2	25.0%	Shrub	2	25.0%	
3.7 NATIVE MEA	N C W-Vine	0	0.0%	W-Vine	0	0.0%	
2.8 W/Adventi	ves H-Vine	0	0.0%	H-Vine	0	0.0%	
9.0 NATIVE FQI	P-Forb	2	25.0%	P-Forb	0	0.0%	
7.8 W/Adventi	ves B-Forb	0	0.0%	B-Forb	0	0.0%	
-2.2 NATIVE MEA	N W A-Forb	0	0.0%	A-Forb	0	0.0%	
-0.6 W/Adventi	ves P-Grass	2	25.0%	P-Grass	0	0.0%	
AVG: Fac. Wetla	nd (-) A-Grass	0	0.0%	A-Grass	0	0.0%	
	P-Sedge	0	0.0%	P-Sedge	0	0.0%	
	A-Sedge	0	0.0%	A-Sedge	0	0.0%	
	Cryptogam	0	0.0%				
ACRONYM C SCIEN	TIFIC NAME		W	WETNESS P	HYSIOGNOMY	COMMON NA	AME
CALCAN 3 Calam	agrostis canadensis		-5	OBL N	P-Grass	BLUE JOIN	IT GI
CORSTO 6 Cornu	s stolonifera		-3	FACW N	Shrub	RED-OSIER	R DO
ELWITE 4 Elemen			2	EACH M	D C	TITD CTNITA	DITT:

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Inaugural South Suburban Airport	City/County: V	Vill	Sampling Date:05/01/08
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02NE-4a, b and c
Investigator(s):	T. Radke and R. West	Section, Town	ship, Range	: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): toe of slope			Local relief (concave, convex, none: concave
Slope %: 1	Lat: 41.3	7968803	Long	g: -87.69466122 Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam/Ashkum silty clay loan	n		NWI Classification: not mapped; PEM seep
Are climatic / hydro	ologic conditions on the site typical for this tim	e of year?	Yes	XNo
Are Vegetation	Soil or hydrologyX_	Significantly disturbed?	1	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showing	ng sampling point lo	ocations, t	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres		No No		Is the Sampling Area Within a Wotland? Yes X No
Wetland Hydrolog	gy Present? Yes X	No		within a Wetland?
·	present in seepy area ase of hillside; area riddled with tile blowo	ut holes filled with oper	ı water	
	ken due to high water table; no vegetation tory recorded a dominance of wetland specie	•		
vegetation inven	ory recorded a dominance or welland specie	S.		
VEGETATION -	- Use scientific names of plants.			
Tue a Chueture	(Diet einer		Indicator	Dominance Test Worksheet:
Tree Stratum 1. Pinus str	(Plot size:) robus (planted)	% Cover Species? Planted	Status	Number of Dominant Species That Are OBL, FACW, or FAC 2 (A)
2				
3. <u></u> 4. 				Total Number of Dominant Species Across All Strata: 3 (B)
5				(
	Total Cover:			Percent of Dominant Species
Sapling/Shrub St				That Are OBL, FACW, or FAC: 67% (A/B)
1. Rubus ai 2. Rosa mu	llegheniensis		FACU FACU	Prevalence Index Worksheet:
	stolonifera		FACW	
4. Lonicera	tatarica	N	UPL	OBL species x 1 = 0
5. <u></u>				FACW species x 2 = 0
	Total Cover:			FAC species x 3 =0
Herb Stratum	(Plot size:)	N.	EA C)A/	FACU species x 4 =0
	gigantea virginicus	N	FACW FACW	UPL species x 5 = 0 Column Totals 0 (A) 0
3. <i>Calamag</i>	rostis canadensis	N	OBL	
_	hus grosseserratus	Y	FACW	Prevalence Index = B/A = #DIV/0!
6				Hydrophytic Vegetation Indicators:
7. 				Dominance Test is >50%
8. <u></u> 9. 				Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting
10				data in remarks or on a separate sheet)
	Total Cover:			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)			*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2				Hisdranbutia
Z. <u></u>	Total Cover:			Hydrophytic Vegetation Yes X No
	Total Cover.			Present?
	de photo numbers here or on a separate shee			
	getation is dominant throughout area.			ause vegetation plot not selected. Vegetation inventory had dominance of hydrophtic species.
Alea is a mosaic	or apiana/wetiana sinabs, wetiana nerbaciou	is species and planted W	ine piries.	vegetation inventory had dominance of hydrophilic species.

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02NE4a, b, c

Profile Description:	(Describe to the d	epth neede	d to document	the indicator	or conf	irm the	absence of indicators.)		
Depth	Matrix		F	Redox Features	s				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
							· -		
								-	
				· ——					
								-	
*Type: C=Concentrat	ion D-Donlotion PM	-Poducod M	latrix CS-Covered	d or Coatod Sa	and Crain	·c **I	Location: PL=Pore Lining, M=Ma	triv	
Hydric Soil Indicate		-Reduced M	iddix, CS=Covere	u or coated se	and Gran	13. L	Indicators for Problematic I		
Tryuric 3011 Indicate	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						indicators for Problematic i	Tyuric Solis ** .	
Histosol (A1)		_		d Matrix (S4)			Coast Prairie Redox (A16)		
Histic Epipedon ((A2)	-	Sandy Redox				Iron-Manganese Masses (I		
Black Histic (A3) Hydrogen Sulfide	(14)	-	Stripped Mat	rıx (S6) y Mineral (F1)			Other (Explain in Remarks)	
Stratified Layers		-		ed Matrix (F2)					
2 cm Muck (A10)		-	Depleted Ma						
	Dark Surface (A11)	=	Redox Dark						
Thick Dark Surfa		-		rk Surface (F7)	**	*Indicators of hydrophytic vegeta		
Sandy Mucky Mir 5 cm Mucky Peat	` '	-	Redox Depre	essions (F8)			wetland hydrology must be pre unless disturbed or problema		
Restrictive Layer (if							umess distanced or problema		
reserver Edyer (i	· observeu):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes <u>*</u>	No
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is requ	ired; check a	II that apply)				Secondary Indicators (minimum	of two required)	
Surface Water (A	(1)	_	Water-Staine	ed Leaves (B9))		Surface Soil Cracks (B6)		
X High Water Table	e (A2)	=	Aquatic Faur				Drainage Patterns (B10		
X Saturation (A3)	`	-		Plants (B14)			Dry-Season Water Table (C2)	
Water Marks (B1 Sediment Deposi		-		ılfide Odor (C1 zospheres on I		ots (C3)	Crayfish Burrows (C8) Saturation Visible on Aeria	l Imagery (C9)	
Drift Deposits (B		-		Reduced Iron		015 (05)	X Geomorphic Position (D2)	. Imager, (65)	
Algal Mat or Crus		=		Reduction in T	illed Soil	s (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B		_	Thin Muck S						
	e on Aerial Imagery (I ed Concave Surface (I		Gauge or We	in in Remarks))				
Field Observations:	•	_	Otrici (Explu	III III Kemana,	,				
Surface Water Present			No. Y	Denth (inche	oc).				
			No X	-	_	<6			
Water Table Present?	Yes		No		-		Walland Dadada an Barana	M V V	NI -
Saturation Present? (includes capillary frin	Yes	<u> </u>	No	Depth (inche	es): _	<1	Wetland Hydrology Present	t? Yes X	No
Describe Recorded Da		nitoring well,	, aerial photos, pr	evious inspect	ions), if	available	1		
Remarks:									
	rface. No core take		gh water table.						
THE DIOWOUL HOIE!	s had open water at <	o maies.		=					

US Army Corps of Engineers

Midwest Region - Interim Version

Site: Inaugural South Suburban Airport

Locale: W02NE5
Date: October 7, 2008 30 minutes
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE5.inv

14 NA 23 1 1.6 NA 1.0 V 5.9 NA 4.6 V -1.0 NA -0.3 V	FIC QUALITY DATA ATIVE SPECIES Fotal Species ATIVE MEAN C M/Adventives ATIVE FQI M/Adventives ATIVE MEAN W M/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	14 0 0 0 0 4 0 6 1 1 2 0	0.0% 0.0% 0.0% 17.4% 0.0% 26.1% 4.3% 4.3% 8.7% 0.0%	Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra P-Sed	0 e 0 0 b 0 b 0 b 0 3 ss 3 ss 3	39.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.08 13.0% 13.0% 13.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAS	ΓΙ		4	FACU-	Ad A-Forb	VELVETLEAF
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMAHYB	O Amaranthus hybridu	S		5	UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	O Ambrosia artemisii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	O CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CYPESC	O Cyperus esculentus			-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
CYPSTR	1 Cyperus strigosus			-3	FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusga	11i		-3	FACW	Nt A-Grass	BARNYARD GRASS
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANVIR	5 Panicum virgatum			-1	FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	O PHALARIS ARUNDINAC	EA		- 4	FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA			2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLHYR	2 Polygonum hydropip	er		-3	FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICAR	IA		1	[FAC-]	Ad A-Forb	LADY'S THUMB
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SETITA	O SETARIA ITALICA			3	FACU	Ad A-Grass	FOXTAIL MILLET
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGIG	4 Solidago gigantea			-3	FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 10/07/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? W02NE-5 X Yes No Station ID: Is The Area A Potential Problem Area? Plot ID: Nο S1 Yes (If yes, define below.) Remarks: Low area in middle of corn field; appears to be a tiled drainageway **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Species Name Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Cyperus esculentus **FACW HERB** Echinochloa crusgalli **FACW HERB** 15 8. 2. 3. Setaria faberi FACU+ **HERB** 15 9. 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR 5YR silty clay loam, moist, friable 9 Α 3/1 common distinct 9 15 Bt1 10YR 3.5/1 10YR 4.5/4 distinct silty clay, moist, firm many 15 21 Bt2 10YR 4/1 10YR 4/4 many distinct silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and X (F6) Redox Dark Surface (A11) Depleted Below Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. Area is a tiled drainageway

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/07/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? Yes X No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02NE-5 Yes X No Station ID: Is The Area A Potential Problem Area? **X** No Plot ID: S2 Yes (If yes, define below.) Remarks: Successful corn crop VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status **Stratum** % Cover Species Name Ind. Status <u>Stratum</u> % Cover UPL **HERB** Zea mays 100 2. 8. --3. --9. 4. ------10. --__ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** No Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR silty clay loam, moist, friable 10 Ap 3/1 NA NA NA 10 13 10YR 3/1 5YR distinct silty clay loam, moist, friable Α 3/3 common 13 18 Bt1 10YR 4/2 10YR 4/6 common distinct silty clay, moist, firm 18 20 Bt2 10YR 3/1 10YR 4/6 common prominent silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. The profile does not quite meet the depth, value or redox criteria to qualify. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No X No Yes Yes Remarks: This plot is not located in a wetland.

Inaugural South Suburban Airport Site:

O PHALARIS ARUNDINACEA

4 Rorippa palustris fernaldiana

PHAARU

RORPAF

Date: M02NE6
Date: May 1, 2009 30 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NE6.inv

FLORISTIC QUALIT	Y DATA Na	ative	6	85.7%	Ac	dventive	9 1	14.3%
6 NATIVE SPEC	CIES Tr	ee	0	0.0%	Ti	ree	0	0.0%
7 Total Spec	cies Sh	ırub	0	0.0%	Sl	nrub	0	0.0%
3.2 NATIVE MEAN	1 C W-	-Vine	0	0.0%	W-	-Vine	0	0.0%
2.7 W/Adventiv	res H-	-Vine	0	0.0%	Н-	-Vine	0	0.0%
7.8 NATIVE FQI	P-	-Forb	4	57.1%	P-	-Forb	0	0.0%
7.2 W/Adventiv	res B-		0	0.0%	B-	-Forb	0	0.0%
-1.8 NATIVE MEAN	1 W A-	-Forb	2	28.6%	A-	-Forb	0	0.0%
-2.1 W/Adventiv	res P-	-Grass	0	0.0%	P-	-Grass	1	14.3%
AVG: Fac. Wetlar	nd (-) A-	-Grass	0	0.0%	A-	-Grass	0	0.0%
	P-	-Sedge	0	0.0%	P-	-Sedge	0	0.0%
	A-	-Sedge	0	0.0%	A-	-Sedge	0	0.0%
	Cr	yptogam	0	0.0%				
ACRONYM C SCIENT	CIFIC NAME			7	WETNI	ESS PH	/SIOGNOMY	COMMON NAME
ALLCER 7 Allium	n cernuum			;	[FAC-	-] Nt	P-Forb	NODDING WILD ONION
EPICOL 3 Epilok	oium coloratum			-!	OBL	Nt	P-Forb	CINNAMON WILLOW HERB
GALAPA 1 Galium	n aparine			;	FACU	Nt	A-Forb	ANNUAL BEDSTRAW
GEULAT 2 Geum 1	aciniatum tricho	carpum		-:	FACW	Nt	P-Forb	ROUGH AVENS
HELGRO 2 Heliar	thus grosseserra	itus		-1	PACW-	- Nt	P-Forb	SAWTOOTH SUNFLOWER

-4 FACW+ Ad P-Grass REED CANARY GRASS

Nt A-Forb MARSH CRESS

-5 OBL

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Inaugural South Suburban Airport	City/County: Will County		Sampling Date: <u>5/1/2009</u>		
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02NE-6 SC-2		
Investigator(s):	T. Radke; Robyn West	Section, Township, Range		: Section 2; T33N; R13E		
Landform (hillside,	terrace, etc.): toe of slope			Local relief (concave, convex, none: concave		
Slope %: 0	Lat:	41.379632	Long	: -87.694785 Datum: NAD83 Illinois East		
Soil Unit Name:	Ashkum silty clay loam			NWI Classification: Not mapped; PEM		
Are climatic / hydro	ologic conditions on the site typical for this ti	me of year?	Yes	X No		
Are Vegetation	Soil or hydrology X	Significantly disturbed?	,	Are "Normal Circumstances" present? Yes X No		
Are Vegetation	Soil or hydrology	Naturally problematic?	((if needed, explain any answers in Remarks.)		
SUMMARY OF	FINDINGS - Attach site map show	ring sampling point	locations	s, transects, important features, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	sent? Yes *	No No		Is the Sampling Area Yes X No		
	pase of hill with high water table; tile pres high to extract soil core	ent with several blowo	uts.			
VEGETATION	- Use scientific names of plants.					
Tree Stratum 1 2 3	(Plot size:)	Absolute Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC Total Number of Dominant		
4 5				Species Across All Strata: (B)		
Sapling/Shrub St	Total Cover:			Percent of Dominant Species That Are OBL, FACW, or FAC:		
2 3 4 5	Total Cover:			Prevalence Index Worksheet: Total % Cover of Multiply by: OBL species x 1 = 0 FACW species x 2 = 0 FAC species x 3 = 0		
2. Phalaris 3. Geum la	m coloratum	50 Y 50 Y 25 10 25	FACW FACW FACW OBL OBL	FACU species $x 4 = 0$ UPL species $x 5 = 0$ Column Totals $x 5 = 0$ Prevalence Index = B/A = #DIV/0!		
6	Total Cover:	160		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)		
Woody Vine Stra				*Indicators of hydric soil and wetland hydrology must be present.		
1. <u></u> 2. <u></u>	Total Cover:			Hydrophytic Vegetation Yes X No Present?		
Remarks: (Includ	de photo numbers here or on a separate she	et.)				

US Army Corps of Engineers Midwest Region - Interim Version

SOIL Sampling Point: W02NE-6 SC-2

epth	Matrix			ledox Features	S				
nches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
			-	·					
				· -					
_									
				· -			-		
				· -					
Type: C=Concentra	tion D-Donlotion P	M-Poduco	d Matrix, CS=Covered	d or Coated Sa	and Grain		ocation: PL=Pore Lining, N	4-Matrix	
**		M-Reduced	i Matrix, C3=Covered	d or Coated Sa	and Gran	15. · · L			
ydric Soil Indicate	ors:						Indicators for Problem	atic Hydric Soils***:	
Histosol (A1)			Sandy Gleyed	d Matriy (S4)			Coast Prairie Redox ((A16)	
Histic Epipedon ((A2)		Sandy Redox				Iron-Manganese Mas		
Black Histic (A3)			Stripped Mat				X Other (Explain in Re		
Hydrogen Sulfide				y Mineral (F1)				,	
Stratified Layers				d Matrix (F2)					
2 cm Muck (A10))		Depleted Mat	trix (F3)					
	Dark Surface (A11)		Redox Dark S						
Thick Dark Surfa	• •			rk Surface (F7))	***	Indicators of hydrophytic v	_	
Sandy Mucky Mi			Redox Depre	essions (F8)			wetland hydrology must b		
5 cm Mucky Pea							unless disturbed or prob	Diematic.	
lestrictive Layer (i	f observed):								
T									
			_				Hydric Soils Present?	Yes *	No
Type:									140
Depth (inches): emarks: Water table too			e hole inundated. Nand wetland hydrolog		ricAsh	kum silt		163	
Depth (inches): emarks: Water table too Wetland vegetati					ricAsh	kum silt		163	
Depth (inches): emarks: Water table too Wetland vegetati	on dominated by FAC				ricAsh	kum silt		163	
Depth (inches): emarks: Water table too Wetland vegetation IYDROLOGY Vetland Hydrology	on dominated by FAC	CW species	and wetland hydrolo		ricAsh	kum silt			
Depth (inches): emarks: Water table too Wetland vegetati HYDROLOGY Vetland Hydrology rimary Indicators (m	on dominated by FAC TIndicators: inimum of one is req	CW species	and wetland hydrolog	gy is present.		kum silt	y clay loam Secondary Indicators (min	nimum of two required)	
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Depth (inches): emarks: Water table too Wetland vegetati HYDROLOGY Vetland Hydrology rimary Indicators (m X Surface Water (A X High Water Tabl X Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Cru: Iron Deposits (B Inundation Visib Sparsely Vegetat ield Observations: urface Water Present Vater Table Present? aturation Present?	r Indicators: inimum of one is requally e (A2) its (B2) 3) st (B4) 5) le on Aerial Imagery ted Concave Surface : t? Yes _ Yes _ uge)	(B7) (B8) X X	k all that apply Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	ed Leaves (B9) a (B13) Plants (B14) Iffide Odor (C1 zospheres on I Reduced Iron Reduction in T urface (C7) Ill Data (D9) in in Remarks) Depth (inche Depth (inche) Living Ro (C4) illed Soil) es): es): es): es):	oots (C3) ds (C6) <1 <1 0	Secondary Indicators (mir Surface Soil Cracks (Drainage Patterns (B Dry-Season Water T: Crayfish Burrows (CE Saturation Visible on Geomorphic Position FAC-Neutral Test (D)	nimum of two required) B6) 10 able (C2) 3) Aerial Imagery (C9) (D2)	
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Depth (inches): emarks: Water table too Wetland vegetati HYDROLOGY Vetland Hydrology rimary Indicators (m X Surface Water (A X High Water Table X Sediment Depos Drift Deposits (B Algal Mat or Cru: Iron Deposits (B Inundation Visib Sparsely Vegetat ield Observations: urface Water Present Vater Table Present? aturation Present? aturation Present? includes capillary frintescribe Recorded Date emarks:	r Indicators: inimum of one is requally e (A2) its (B2) 3) st (B4) 5) le on Aerial Imagery ted Concave Surface : t? Yes _ Yes _ uge)	(B7) (B8) X X x annitoring w	k all that apply Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	ed Leaves (B9) a (B13) Plants (B14) Iffide Odor (C1 zospheres on I Reduced Iron Reduction in T urface (C7) Ill Data (D9) in in Remarks) Depth (inche Depth (inche) Living Ro (C4) illed Soil) es): es): es): es):	oots (C3) ds (C6) <1 <1 0	Secondary Indicators (mir Surface Soil Cracks (Drainage Patterns (B Dry-Season Water T: Crayfish Burrows (CE Saturation Visible on Geomorphic Position FAC-Neutral Test (D)	nimum of two required) B6) 10 able (C2) 3) Aerial Imagery (C9) (D2)	
Depth (inches): emarks: Water table too Wetland vegetati HYDROLOGY Vetland Hydrology rimary Indicators (m X Surface Water (A X High Water Table X Sediment Depos Drift Deposits (B Algal Mat or Cru: Iron Deposits (B Inundation Visib Sparsely Vegetat ield Observations: urface Water Present Vater Table Present? aturation Present? aturation Present? includes capillary frintescribe Recorded Date emarks:	r Indicators: inimum of one is requal) e (A2) its (B2) 3) st (B4) 5) le on Aerial Imagery ted Concave Surface t? Yes Yes Yes Jege) ata (stream gauge, manual)	(B7) (B8) X X x annitoring w	k all that apply Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck Su Gauge or We Other (Explai	ed Leaves (B9) a (B13) Plants (B14) Iffide Odor (C1 zospheres on I Reduced Iron Reduction in T urface (C7) Ill Data (D9) in in Remarks) Depth (inche Depth (inche) Living Ro (C4) illed Soil) es): es): es): es):	oots (C3) ds (C6) <1 <1 0	Secondary Indicators (mir Surface Soil Cracks (Drainage Patterns (B Dry-Season Water T: Crayfish Burrows (CE Saturation Visible on Geomorphic Position FAC-Neutral Test (D)	nimum of two required) B6) 10 able (C2) 3) Aerial Imagery (C9) (D2)	

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Midwest Region - Interim Version

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Inaugural South Suburban Airport	City/County: 1	Will County	Sampling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02NE-6 SC-1
Investigator(s):	T. Radke; Robyn West	Section, Town	nship, Range:	Section 4; T33N; R13E
Landform (hillside,	terrace, etc.): toe of slope			Local relief (concave, convex, none: concave
Slope %: 1	Lat: 41.:	379632	Long:	-87.69478469 Datum: NAD83 Illinois East
Soil Unit Name:	Ashkum silty clay loam			NWI Classification:
Are climatic / hydro	ologic conditions on the site typical for this tim	e of year?	Yes	X No
Are Vegetation	Soil X or hydrology X	Significantly disturbed?	Α	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	(i	if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showi	ng sampling point l	ocations, t	ransects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X*	No X No X No X		Is the Sampling Area Yes No X
	izon from pond excavation on adjacent pr	operty; mucky layer at '	12"	
		Absolute Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum 1	(Plot size:)	% Cover Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC
2 3 4 5				Total Number of Dominant Species Across All Strata: 1 (B)
Sapling/Shrub St	Total Cover:			Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)
2 3 4 5 6 7 8 9 10 Woody Vine Strat	Total Cover:	100 Y	UPL	Prevalence Index Worksheet: Total % Cover of
Remarks: (Includ	de photo numbers here or on a separate she	et.)		

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Midwest Region - Interim Version

SOIL Sampling Point: W02NE-6 SC-1

Profile Description	: (Describe to the	depth neede	ed to document	the indicate	or or con	firm the	absence of indicators.)		
Depth	Matrix		F	Redox Featur	es				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-12	10YR 4/2	100					Sicl		
	10YR 2/1			-			Ciel	buried muck layer	
12-20	101K Z/1	100		-	. ———		Sicl	buried muck layer	
				-					
*Type: C=Concentra	tion, D=Depletion, R	M=Reduced M	latrix, CS=Covere	d or Coated	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=M	atrix	
Hydric Soil Indicate	ors:		<u> </u>				Indicators for Problematic		
,								,	
Histosol (A1)		_	Sandy Gleye	d Matrix (S4)		Coast Prairie Redox (A16	5)	
Histic Epipedon		_	Sandy Redox				Iron-Manganese Masses		
Black Histic (A3)		-	Stripped Ma				X Other (Explain in Remark	(S)	
Hydrogen Sulfid		-	X Loamy Muck						
Stratified Layers		-	Loamy Gleye		.)				
2 cm Muck (A10	Dark Surface (A11)	-	Depleted Ma Redox Dark	` '					
Thick Dark Surfa		-	Depleted Da		7)	**	*Indicators of hydrophytic veget	tation and	
Sandy Mucky Mi		-	Redox Depre		,,		wetland hydrology must be pr		
5 cm Mucky Pea	` '	-					unless disturbed or problem		
Restrictive Layer (if observed):								
, ,	•								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X	No
HYDROLOGY Wetland Hydrology	v Indicators:								
Primary Indicators (m		uired: check a	all that apply'				Secondary Indicators (minimu	m of two required)	
Timary Indicators (II	illillillidill of one is req	unca, cricci a	ш шас арргу,				Secondary Indicators (minima	in or two required)	
Surface Water (A1)	_	Water-Staine	ed Leaves (B	9)		Surface Soil Cracks (B6)		
High Water Tab	le (A2)	<u>-</u>	Aquatic Faur				Drainage Patterns (B10		
Saturation (A3)		-	True Aquation				Dry-Season Water Table	(C2)	
Water Marks (B:		-	Hydrogen St			t- (C2)	Crayfish Burrows (C8)	:-! I (CO)	
Sediment Depos Drift Deposits (E	` '	-	Oxidized Rhi Presence of	•		00ts (C3)	Saturation Visible on Aeri Geomorphic Position (D2	3 , \ ,	
Algal Mat or Cru		-	Recent Iron		` '	ils (C6)	FAC-Neutral Test (D5)	.)	
Iron Deposits (B		-	Thin Muck S		Tilled 50	113 (CO)	TAC Neutral Test (D3)		
	ole on Aerial Imagery	(B7)	Gauge or W						
	ted Concave Surface		Other (Expla		s)				
Field Observations	:								
Surface Water Preser	nt? Yes		No X	Depth (inc	hes):				
Water Table Present?	_			Depth (inc					
Saturation Present?				Depth (inc	-		Wetland Hydrology Preser	nt? Voc	No V
(includes capillary frir			NO A	_ Deptil (IIIC	nes).		wedand nydrology Presei	nt? Yes	No X
Describe Recorded Da		nonitorina well	, aerial photos, pr	evious inspe	ctions), if	available			
	3		, , , ,		,,,				
Remarks:									
Remarks:									
Remarks:									
Remarks:									

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Midwest Region - Interim Version

Site: Inauagural South Suburban Airport

Site: Inauagural South Suburban Airport
Locale: W02NE7
Date: May 1, 2008 1 hours
By: AECOM; T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02NE7.inv
Notes: Seep-fed stream at base of hill

FLORISTIC QUALITY DATA	Native	6	60.0%	Adventive	4	40.0%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	1	10.0%
10 Total Species	Shrub	1	10.0%	Shrub	2	20.0%
2.8 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.9 NATIVE FQI	P-Forb	3	30.0%	P-Forb	0	0.0%
5.4 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.5 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
-0.5 W/Adventives	P-Grass	2	20.0%	P-Grass	1	10.0%
AVG: Faculative (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%	, and the second		

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LEEVIR	7 Leersia virginica	-3 FACW	Nt P-Grass	WHITE GRASS
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE

WETLAND DETERMINATION DATA FORM - Midwest Region

Project/Site:	Inaugural South Suburban Airport City/County: Will		Sampling Date: 1-May-09				
Applicant/Owner:	Illinois Department of Transportation		State: Illinois Sampling Point: W02NE-7				
Investigator(s):	T. Radke; Robyn West	Section, Township, Range	e: Section 2; T33N; R13E				
Landform (hillside,	terrace, etc.): Toe of slope		Local relief (concave, convex, none: concave				
Slope %: 1	Lat:	41.37985449 Long	g: -87.69771407 Datum: NAD83 Illinois East				
Soil Unit Name:	Drummer silty clay loam/Ozaukee silt	loam	NWI Classification: PFO/Stream				
Are climatic / hydro	ologic conditions on the site typical for this tim	ie of year? Yes	XNo				
Are Vegetation	Soil or hydrology X	Significantly disturbed?	Are "Normal Circumstances" present? Yes X No				
Are Vegetation	Soil or hydrology	Naturally problematic?	(if needed, explain any answers in Remarks.)				
SUMMARY OF	FINDINGS - Attach site map showing	ng sampling point locations,	transects, important features, etc.				
Hydrophytic Vege Hydric Soils Pres		No	Is the Sampling Area Yes X No				
Wetland Hydrolog		No	within a Wetland?				
	_ water-and field tile fed stream meander		se of slope.				
*No soil	core taken due to inundation and high water	table;					
VECETATION	lles esientific names of plants						
VEGETATION	- Use scientific names of plants.	Absolute Dominant Indicator	Dominance Test Worksheet:				
Tree Stratum 1	(Plot size:)	% Cover Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC 5 (A)				
2							
3. <u></u> 4. <u></u>			Total Number of Dominant Species Across All Strata: 6 (B)				
5. <u></u>	Total Cover:		- Percent of Dominant Species				
Sapling/Shrub St	tratum (Plot size:)		That Are OBL, FACW, or FAC: 83% (A/B)				
1. Cornus 2. Morus a	racemosa alba	Y FACW Y FAC	Prevalence Index Worksheet:				
3. <u>Lonicer</u> 4	ra tatarica	Y UPL	Total % Cover of Multiply by: OBL species				
5			FACW species x 2 = 0				
Herb Stratum	Total Cover:		FAC species				
1. Elymus	(Plot size:) s virginicus	Y FACW	UPL species x 5 = 0				
	canadense num virginianum	Y FAC Y FAC	(A)(B)				
4.			Prevalence Index = B/A = #DIV/0!				
6			Hydrophytic Vegetation Indicators:				
7. <u></u> 8.			Dominance Test is >50% Prevalence Index is *3.0*				
9.	Total Cover:		Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)				
Woody Vine Stra	atum (Plot size:)						
1. <u></u> 2			Problematic Hydrophytic Vegetation (Explain)				
1.	Total Cover:		*Indicators of hydric soil and wetland hydrology must be present.				
2.	rotal covol.		Hydrophytic				
			Vegetation Yes X No				
Remarks: (Includ	de photo numbers here or on a separate shee	et.)	1				
	ion percentages not quantified; species lis		ea				

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Midwest Region - Interim Version

SOIL Sampling Point: **W02NE-7** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (Inches) Loc** Texture *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present?** Yes * No Hydric soils mapped in part. *No soil core taken--stream inundated. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) X Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) X Drainage Patterns (B10 X Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Saturation Visible on Aerial Imagery (C9) Oxidized Rhizospheres on Living Roots (C3) X Geomorphic Position (D2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) **Field Observations:** Surface Water Present? 2-4 Yes X No Depth (inches): Water Table Present? Surface Saturation Present? Depth (inches): Surface Wetland Hydrology Present? No Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available

US Army Corps of Engineers Midwest Region - Interim Version

Remarks:

Wetland hydrology is present.

Stream is fed by field tile outlets from upland fields to the south and from hillside seepage

Inaugural South Suburban Airport Site:

Locale: W02NW2
Date: April 24, 2009 15 minutes
By: AECOM; T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW2.inv

14 NA 21 T 3.6 NA 2.4 W 13.6 NA 11.1 W -3.4 NA -1.5 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	0		Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed	1	9.5% 0.0% 14.3%
ACRONYM	C SCIENTIFIC NAME				W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-	-3 FACW	Ad P-Grass	REDTOP
ANDGER	5 Andropogon gerardii				1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASCINC	4 Asclepias incarnata			-	-5 OBL	Nt P-Forb	SWAMP MILKWEED
BROINE	O BROMUS INERMIS				5 UPL	Ad P-Grass	HUNGARIAN BROME
CALCAN	3 Calamagrostis canad	ensis		-	-5 OBL	Nt P-Grass	BLUE JOINT GRASS
CXCRIS	4 Carex cristatella			-	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXLACU	6 Carex lacustris			-	-5 OBL	Nt P-Sedge	COMMON LAKE SEDGE
CXSTRI	5 Carex stricta			-	-5 OBL	Nt P-Sedge	COMMON TUSSOCK SEDGE
DAUCAR	0 DAUCUS CAROTA				5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	li		-	-3 FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grossese	rratus		-	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5 Iris virginica shre	vei		-	-5 OBL	Nt P-Forb	BLUE FLAG
LONTAT	0 LONICERA TATARICA				5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MELALB	0 MELILOTUS ALBA				3 FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	0 PHALARIS ARUNDINACE	A		-	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POTSIS	4 Potentilla simplex				4 FACU-	Nt P-Forb	COMMON CINQUEFOIL
RORPAF	4 Rorippa palustris f	ernaldiana		-	-5 OBL	Nt A-Forb	MARSH CRESS
SCIFLU	4 Scirpus fluviatilis			-	-5 OBL	Nt P-Sedge	RIVER BULRUSH
SPAPEC	4 Spartina pectinata			-	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
TRIPRA	O TRIFOLIUM PRATENSE				5 UPL	Ad P-Forb	RED CLOVER
TYPLAT	1 Typha latifolia			-	-5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	Sampling Date: 24-Apr-09
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sampling Point: W02NW-2 SC-2
Investigator(s):	T. Radke; Robyn W	est	;	Section, Tow	nship, Range	Section 2; T33N; R13E
Landform (hillside,	terrace, etc.):	Drainageway				Local relief (concave, convex, none: convex
Slope %: 1		Lat:	41.37	65814	Long	-87.70035075 Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam	and Ashkum silty cla	y loam			NWI Classification: PEM; Stream
Are climatic / hydro	ologic conditions on th	e site typical for this ti	me of year?		Yes	XNo
Are Vegetation	Soil X	or hydrology X	Significant	ly disturbed?	A	are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?	(f needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attac	ch site map show	ing sampl	ing point l	locations, t	ransects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent?	Yes X Yes X Yes X	-			Is the Sampling Area Yes X No
		annel. Surrounding annel dredging excava		y eroded.		
VEGETATION -	· Use scientific na	ames of plants.				
Tree Stratum 1. Prunus s 2 3 4 5	(Plot size:serotina)	% Cover	Dominant Species? Y	Indicator Status FACU	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC Total Number of Dominant Species Across All Strata: 4 (B)
Sapling/Shrub Str	ratum (Plot size:	Total Cover	5			Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
2. Helianth 3. Andropo 4 5	(Plot size: arundinacea us grosseserratus gon gerardii	Total Cover	35 25 50		FACW FACW FAC	Prevalence Index Worksheet:
6 7 8 9 10	(Distains)	Total Cover	115			Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
1 2 Remarks: (Include		Total Covers				*Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes X No
(moluc	p.13.3 Hambold Hel	_ J. S., & Soparate Sin				

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SOIL Sampling Point: W02NW-2 SC-2

Depth								
	Matrix		Re	edox Features	S			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-7	10 YR 4/3	100					silty clay loam	
7-10	10 YR 3/2	100					silty clay loam	
10-13								No receivery due to high watertable
10-13	no recovery							No recovery due to high watertable
		,			,			
*Tunou C—Concontratio	on D-Donlotion D	M_Doducod N	Astriy CC-Covered	or Costad Ca	and Crair	**!	ocation: PL=Pore Lining, M=M	atriv
*Type: C=Concentration		M=Reduced I	riatrix, CS=Covered	or Coated Sc	and Gran	15. ····L		
Hydric Soil Indicator	rs:						Indicators for Problematic	Hydric Soils***:
Histosol (A1)			Sandy Gleyed	Matrix (S4)			Coast Prairie Redox (A16)
Histic Epipedon (A	N2)		Sandy Redox				Iron-Manganese Masses	
Black Histic (A3)			Stripped Matr	ix (S6)			X Other (Explain in Remark	(s)
Hydrogen Sulfide	(A4)		Loamy Mucky	Mineral (F1))			
Stratified Layers (A5)		Loamy Gleyed					
2 cm Muck (A10)			Depleted Mat					
Depleted Below Da			Redox Dark S			aka ka	Tudiostava of hydrouby tie vege	tation and
Thick Dark Surface Sandy Mucky Mine	` '		Depleted Darl Redox Depres)	-11	Indicators of hydrophytic vegewetland hydrology must be pr	
5 cm Mucky Peat of	` '		Redux Depres	SIUIS (FO)			unless disturbed or problem	
Restrictive Layer (if							amess distance of problem	
testrictive Layer (ii	obscived).							
Type:								
Depth (inches):							Hydric Soils Present?	Yes X No
HYDROLOGY								
Wetland Hydrology 1	Indicators:							
Wetland Hydrology I Primary Indicators (min		uired; check	all that apply)				Secondary Indicators (minimu	m of two required)
Primary Indicators (min	nimum of one is req	uired; check					,	m of two required)
Primary Indicators (min Surface Water (A1	nimum of one is req	uired; check	Water-Stained)		Surface Soil Cracks (B6)	m of two required)
Primary Indicators (min Surface Water (A1 High Water Table	nimum of one is req	uired; check	Water-Stained	a (B13))		Surface Soil Cracks (B6) Drainage Patterns (B10	
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3)	nimum of one is req	uired; check	Water-Stained Aquatic Fauna True Aquatic	a (B13) Plants (B14)			Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table	
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	nimum of one is req L) (A2)	uired; check	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14) fide Odor (C1	1)	nots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8)	(C2)
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits	nimum of one is req (1) (A2) (B2)	uired; check	Water-Stained Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) fide Odor (C1 ospheres on	1) Living Ro	oots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer	(C2) ial Imagery (C9)
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	nimum of one is req (A2) (B2)	uired; check	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul	e (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron	1) Living Ro (C4)	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8)	(C2) ial Imagery (C9)
Primary Indicators (min Surface Water (A1 X High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	nimum of one is req L) (A2) s (B2))	uired; check	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R	e (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron leduction in T	1) Living Ro (C4)	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	nimum of one is req (A2) (B2) (B4) (B4) (On Aerial Imagery	(87)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel	a (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron teduction in T rface (C7) I Data (D9)	1) Living Ro (C4) Filled Soil	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	nimum of one is req (A2) (S (B2) (B4)	(87)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su	a (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron teduction in T rface (C7) I Data (D9)	1) Living Ro (C4) Filled Soil	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Primary Indicators (min Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible	nimum of one is req (A2) (B2) (B4) (B4) (On Aerial Imagery	(87)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel	a (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron teduction in T rface (C7) I Data (D9)	1) Living Ro (C4) Filled Soil	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Surface Water (A1 K High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate	nimum of one is req (A2) (B2) (B4) (D4) (D4) (D5) (D7) (D7) (D7) (D7) (D7) (D7) (D7) (D7	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron teduction in T rface (C7) I Data (D9)	1) Living Ro (C4) Filled Soil	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations:	s (B2) c (B4) d Concave Surface	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on leduced Iron leduction in T rface (C7) I Data (D9) n in Remarks	Living Ro (C4) Filled Soil)	, ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9)
Surface Water (AI X High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	nimum of one is required (A2) s (B2)) ((B4)) c on Aerial Imagery of Concave Surface Yes	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on i educed Iron feduction in T rface (C7) I Data (D9) n in Remarks Depth (inche	Living Ro (C4) Filled Soil)	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Surface Water (A1 X High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present?	s (B2)) ((B4)) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ Yes _	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche	Living Ro (C4) Filled Soil)	ls (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2	(C2) ial Imagery (C9))
Surface Water (A1 K High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Gaturation Present?	inimum of one is required. (A2) (B2) (B4) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e)	(B7) (B8) X	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche Depth (inche	Living Ro (C4) Filled Soil) es): _ es): _	7"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Surface Water (A1 K High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Data	inimum of one is required. (A2) (B2) (B4) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e)	(B7) (B8) X	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche Depth (inche	Living Ro (C4) Filled Soil) es): _ es): _	7"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Surface Water (A1 X High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Data	s (B2) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	(B7) (B8) X onitoring wel	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No No No No I, aerial photos, pre	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche Depth (inche vious inspect	Living Ro (C4) Filled Soil) es): _ es): _	7"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Surface Water (A1 X High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fring) Describe Recorded Data	inimum of one is required. (A2) (B2) (B4) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e)	(B7) (B8) X onitoring wel	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No No No No I, aerial photos, pre	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche Depth (inche vious inspect	Living Ro (C4) Filled Soil) es): _ es): _	7"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))
Surface Water (A1 K High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Inundation Visible Sparsely Vegetate Field Observations: Surface Water Present? Water Table Present? Saturation Present? Gincludes capillary fringing Describe Recorded Data	s (B2) (A2) s (B2) on Aerial Imagery d Concave Surface Yes _ Yes _ Yes _ e) a (stream gauge, m	(B7) (B8) X onitoring wel	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain No No No No I, aerial photos, pre	a (B13) Plants (B14) fide Odor (C1 ospheres on educed Iron leduction in T rface (C7) I Data (D9) n in Remarks Depth (inche Depth (inche vious inspect	Living Ro (C4) Filled Soil) es): _ es): _	7"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9))

Project/Site:	Inaugural South Suburban Airport		City/County:	Will County	Sampling Dat	e: 4/24/2009	
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Poi	nt: W02NW-2U SC-1	
Investigator(s):	T. Radke; Robyn West	;	Section, Tow	nship, Range	E Section 4; T33N; R13E		
Landform (hillside,	terrace, etc.): drainageway				Local relief (concave, convex, nor	ne: concave	
Slope %: 2	Lat:	41.37	65814	Long	:87.70035075	Datum: NAD83 I	Illinois East
Soil Unit Name:	Markham silt loam				NWI Classification	on: Upland	
Are climatic / hydro	ologic conditions on the site typical for this tim	e of year?		Yes	XNo		
Are Vegetation	Soil or hydrology X	Significant	ly disturbed?		Are "Normal Circumstances" present?	Yes <u>X</u>	No
Are Vegetation	Soil or hydrology	Naturally p	roblematic?	((if needed, explain any answers in Remarks	s.)	
SUMMARY OF	FINDINGS - Attach site map showi	ng sampl	ing point	locations,	transects, important features, etc	-	
Hydrophytic Vego Hydric Soils Pres Wetland Hydrolo	ent? Yes	No No No			Is the Sampling Area within a Wetland?	es No	<u>x</u>
Remarks: Tiled drainagew							
VEGETATION	- Use scientific names of plants.	Λ h = = l · · t =	Daminant	la dia atau	Daminana Taet Wadahast		
Tree Stratum	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species	4 (4)	
1. <u></u> 2. <u></u>					That Are OBL, FACW, or FAC	1(A)	
3. <u></u> 4. <u></u>					Total Number of Dominant Species Across All Strata:	(B)	
5. <u></u>	Total Cover:				Percent of Dominant Species		
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC:	50% (A/B)	
1. <u></u> 2. <u></u>					Prevalence Index Worksheet:		
3. <u></u> 4					Total % Cover of Multiply by OBL species x 1 =	<u>y:</u> 0	
5					FACW species 1 x 2 =	2	
	Total Cover:				FAC species 1 x 3 =	3	
Herb Stratum	(Plot size:)				FACU species 4 x 4 =	16	
	ogon gerardii	<u>65</u> 25	Y	FAC UPL	UPL species 3 x 5 = Column Totals 9 (A)	15 (D)	
Festuca Trifolium		5		FACU	Column rotals <u>9</u> (A)	(B)	
	millefolium	1	N	FACU	Prevalence Index = B/A =	4.0	
5. <u>Lonicera</u>		1	<u>N</u>	FACU			
	a simplex		<u>N</u>	FACU	Hydrophytic Vegetation Indicators: 50 Dominance Test is >50%		
7. <u>Daucus</u> 8. Aster pil		<u>1</u> 5	N N	UPL FACU	4 Prevalence Index is *3.0*		
9. Cyperus		5		1700	Morphological Adaptations* (Pro	vide supporting	
10	. op.				data in remarks or on a separate		
	Total Cover:	109			Problematic Hydrophytic Vegetat	ion (Explain)	
Woody Vine Stra					*Indicators of hydric soil and wetland hyd	` ' '	
1. <u></u> 2					Understand		
Z. <u></u>	Total Cover:				Hydrophytic Vegetation Present?	es No	<u>x</u>
Remarks: (Include	de photo numbers here or on a separate she	et.)			I		
		7					

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SOIL Sampling Point: W02NW-2U SC-1

Profile Description:	(Describe to the	depth neede	d to document t	he indicato	or or con	firm the	absence of indicators.)		
Depth	Matrix		P.	edox Featur	ec				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-13	10YR 5/3	80	7.5YR 3/2	5	С	PL	Sandy clay loam		
13-20	10YR6/2	80	10YR 5/6	15	CS	М	clay	Some gravel	
15 20	1011(0)2						Cidy		
			10YR 5/6	17	CS	M		Firm	
			7.5YR 3/2	2	C	PL			
								-	
								_, <u></u>	
·									
*Type: C=Concentra	tion, D=Depletion, RN	M=Reduced M	latrix, CS=Covered	or Coated S	Sand Grai	ins. **L	ocation: PL=Pore Lining, M=Ma	atrix	
Hydric Soil Indicate	ors:						Indicators for Problematic	Hydric Soils***:	
Historal (A1)			Sandy Gleyed	Matrix (CA)			Coast Prairie Rodov (A16)		
Histosol (A1) Histic Epipedon ((A2)	-	Sandy Redox		,		Coast Prairie Redox (A16) Iron-Manganese Masses (
Black Histic (A3)		-	Stripped Matr				Other (Explain in Remarks		
Hydrogen Sulfide		-	Loamy Mucky						
Stratified Layers 2 cm Muck (A10		-	Loamy Gleyed Depleted Mat)				
Depleted Below	Dark Surface (A11)	-	Redox Dark S	Surface (F6)					
Thick Dark Surfa	` '	-	Depleted Dar		7)	**	*Indicators of hydrophytic vegeta		
Sandy Mucky Mii 5 cm Mucky Pea	` '	-	Redox Depres	ssions (F8)			wetland hydrology must be pre unless disturbed or problema	•	
Restrictive Layer (i							, , , , , , , , , , , , , , , , , , ,		
, `	,								
Type: Depth (inches):							Hydric Soils Present?	Yes	No X
Remarks:							Tryunc 30113 Fresent:	165	NO <u>X</u>
	eld has lost topsoil								
HYDROLOGY Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is requ	uired; check a	II that apply)				Secondary Indicators (minimum	n of two required)	
Surface Water (A			Water-Staine		9)		Surface Soil Cracks (B6)		
High Water Table	e (A2)	-	Aquatic Fauna True Aquatic		`		Drainage Patterns (B10	(C3)	
Saturation (A3) Water Marks (B1	1)	-	Hydrogen Sul				Dry-Season Water Table (Crayfish Burrows (C8)	(C2)	
Sediment Depos	its (B2)	-	Oxidized Rhiz	ospheres or	n Living R	oots (C3)	Saturation Visible on Aeria		
Drift Deposits (B		-	Presence of R			: - (CC)	Geomorphic Position (D2)		
Algal Mat or Crus Iron Deposits (B	` '	-	Recent Iron F Thin Muck Su		Tilled 50	iis (Co)	FAC-Neutral Test (D5)		
Inundation Visib	le on Aerial Imagery (Gauge or We	II Data (D9)					
: : :	ted Concave Surface ((B8)	Other (Explai	n in Remark	s)				
Field Observations:									
Surface Water Presen				Depth (incl					
Water Table Present?	Yes _			Depth (incl					
Saturation Present?			No <u>X</u>	Depth (incl	hes):		Wetland Hydrology Presen	t? Yes	No X
(includes capillary frin Describe Recorded Da		onitorina well	. aerial photos, pre	vious inspe	ctions), if	available			
	, , ,	5	, , , , , ,	·	,,				
Remarks:									
Nemarks.									

Project/Site:	Inaugural South Suburban Airport	an Airport City/County: Will County		Will County	y Sampling Date: 24-Apr-09			
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W02NW	-2U SC-3		
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	: Section 2; T33N; R13E			
Landform (hillside	, terrace, etc.): hillslope				Local relief (concave, convex, none: Concave)		
Slope %: 3	Lat:	41.37	65814	Long	:B7.70035075 Da	atum: NAD83 Illinois East		
Soil Unit Name:	Markham silt loam				NWI Classification: Upland			
Are climatic / hydr	ologic conditions on the site typical for this	time of year?	?	Yes	X No			
Are Vegetation	Soil X or hydrology X	Significan	ily disturbed	?	Are "Normal Circumstances" present?	Yes X No		
Are Vegetation	Soil or hydrology	_ Naturally p	oroblematic?	'	(if needed, explain any answers in Remarks.)			
SUMMARY OF	FINDINGS - Attach site map sho	wing sam	pling poin	t locations	s, transects, important features, etc.			
Hydrophytic Veg Hydric Soils Pres Wetland Hydrolo	sent? Yes	No	Х		Is the Sampling Area within a Wetland? Yes	NoX		
Remarks: Tiled drainagew	ray with part open channel. Surroundin	g soil is high	ıly eroded.					
VEGETATION	- Use scientific names of plants.							
Tree Stratum	(Plot size:		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species			
1. Prunus s		<u>5</u>	·	FACU FACW	That Are OBL, FACW, or FAC 0	(A)		
3. <u></u> 4					Total Number of Dominant Species Across All Strata: 3	(B)		
5. <u></u>						(-/		
Sapling/Shrub St	Total Cover ratum (Plot size:)	:6			Percent of Dominant Species That Are OBL, FACW, or FAC: 0%	(A/B)		
1. <u></u> 2					Prevalence Index Worksheet:			
3. <u></u> 4					Total % Cover of Multiply by: OBL species x 1 = 0			
5					FACW species x 2 = 0			
	Total Cover	:			FAC species x 3 = 0			
Herb Stratum 1. Rubus a	(Plot size:) allegheniensis	15		FACU	FACU species			
2. Bromus	inermis	50		UPL	Column Totals 0 (A) 0	(B)		
3. 4. <u></u>					Prevalence Index = B/A = #DIV/	<u>'0!</u>		
5. <u></u> 6. <u></u>					Hydrophytic Vegetation Indicators:			
7. <u></u> 8. 					Dominance Test is >50% Prevalence Index is *3.0*			
9					Morphological Adaptations* (Provide support	rting		
10. <u></u>	Total Cover	: 65			data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explai	in)		
Woody Vine Stra					*Indicators of hydric soil and wetland hydrology mus	,		
1	,							
2. <u></u>	Total Cover	:			Hydrophytic Vegetation Present? Yes	NoX		
Remarks: (Include	de photo numbers here or on a separate sh	eet.)						
Old field vegeta	tion in eroded tree plantation (probably	former past	ure/crop lan	nd)				

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SOIL Sampling Point: W02NW-2U SC-3

Profile Description:	(Describe to the	depth neede	d to document t	he indicate	or or con	firm the	absence of indicators.)		
Depth	Matrix		R	edox Featur	es				
(Inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type*	Loc**	Texture	Remarks	
0-8	10YR 4/3	100	none				silty clay loam	moist, friable	
8-12	10YR 3/2	100	none				silty clay loam	moist, friable	
12-20	10YR 5/4	100	none				silty clay loam	moist, firm	
								,	
							-		
					·				
	· -				. ——		•		-
*Typou C-Concentral	tion D-Donlation D	M-Doducod M	atrix CC_Covered	l or Coatod	Cand Crain		ocations DI - Doro Lining M-N		
*Type: C=Concentrate Hydric Soil Indicate		M=Reduced Ma	atrix, CS=Covered	i or coateu .	Sariu Graii	15	Location: PL=Pore Lining, M=N Indicators for Problemation		
nyunc son mulcatt	лз.						indicators for Problematic	. Hydric Solis · · · .	
Histosol (A1)	(40)	_	Sandy Gleyed)		Coast Prairie Redox (A16		
Histic Epipedon (Black Histic (A3)		-	Sandy Redox Stripped Mat				Iron-Manganese Masses Other (Explain in Remar		
Hydrogen Sulfide		_	Loamy Mucky	. ,	1)			,	
Stratified Layers 2 cm Muck (A10)		_	Loamy Gleye Depleted Mat)				
` ') Dark Surface (A11)	-	Redox Dark S	` '					
Thick Dark Surfa		_	Depleted Dar	k Surface (F	7)	**:	*Indicators of hydrophytic vege	etation and	
Sandy Mucky Mir	` '	_	Redox Depre	ssions (F8)			wetland hydrology must be p unless disturbed or problem		
5 cm Mucky Pear Restrictive Layer (i							unless disturbed or problem	iduc.	
Restrictive Layer (1	i observed).								
Type:							Undein Caile Bresent?	Vaa	No V
Depth (inches): Remarks:							Hydric Soils Present?	Yes	No <u>X</u>
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is req	uired; check al	ll that apply)				Secondary Indicators (minimu	um of two required)	
Surface Water (A High Water Table		-	Water-Staine Aquatic Faun		9)		Surface Soil Cracks (B6) Drainage Patterns (B10		
Saturation (A3)	e (A2)	-	True Aquatic)		Dry-Season Water Table	(C2)	
Water Marks (B1		_	Hydrogen Su				Crayfish Burrows (C8)		
Sediment Deposits (B		-	Oxidized Rhiz Presence of F			oots (C3)	Saturation Visible on Aer Geomorphic Position (D2	3 , \ ,	
Algal Mat or Crus		-	Recent Iron F		` ,	ls (C6)	FAC-Neutral Test (D5)	-)	
Iron Deposits (B			Thin Muck Su						
	le on Aerial Imagery ted Concave Surface		Gauge or We Other (Explai		(s)				
Field Observations:		_	Other (Explain	II III Reman					
Surface Water Present		N	No X	Depth (inc	hes):				
Water Table Present?	Yes		No X	Depth (inc	-		•		
Saturation Present?	Yes		No X	Depth (inc			Wetland Hydrology Prese	nt? Yes	No X
(includes capillary frin									<u> </u>
Describe Recorded Da	ita (stream gauge, m	onitoring well,	aerial photos, pre	evious inspe	ctions), if	available			
Remarks:									
Remarks.									

Site: Inaugural South Suburban Airport

Locale: W02NW5
Date: April 23, 2008 1 hours
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW5.inv

FLORIST	TIC QUALITY DATA	Native	6	66.7%	Adven	tive 3	33.3%
6 NA	ATIVE SPECIES	Tree	1	11.1%	Tree	0	0.0%
9 :	Total Species	Shrub	2	22.2%	Shrub	0	0.0%
2.0 NA	ATIVE MEAN C	W-Vine	0	0.0%	W-Vin	e 0	0.0%
1.3 7	N/Adventives	H-Vine	0	0.0%	H-Vin	e 0	0.0%
	ATIVE FQI	P-Forb	3	33.3%	P-For	b 0	0.0%
	N/Adventives	B-Forb	0	0.0%	B-For		0.0%
	ATIVE MEAN W	A-Forb	0	0.0%	A-For		0.0%
0.6	N/Adventives	P-Grass	0		P-Gra		33.3%
AVG: Fa	aculative (-)	A-Grass	0		A-Gra		0.0%
		P-Sedge	0		P-Sed		0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSTOGNOMY	COMMON NAME
11011011111	0 00121111110 111112					11110100110111	
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
DACGLO	0 DACTYLIS GLOMERATA			3	FACU	Ad P-Grass	ORCHARD GRASS
ERIPHI	4 Erigeron philadelp	hicus		-3	FACW	Nt P-Forb	MARSH FLEABANE
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
RHUTYP	1 Rhus typhina			5	UPL	Nt Tree	STAGHORN SUMAC
RUBALL	3 Rubus allegheniens	is		2	FACU+	Nt Shrub	COMMON BLACKBERRY
SAMCAN	1 Sambucus canadensi	S		-2	FACW-	Nt Shrub	ELDERBERRY
		=		_			
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD

Project/Site:	Inaugural South Suburban A	irport	City/County:	Will County		Sampling Date: 2	23-Apr-09	
Applicant/Owner:	Illinois Department of Transpo		State: Illinois	Sampling Point: N	N02NW-5 SC	:-1		
Investigator(s):	T. Radke; Robyn West		_Section, Tow	nship, Range	Section 2; T33N; R13	E		
Landform (hillside,	terrace, etc.): Hillside se	ер			Local relief (co	ncave, convex, none:	oncave	
Slope %: 6		_at:41.3	8316197	Long	-87.703	38874	Datum	n: NAD83 Illinois East
Soil Unit Name:	Ozaukee silty clay loam					NWI Classification: F	PEM .	
Are climatic / hydro	ologic conditions on the site typic	al for this time of yea	ar?	Yes	X No			
Are Vegetation	Soil or hydrolo	gy Significa	antly disturbed?	P	Are "Normal Circumstan	ces" present?	Ye	s X No
Are Vegetation	Soil or hydrolo	gy Naturally	y problematic?	(if needed, explain any a	answers in Remarks.)		
SUMMARY OF	FINDINGS - Attach site m	ap showing sar	npling poin	t locations	, transects, import	tant features, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	sent?	X N /es X N N	0		Is the Sampling Area within a Wetland?	Yes_	х	No
	ed slope in the center of White			,				
VEGETATION	- Use scientific names of							
Tree Stratum 1.	(Plot size:)		e Dominant r Species?	Indicator Status	Number of Dominant S That Are OBL, FACW,	Species	3	_(A)
2. 3 4					Total Number of Domi Species Across All Str		3	(B)
5	To	otal Cover:			Percent of Dominant S	- Snacias		
Sapling/Shrub St 1. Rubus a			- Y	FACU	That Are OBL, FACW,	•	100%	_(A/B)
	us canadensis	5	N N	FACW	Prevalence Index Wo			
4. 5					OBL species FACW species	x 1 = x 2 =	0	_
5. <u></u>	To	otal Cover:	<u> </u>		FAC species	x 2 =	0	-
Herb Stratum 1. Agrostis	(Plot size:)	80	Y	FACW-	FACU species UPL species	x 4 =	0	_
2. Helianth	us grosseserratus glomerata	25 10		FACW- FACU		0 (A)	Ö	(B)
4. <u>Festuca</u> 5		10	N	UPL	Prevalenc	e Index = B/A =	#DIV/0!	_
6 7 8 9 10					data in remark	est is >50% dex is *3.0* Adaptations* (Provide s or on a separate she	eet)	
Woody Vine Stra		otal Cover:	_		*Indicators of hydric so	ydrophytic Vegetation oil and wetland hydrolo	` ' '	present.
1. <u></u> 2		<u> </u>			•		37	
Z. <u></u>	To	otal Cover:		-	Hydrophytic Vegetation Present?	Yes_	х	No
Remarks: (Included)	de photo numbers here or on a se	parate sheet.)				Midwest Region -	- Interim Vers	ion

SOIL Sampling Point: W02NW-5 SC-1

Profile Description:	(Describe to the d	lepth needed	to document ti	ne indicato	r or con	firm the	absence of indicators.)	
Depth	Matrix		Re	edox Feature	96			
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
0-9	10YR 2/1	98	10YR 4/2	2		М	silty clay loam	moist, friable; wet at 7"
		-						
· ·								
*Type: C=Concentrat		1=Reduced Ma	trix, CS=Covered	or Coated S	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=Ma	
Hydric Soil Indicato	rs:						Indicators for Problematic I	lydric Soils***:
Histosol (A1)			Sandy Gleyed	Matriy (S4)			Coast Prairie Redox (A16)	
Histic Epipedon (A2)	_	Sandy Redox				Iron-Manganese Masses (F	F12)
Black Histic (A3)	•	_	Stripped Matr	ix (S6)			Other (Explain in Remarks	
Hydrogen Sulfide		<u>X</u>	Loamy Mucky					
Stratified Layers 2 cm Muck (A10)		_	Loamy Gleyed Depleted Mate)			
I — ` '	Dark Surface (A11)	_	Redox Dark S					
Thick Dark Surface		_	Depleted Dark	k Surface (F	7)	***	Indicators of hydrophytic vegeta	ation and
Sandy Mucky Mir	` '	_	Redox Depres	sions (F8)			wetland hydrology must be pre-	•
5 cm Mucky Peat							unless disturbed or problemat	tic.
Restrictive Layer (if	observed):							
Type:								
Depth (inches):							Hydric Soils Present?	Yes X No
Remarks:								
·								
HYDROLOGY Wetland Hydrology	Indicators:							
,,,								
Primary Indicators (mi	nimum of one is requ	iired; check all	that apply)				Secondary Indicators (minimum	n of two required)
Surface Water (A		_	Water-Stained		9)		Surface Soil Cracks (B6)	
X High Water Table Saturation (A3)	e (A2)	_	Aquatic Fauna True Aquatic				Drainage Patterns (B10 Dry-Season Water Table ((2)
Water Marks (B1)	_	Hydrogen Sul				Crayfish Burrows (C8)	C2)
Sediment Deposi	ts (B2)	_	Oxidized Rhize			oots (C3)	Saturation Visible on Aeria	l Imagery (C9)
Drift Deposits (B3		_	Presence of R				Geomorphic Position (D2)	
Algal Mat or Crus Iron Deposits (B	` '	_	Recent Iron R Thin Muck Su		Tilled Soi	Is (C6)	FAC-Neutral Test (D5)	
	e on Aerial Imagery (B7)	Gauge or Wel					
	ed Concave Surface (Other (Explain		s)			
Field Observations:								
Surface Water Present	? Yes	N	o <u>X</u>	Depth (inch	nes):			
Water Table Present?	Yes	X N	0	Depth (inch	nes):	9"		
Saturation Present?	Yes	X N	0	Depth (inch	nes):	7"	Wetland Hydrology Present	t? Yes X No
(includes capillary fring		., .						
Describe Recorded Da	ta (stream gauge, mo	onitoring well,	aerial photos, pre	vious inspe	ctions), if	available		
Remarks:								
icinario.								

Project/Site:	Inaugural South Suburban Airport		City/County:	Will County	Sampling [Date: 23-Apr-09		
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling F	oint: W02NW-5U	SC-2	
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.): Hillside				Local relief (concave, convex,	none: concave		
Slope %: 6	Lat:	41.383	316197	Long	:87.70338	874 Datun	n: <u>NAD83 II</u>	Ilinois East
Soil Unit Name:	Ozaukee silt loam/Markham silt loam				NWI Classifica	tion: Upland		
Are climatic / hydro	ologic conditions on the site typical for this ti	me of year?	?	Yes	X No			
Are Vegetation	Soil or hydrology	Significant	tly disturbed?	? /	Are "Normal Circumstances" present?	Ye	es <u>X</u>	No
Are Vegetation	Soil or hydrology	Naturally p	oroblematic?	(if needed, explain any answers in Rema	arks.)		
SUMMARY OF	FINDINGS - Attach site map show	ving sam	pling poin	t locations	s, transects, important features	, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	sent? Yes	No No No			Is the Sampling Area within a Wetland?	Yes	No	<u> </u>
Remarks: Unplanted in the	middle of planted White Pine stand							
VEGETATION	- Use scientific names of plants.							
Tree Stratum	(Plot size:		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species			
1. Pinus str 2.	robus	60	<u> </u>	FACU	That Are OBL, FACW, or FAC	0	(A)	
3. <u></u> 4					Total Number of Dominant Species Across All Strata:	4	(B)	
5	Total Cover:				Percent of Dominant Species		_	
Sapling/Shrub St					That Are OBL, FACW, or FAC:	0%	(A/B)	
1. <u></u> 2. <u></u>					Prevalence Index Worksheet:			
3. <u></u> 4. <u></u>					Total % Cover of Multiply OBL species x 1 =		<u></u>	
5. <u></u>	Total Occupa				FACW species x 2 =	-	_	
Herb Stratum	Total Cover: (Plot size:)				FAC species x 3 = FACU species x 4 =		_	
1. Solidago	o altissima	25	Υ	FACU	UPL species x 5 =	0	_	
Entuca Dactylis	elatior glomerata	<u>50</u> 	<u>Y</u> Y	UPL FACU	Column Totals (A)	0	(B)	
4. <u>Agrostis</u> 5		10	N	FACW	Prevalence Index = B/A =	#DIV/0!	_	
6 7					Hydrophytic Vegetation Indicators: Dominance Test is >50%			
8					Prevalence Index is *3.0*	Danida amanadia	_	
9. <u></u> 10. <u></u>					Morphological Adaptations* (l data in remarks or on a separa		g	
Woody Vine Stra	Total Cover: tum (Plot size:)	110			Problematic Hydrophytic Vege *Indicators of hydric soil and wetland I		a precent	
1. <u></u>	(1 101 5126)				·	lydrology must be	present.	
2. <u></u>	Total Cover:				Hydrophytic Vegetation Present?	Yes	_ No	<u> x</u>
Remarks: (Include	de photo numbers here or on a separate she	et.)						
Old field vegetar	tion in eroded tree plantation (probably f	ormer past	ure/crop lan	d)				

US Army Corps of Engineers

SOIL Sampling Point: W02NW-5U SC-2

Profile Description:	(Describe to the	uepui neeu	ca to accament a			ciic	absence of indicators.)		
Depth	Matrix		Re	edox Feature	ıs				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-9	10YR 3/1	98	10YR 5/4	2	RM	М	silty clay loam	Moist, friable	
9-16	10YR5/2	82	10YR3/1	5	RM	М	silty clay loam	Moist, friable	
		- 02					Sitey ciay foath	11015¢ Mable	
16-18	No recovery		10YR 5/6	12	RM	M			
							-		
*Type: C=Concentra	tion, D=Depletion, R	M=Reduced I	Matrix, CS=Covered	or Coated S	and Grain	ns. **L	ocation: PL=Pore Lining, M=N	Matrix	
Hydric Soil Indicate	ors:		•				Indicators for Problemati	c Hydric Soils***:	
-								•	
Histosol (A1)	(42)		Sandy Gleyed				Coast Prairie Redox (A1		
Histic Epipedon Black Histic (A3)			Sandy Redox Stripped Matr				Iron-Manganese Masses Other (Explain in Remar	ks)	
Hydrogen Sulfide			Loamy Mucky	. ,)			,	
Stratified Layers			Loamy Gleyed						
2 cm Muck (A10) Dark Surface (A11)		Depleted Mati Redox Dark S	. ,					
Thick Dark Surfa			Depleted Dark		7)	***	Indicators of hydrophytic vega	etation and	
Sandy Mucky Mi	` '		Redox Depres	sions (F8)			wetland hydrology must be p		
5 cm Mucky Pea							unless disturbed or problem	natic.	
Restrictive Layer (i	f observed):								
Type:									
Depth (inches):			• •				Hydric Soils Present?	Yes	No X
Remarks:						ı			
HYDROLOGY									
HYDROLOGY Wetland Hydrology	Indicators:								
		uired; check	all that apply)				Secondary Indicators (minima	um of two required)	
Primary Indicators (m Surface Water (A)	inimum of one is req	uired; check	Water-Stained)		Surface Soil Cracks (B6)		
Primary Indicators (m Surface Water (n High Water Tabl	inimum of one is req	uired; check	Water-Stained	a (B13)	•		Surface Soil Cracks (B6) Drainage Patterns (B10)	
Primary Indicators (m Surface Water (A High Water Tabl Saturation (A3)	inimum of one is req A1) e (A2)	uired; check	Water-Stained Aquatic Fauna True Aquatic	a (B13) Plants (B14)			Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table)	
Primary Indicators (m Surface Water (n High Water Tabl	inimum of one is req A1) e (A2)	uired; check	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14) fide Odor (C ospheres on	1) Living Ro	oots (C3)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (A High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B	inimum of one is req A1) e (A2) :) its (B2) 3)	uired; check	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhize Presence of R	a (B13) Plants (B14) fide Odor (Cospheres on educed Iron	1) Living Ro (C4)	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (A High Water Tabl Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B Algal Mat or Cru	inimum of one is req A1) e (A2) .) its (B2) 3) st (B4)	uired; check	Water-Stained Aquatic Fauna True Aquatic Hydrogen Sull Oxidized Rhiza Presence of R Recent Iron R	e (B13) Plants (B14) fide Odor (Cospheres on educed Iron reduction in	1) Living Ro (C4)	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (AM) High Water Table Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B1) Algal Mat or Cru Iron Deposits (B1)	inimum of one is req A1) e (A2) .) its (B2) 3) st (B4)		Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhize Presence of R	a (B13) Plants (B14) fide Odor (Coospheres on educed Iron leduction in rface (C7)	1) Living Ro (C4)	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (number of the state	inimum of one is req A1) e (A2) .) its (B2) 3) st (B4) 5)	(B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhize Presence of R Recent Iron R Thin Muck Su	a (B13) Plants (B14) fide Odor (Coospheres on educed Iron leduction in rface (C7) I Data (D9)	1) Living Ro (C4) Tilled Soi	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (number of the state	inimum of one is req A1) e (A2) .) its (B2) 33 st (B4) 5) le on Aerial Imagery ted Concave Surface	(B7)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhize Presence of R Recent Iron R Thin Muck Su Gauge or Wel	a (B13) Plants (B14) fide Odor (Coospheres on educed Iron leduction in rface (C7) I Data (D9)	1) Living Ro (C4) Tilled Soi	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (number of the state	A1) e (A2) .) its (B2) st (B4) 5) le on Aerial Imagery ted Concave Surface	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhize Presence of R Recent Iron R Thin Muck Su Gauge or Wel	a (B13) Plants (B14) fide Odor (Coospheres on educed Iron leduction in rface (C7) I Data (D9)	1) Living Ro (C4) Tilled Soi	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (A High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegetal	A1) e (A2) .) its (B2) 33) st (B4) 5) le on Aerial Imagery ted Concave Surface : t? Yes	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhizi Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (Cospheres on educed Iron feduction in rface (C7) I Data (D9) n in Remarks	1) Living Ro (C4) Tilled Soi s) es):	` ,	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9)	
Primary Indicators (m Surface Water (A High Water Tabl Saturation (A3) Water Marks (B1) Sediment Depos Drift Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegetal Field Observations: Surface Water Presen	A1) e (A2) .) its (B2) 33) st (B4) 5) le on Aerial Imagery ted Concave Surface : t? Yes	(B7) (B8) X	Water-Stained Aquatic Frue Aquatic Hydrogen Sull Oxidized Rhizi Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (Cospheres on educed Iron reduction in rface (C7) I Data (D9) Depth (inch	1) Living Ro (C4) Tilled Soi s) es):es):	s (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D	e (C2) rial Imagery (C9) 2)	No
Primary Indicators (m Surface Water (n High Water Tabl Saturation (A3) Water Marks (B1 Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Inundation Visib Sparsely Vegetal Field Observations: Surface Water Presen Water Table Present? (includes capillary frin	inimum of one is req A1) e (A2) .) its (B2) .3) sts (B4) 5) le on Aerial Imagery ted Concave Surface : t? Yes Yes Yes Lege)	(B7) (B8)	Water-Stained Aquatic Fauna True Aquatic Hydrogen Suli Oxidized Rhizi Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (Cooppheres on educed Iron leduction in rface (C7) I Data (D9) n in Remarks Depth (inch Depth (inch Depth (inch	1) Living Ro (C4) Tilled Soi s) es): _es): _es): _	11"	Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Ae Geomorphic Position (D FAC-Neutral Test (D5)	e (C2) rial Imagery (C9) 2)	No
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Site: Inaugural South Suburban Airport

Locale: W02NW6
Date: April 23, 2009 30 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW6.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	3	100.0%
0 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
3 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	2	66.7%
1.3 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	1	33.3%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
MOLVER	0 MOLLUGO VERTICILLATA	0 FAC	Ad A-Forb	CARPET WEED
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL

Project/Site:	Inaugural South Suburban Airport	City/County	Will County		Sampling Date: 2	23-Apr-09	
Applicant/Owner:	Illinois Department of Transportation			State: Illinois	_Sampling Point: \(\)	W02NW-6 SC-1	
Investigator(s):	T. Radke; Robyn West	Section, Tov	vnship, Range	Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.): drainageway/terrace			Local relief (conca	ave, convex, none:	concave	
Slope %: 0	Lat:	41.381791	Long	:	-87.70283858	Datum: NAD83 Illinois	East
Soil Unit Name:	Drummer silty clay loam			N	WI Classification: I	PEM	
Are climatic / hydro	ologic conditions on the site typical for this ti	me of year?	Yes	X No			
Are Vegetation	Soil or hydrology X	Significantly disturbed	? /	Are "Normal Circumstances	s" present?	Yes X No	
Are Vegetation	Soil or hydrology	Naturally problematic?	? (if needed, explain any ans	wers in Remarks.)		
SUMMARY OF	FINDINGS - Attach site map show	ing sampling poir	nt locations	, transects, importar	nt features, etc.	•	
Hydrophytic Vego Hydric Soils Pres Wetland Hydrolo	sent? Yes X	No No		Is the Sampling Area within a Wetland?	Yes_	X No	
	ed field next to Black Walnut Creek. Prob	pably tiled					
VEGETATION	- Use scientific names of plants.	Absolute Deminent	Indiantor	Dominance Test Works	hoot.		
Tree Stratum	(Plot size:)	Absolute Dominant % Cover Species?	Indicator Status	Number of Dominant Spe	ecies	2 (A)	
1. 2.				That Are OBL, FACW, or	_	(A)	
3. <u></u> 4. 				Total Number of Dominar Species Across All Strata		3 (B)	
5				·	-	, , ,	
Sapling/Shrub St	Total Cover: ratum (Plot size:)			Percent of Dominant Spe That Are OBL, FACW, or		67% (A/B)	
1. <u></u> 2				Prevalence Index Work	sheet:		
3				Total % Cover of	Multiply by: x 1 =		
4. <u></u> 5. <u></u>				OBL species FACW species	x 1 =	0	
	Total Cover:			FAC species	x 3 =	0	
Herb Stratum	(Plot size:)			FACU species	x 4 =	0	
Abutilon Setaria (theophrasti plauca	20 Y 10 Y	FACU FAC	UPL species Column Totals 0	x 5 = _(A)	0 0 (B)	
	verticillata	20 Y	FAC		_	(
4. 5				Prevalence I	ndex = B/A =	#DIV/0!	
6				Hydrophytic Vegetation	Indicators:		
7. <u></u>				Dominance Test			
8. <u></u> 9				Prevalence Index Morphological Ad	: is *3.0" laptations* (Provid	e supporting	
10					or on a separate she		
	Total Cover:	50		Problematic Hydr	ophytic Vegetation	(Explain)	
Woody Vine Stra	tum (Plot size:)			*Indicators of hydric soil a	and wetland hydrol	ogy must be present.	
1. <u></u> 2. <u></u>				Hydrophytic			
	Total Cover:			Vegetation Present?	Yes_	X No	
Remarks: (Include	de photo numbers here or on a separate she	et.)					
Large sparsely	vegetated low area next to BWC. Evidence	ce of complete crop fa	ilure in 2008.				

US Army Corps of Engineers

SOIL Sampling Point: W02NW-6 SC-1

Depth	Matrix			edox Features					
(Inches)	Color (moist)	%	Color (moist)	<u></u> %	Type*	Loc**	Texture	Remarks	
0-14	10YR 2/1	100					silty clay loam	Moist, friable	
14-21	2.5/N	100					silty clay	Moist, firm	
			-					_	
	<u> </u>								
*T C. C	-ti D. Dl-ti D	M. Dadward Ma		C	1 6 :-	- **!	tion D. Donalinian M. M.		
··	ation, D=Depletion, R	м=кеаисеа ма	atrix, CS=Covered	or Coated Sa	and Grair	iS. ↑↑L	ocation: PL=Pore Lining, M=M		
Hydric Soil Indicat	tors:						Indicators for Problematic	: Hydric Soils***:	
Histosol (A1)			Sandy Gleyed	Matrix (S4)			Coast Prairie Redox (A16	5)	
Histic Epipedon	(A2)	-	Sandy Redox				Iron-Manganese Masses		
Black Histic (A3		_	Stripped Matr				X Other (Explain in Remark		
Hydrogen Sulfic	de (A4)	_	Loamy Mucky	Mineral (F1))			,	
Stratified Layers	s (A5)		Loamy Gleyed	d Matrix (F2)					
2 cm Muck (A10		<u> </u>	Depleted Mat						
	Dark Surface (A11)	_	X Redox Dark S						
Thick Dark Surf	, ,	_	Depleted Dar	`	')	***	Indicators of hydrophytic vege		
Sandy Mucky M		_	Redox Depres	ssions (F8)			wetland hydrology must be pr unless disturbed or problem		
5 cm Mucky Pea	. ,						unless disturbed or problem	iduc.	
Restrictive Layer ((if observed):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X	No
Remarks:		•					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
HYDROLOGY Wetland Hydrolog	v Indicators:								
Wetland Hydrolog		uired: check al	I that apply'				Secondary Indicators (minimum	um of two required)	
Wetland Hydrolog	y Indicators:	quired; check al	I that apply)				Secondary Indicators (minimu	ım of two required)	
Wetland Hydrolog	minimum of one is req	juired; check al	I that apply Water-Stainer	d Leaves (B9))		Secondary Indicators (minimu X Surface Soil Cracks (B6)	ım of two required)	
Wetland Hydrolog Primary Indicators (n	minimum of one is req	juired; check al)		,	ım of two required)	
Primary Indicators (n Surface Water (High Water Tab Saturation (A3)	minimum of one is req (A1) ble (A2)	juired; check al	Water-Stained Aquatic Faund True Aquatic	a (B13) Plants (B14)			X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table		
Wetland Hydrolog Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B	minimum of one is req (A1) ole (A2) B1)	uired; check al - - - -	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14) fide Odor (C1	1)		X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8)	(C2)	
Wetland Hydrolog Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Depor	minimum of one is required (A1) Ole (A2) Ole (B2) Ole (B2) Ole (B2) Ole (B2)	juired; check al - - - - -	Water-Stained Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) fide Odor (C1 ospheres on	1) Living Ro	ots (C3)	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer	(C2) ial Imagery (C9)	
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Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cr. Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Saturation Present? (includes capillary fri	(A1) ole (A2) sits (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface s: nt? Yes Yes Yes	(B7) (B8) XN	Water-Stainee Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on teduction in T orface (C7) Il Data (D9) n in Remarks Depth (inche	Living Ro (C4) Filled Soil) es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9)	No
Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cr. Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Saturation Present? (includes capillary fri	minimum of one is required (A1) cole (A2) distinct (B2) distinct (B2) distinct (B4) di	(B7) (B8) XN	Water-Stainee Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on teduction in T orface (C7) Il Data (D9) n in Remarks Depth (inche	Living Ro (C4) Filled Soil) es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9)	No
Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Depo: Drift Deposits (I Algal Mat or Cr. Iron Deposits (I Inundation Visil X Sparsely Vegeta Field Observations Surface Water Present Water Table Present? (includes capillary fri Describe Recorded D	minimum of one is required (A1) cole (A2) distinct (B2) distinct (B2) distinct (B4) di	(B7) (B8) XN	Water-Stainee Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (C1 ospheres on teduction in T orface (C7) Il Data (D9) n in Remarks Depth (inche	Living Ro (C4) Filled Soil) es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9)	No
Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Saturation Present? (includes capillary fri Describe Recorded D	(A1) ole (A2) sists (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface s: nt? Yes Yes Yes Jana (stream gauge, m	(B7) - N	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (CI ospheres on i teduced Iron Reduction in T urface (C7) Il Data (D9) n in Remarks; Depth (inche Depth (inche evious inspect	Living Roc (C4) Filled Soil) es): _ es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5) Wetland Hydrology Prese	(C2) ial Imagery (C9)	No
Wetland Hydrolog Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Water Table Present? (includes capillary fri Describe Recorded D	(A1) ole (A2) sists (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface s: nt? Yes Yes Yes Jana (stream gauge, m	(B7) - N	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (CI ospheres on i teduced Iron Reduction in T urface (C7) Il Data (D9) n in Remarks Depth (inche Depth (inche evious inspect	Living Roc (C4) Filled Soil) es): _ es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5)	(C2) ial Imagery (C9)	No
Wetland Hydrolog Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Water Table Present? (includes capillary fri Describe Recorded D	(A1) ole (A2) sists (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface s: nt? Yes Yes Yes Jana (stream gauge, m	(B7) - N	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (CI ospheres on i teduced Iron Reduction in T urface (C7) Il Data (D9) n in Remarks Depth (inche Depth (inche evious inspect	Living Roc (C4) Filled Soil) es): _ es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5) Wetland Hydrology Prese	(C2) ial Imagery (C9)	No
Wetland Hydrolog Primary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B X Sediment Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visit X Sparsely Vegeta Field Observations Surface Water Present Water Table Present? (includes capillary fri Describe Recorded D	(A1) ole (A2) sists (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface s: nt? Yes Yes Yes Jana (stream gauge, m	(B7) - N	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or Wel Other (Explain	a (B13) Plants (B14) fide Odor (CI ospheres on i teduced Iron Reduction in T urface (C7) Il Data (D9) n in Remarks Depth (inche Depth (inche evious inspect	Living Roc (C4) Filled Soil) es): _ es): _ es): _	11"	X Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aer X Geomorphic Position (D2 FAC-Neutral Test (D5) Wetland Hydrology Prese	(C2) ial Imagery (C9)	No

Project/Site:	Inaugural South Suburban Airport	City/County:	Will County	Sampling Dat	te: 23-Apr-09
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Poi	int: W02NW-6U SC-2
Investigator(s):	T. Radke; Robyn West	Section, Tow	vnship, Range	Section 2; T33N; R13E	
Landform (hillside,	, terrace, etc.): <u>drainageway terrace</u>	9		Local relief (concave, convex, no	ne:concave
Slope %: 1	Lat:	41.381791	Long	:87.70283858	B Datum: NAD83 Illinois East
Soil Unit Name:	Drummer silty clay loam/Jasper loam			NWI Classification	on: Upland
Are climatic / hydro	ologic conditions on the site typical for this	time of year?	Yes	X No	
Are Vegetation	Soil or hydrology X	_ Significantly disturbed	i? /	Are "Normal Circumstances" present?	Yes No <u>X</u>
Are Vegetation	Soil or hydrology	_ Naturally problematic?	? ((if needed, explain any answers in Remark	ks.)
SUMMARY OF	FINDINGS - Attach site map sho	wing sampling poir	nt locations	s, transects, important features, e	etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	sent? Yes X			Is the Sampling Area within a Wetland?	es NoX
Remarks: Unveget	tated crop field w/corn stubble				
VEGETATION	- Use scientific names of plants.				
Tree Stratum	(Plot size:	Absolute Dominant % Cover Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species	
1		·		That Are OBL, FACW, or FAC	(A)
3. 4. 				Total Number of Dominant Species Across All Strata:	0 (B)
5	Total Course				, , ,
Sapling/Shrub St	Total Cover tratum (Plot size:)	•	ļ	Percent of Dominant Species That Are OBL, FACW, or FAC:	#DIV/0! (A/B)
1. <u></u> 2. <u></u>				Prevalence Index Worksheet:	
3. <u></u> 4. <u></u>				Total % Cover of Multiply b OBL species x 1 =	<u>vy:</u> 0
5				FACW species x 2 =	0
Herb Stratum	Total Cover (Plot size:)	:		FAC species x 3 = FACU species x 4 =	0
1.	(Flot size)			UPL species x 5 =	0
2. 3.				Column Totals(A)	(B)
4. 5				Prevalence Index = B/A =	#DIV/0!
6				Hydrophytic Vegetation Indicators:	
7. <u></u> 8. 				Dominance Test is >50% Prevalence Index is *3.0*	
9. <u></u> 10				Morphological Adaptations* (Production of the Morphological Adaptation of the Morphological Ad	11 0
10	Total Cover			Problematic Hydrophytic Vegeta	,
Woody Vine Stra		·	ļ	*Indicators of hydric soil and wetland hydric	` ' '
1. <u></u> 2				Hydrophytic	
Z. <u></u>	Total Cover	:			es NoX
Remarks: (Include	de photo numbers here or on a separate sh	eet.)		ı	
Plot in corn stul	bble of 2008 crop. Corn crop in this plot	t was a solid stand with	no sign of w	rashout or failure	
1					

US Army Corps of Engineers

SOIL Sampling Point: W02NW-6U SC-2

Profile Description:	(Describe to the	depth needed	to document t	he indicato	or or con	firm the	absence of indicators.)		
Depth	Matrix		P.	edox Featur	ec				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-14	10YR 2/1	100					Silty clay loam	Moist, friable	
14-21	5Y 3.5/1	98	10YR 5/6	21		M	silty clay	Moist, firm	
14-21	31 3.3/1	90	101K 5/0			141	Silty Clay	MOISC, HITH	
								-	
								-	
								-	
*Type: C=Concentrat	tion D=Denletion RI	M=Reduced Ma	trix CS=Covered	or Coated	Sand Grai	ns **I	ocation: PL=Pore Lining, M=Ma	trix	
Hydric Soil Indicate	<u> </u>	- reduced ric	icin, co coverca	or couted t	ouria orai		Indicators for Problematic I		
Tryune Son Indicate), j,						indicators for i robicinatic i	Trydric Solis 1	
Histosol (A1)		_	Sandy Gleyed)		Coast Prairie Redox (A16)		
Histic Epipedon (Black Histic (A3)		_	Sandy Redox Stripped Matr				Iron-Manganese Masses (I		
Hydrogen Sulfide		_	Loamy Mucky	. ,	L)		Other (Explain in Remarks	o)	
Stratified Layers	(A5)	_	Loamy Gleyed	d Matrix (F2					
2 cm Muck (A10)		_	Depleted Mat						
X Thick Dark Surfa	Dark Surface (A11) ce (A12)	_	Redox Dark S Depleted Dar		7)	***	*Indicators of hydrophytic vegeta	ation and	
Sandy Mucky Mir	` '	_	Redox Depres		.,		wetland hydrology must be pre		
5 cm Mucky Peat	t or Peat (S3)						unless disturbed or problema	tic.	
Restrictive Layer (i	f observed):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X	No
Remarks:							•		
HYDROLOGY Wetland Hydrology	Indicators								
Wedana Hydrology	muicators.								
Primary Indicators (m	inimum of one is req	uired; check all	that apply)				Secondary Indicators (minimum	n of two required)	
Surface Water (A		_	Water-Staine		9)		Surface Soil Cracks (B6)		
High Water Table	e (A2)	_	Aquatic Fauna	` ,			Drainage Patterns (B10	(2)	
Saturation (A3) Water Marks (B1)	_	True Aquatic Hydrogen Sul				Dry-Season Water Table (Crayfish Burrows (C8)	(C2)	
Sediment Deposi		_	Oxidized Rhiz			oots (C3)	Saturation Visible on Aeria	al Imagery (C9)	
Drift Deposits (B		_	Presence of R				Geomorphic Position (D2)		
Algal Mat or Crus Iron Deposits (B	, ,	_	Recent Iron F Thin Muck Su		Tilled Soi	ls (C6)	FAC-Neutral Test (D5)		
	le on Aerial Imagery	(B7)	Gauge or We						
	ted Concave Surface		Other (Explai		s)				
Field Observations:									
Surface Water Present	t? Yes _	N	0	Depth (incl	hes):				
Water Table Present?		N		Depth (incl	nes):				
Saturation Present?	Yes		0	Depth (incl	hes):		Wetland Hydrology Present	t? Yes	No X
(includes capillary frin									
Describe Recorded Da	ita (stream gauge, m	onitoring well,	aerial photos, pre	evious inspe	ctions), if	available			
Remarks:									

Site: Inaugural South Suburban Airport

Locale: W02NW7
Date: May 1, 2009 30 minutes
By: AECOM;T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02NW7.inv

29 NA 40 1 3.7 NA 2.7 T 20.1 NA 17.1 T -1.7 NA -0.5 T	TIC QUALITY DATA ATIVE SPECIES Fotal Species ATIVE MEAN C W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W W/Adventives ac. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	29 1 1 0 18 1 3 2 0 1	72.5% 2.5% 2.5% 2.5% 0.0% 45.0% 2.5% 7.5% 5.0% 0.0% 2.5% 0.0% 2.5%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For A-Gra A-Gra A-Sed	0 2 e 0 0 b 2 b 4 b 0 0 ss 3 ss 0	27.5% 0.0% 5.0% 0.0% 5.0% 10.0% 0.0% 7.5% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ALLCER	7 Allium cernuum			1	[FAC-]	Nt P-Forb	NODDING WILD ONION
ARCMIN	0 ARCTIUM MINUS			5	UPL	Ad B-Forb	COMMON BURDOCK
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BARVUL	O BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CXSTRI	5 Carex stricta			-5	OBL	Nt P-Sedge	COMMON TUSSOCK SEDGE
CICMAC	6 Cicuta maculata			-5	OBL	Nt P-Forb	WATER HEMLOCK
CIRMUT	10 Cirsium muticum			-5	OBL	Nt B-Forb	SWAMP THISTLE
DAUCAR	O DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratum	m		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	O Equisetum arvense			0	FAC	Cryptogam	HORSETAIL
ERYALB	5 Erythronium albidum	m		5	UPL	Nt P-Forb	WHITE TROUT LILY
GERMAC	4 Geranium maculatum			5	[UPL]	Nt P-Forb	WILD GERANIUM
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GEULAT	2 Geum laciniatum tr	ichocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	O LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
LYCAME	5 Lycopus americanus			-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
MIMRIN	6 Mimulus ringens			-5	OBL	Nt P-Forb	MONKEY FLOWER
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	O PHALARIS ARUNDINAC	EΑ		-4	FACW+	Ad P-Grass	REED CANARY GRASS

PHRAUS	1 Phragmites australis	-4 FACW+	Nt P-Grass	COMMON REED
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLGVI	2 Polygonum virginianum	0 FAC	Nt P-Forb	WOODLAND KNOTWEED
POTSIS	4 Potentilla simplex	4 FACU-	Nt P-Forb	COMMON CINQUEFOIL
PYCVIR	5 Pycnanthemum virginianum	-4 FACW+	Nt P-Forb	COMMON MOUNTAIN MINT
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SIUSUA	7 Sium suave	-5 OBL	Nt P-Forb	TALL WATER PARSNIP
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET

Project/Site:	Inaugural South Suburban Airpo	rt	City/County:	Will County		Sampling Date:	1-May-09	
Applicant/Owner:	Illinois Department of Transportati	on			State: Illinois	Sampling Point:	W02NW-	7 S2
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	e: Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.): drainageway				Local relief (cond	cave, convex, none:	concave	
Slope %: 2	Lat: <u>4</u>	11.37752692		Long	g: <u>-87.69935981</u>		Datum:	NAD83 Illinois East
Soil Unit Name:	Markham silty clay loam (Ashkum	silty clay loam in	clusion)			NWI Classification:	PEM	
Are climatic / hydro	ologic conditions on the site typical for	this time of year?		Yes	XNo			
Are Vegetation	Soil or hydrology _	Significant	ly disturbed?		Are "Normal Circumstance	es" present?	Yes	No
Are Vegetation	Soil or hydrology _	Naturally p	roblematic?		(if needed, explain any an	swers in Remarks.)		
SUMMARY OF	FINDINGS - Attach site map s	howing sampl	ling point	locations,	transects, important	t features, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog Remarks:	ent? Yes	X No			Is the Sampling Area within a Wetland?	Yes_	х	No
-								
VEGETATION -	- Use scientific names of plant			1 2 4				
Tree Stratum	(Plot size:)		Dominant Species?	Indicator Status	Number of Dominant Sp	pecies		(4)
1. 2.					That Are OBL, FACW, o	_	1	_(A)
3. <u></u> 4. <u></u>					Total Number of Domini Species Across All Stra		1	_(B)
5. <u></u>	Total C	Cover:			Percent of Dominant Sp	pecies		
Sapling/Shrub St					That Are OBL, FACW, o		100%	_(A/B)
1. 2. <u></u>					Prevalence Index Wor			
3. <u></u> 4. <u></u>					Total % Cover of OBL species	$\frac{\text{Multiply by:}}{\text{x 1 =}}$	_ ₀	_
5. <u></u>					FACW species	x 2 =	0	_
Harb Stratum	Total C (Plot size:)	over:			FAC species FACU species	x 3 =	0	=
Herb Stratum 1. Carex st	- `	80	Υ	OBL	UPL species	x 4 = x 5 =	0	-
	us grosseserratus	10	N	FACW	Column Totals 0	(A)	0	(B)
Aster sin Phalaris	nplex arundinacea	<u>1</u> 10	N N	FACW FACW	Prevalence	e Index = B/A =	#DIV/0!	
5. Pastinad		5	N	UPL	i revalence	IIIdex = D/A =	#DIV/0:	-
6.					Hydrophytic Vegetation			
7. <u></u>					Dominance Tes Prevalence Inde			
8. <u></u> 9						ex is *3.0" Adaptations* (Provide	supporting	1
10						or on a separate she		
	Total C	Cover: 106			Problematic Hyd	drophytic Vegetation	(Explain)	
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil	l and wetland hydrolo	gy must be	present.
1. <u></u> 2		·			Dhadaa ahada			
Z. <u></u>	Total C	Cover:			Hydrophytic Vegetation Present?	Yes_	Х	No
Remarks: (Include	de photo numbers here or on a separa	te sheet.)					_	

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SOIL Sampling Point: W02NW-7 S2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (Inches) Loc** Texture 0-20 10YR 2/1 Moist, friable *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) X Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, 5 cm Mucky Peat or Peat (S3) unless disturbed or problematic. Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present?** No Yes X Remarks: Sedge meadow in depression. Dark matrix color hides redox features. Soil characteristics match the hydric Ashkum soil which is a Markham inclusion. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) X High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10 Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8) **Field Observations:** Surface Water Present? surface Water Table Present? No Depth (inches): 2" Saturation Present? Depth (inches): **Wetland Hydrology Present?** No surface Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Within five feet of soil pit, water at surface.

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	s	Sampling Date:	1-May-09		
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois S	Sampling Point:	W02NW-7	'U S1	
Investigator(s):	T. Radke; Robyn W	'est		Section, Tow	nship, Range	: Section 2; T33N; R13E				
Landform (hillside,	terrace, etc.):	Drainageway				Local relief (concave,	convex, none:	Concave		
Slope %: 1		Lat: 41.377	52692		Long	: -87.69935981		Datum:	NAD83 III	inois East
Soil Unit Name:	Markham silty clay	loam				NW	Classification:	PEM		
Are climatic / hydro	ologic conditions on th	e site typical for this tim	e of year?		Yes	XNo				
Are Vegetation	Soil	or hydrology	Significant	ly disturbed?		Are "Normal Circumstances" p	resent?	Yes	X	No
Are Vegetation		or hydrology				(if needed, explain any answer	s in Remarks.)			
SUMMARY OF		·				transects, important fea	tures, etc.			
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog Remarks: Long, lo	ent? gy Present?	Yes Yes Yes Yes Yes Yes	No No No oint in adja	Х	d	Is the Sampling Area within a Wetland?	Yes		No	x
VEGETATION -	- Use scientific na	ames of plants.	Abasluta	Dominant	Indicator	Dominous Test Wester	4.			
Tree Stratum	(Plot size:)		Dominant Species?	Indicator Status	Number of Dominant Specie	s		(4)	
1. 2.						That Are OBL, FACW, or FA	.C	1	(A)	
3. <u></u> 4. <u></u>						Total Number of Dominant Species Across All Strata:		3	(B)	
5. <u></u>		 Total Cover:				Percent of Dominant Specie	s			
Sapling/Shrub St)				That Are OBL, FACW, or FA		33%	(A/B)	
2	llegheniensis		35	<u>Y</u>	FACU	Prevalence Index Workshe				
3. <u></u> 4						Total % Cover of OBL species	Multiply by: x 1 =	_ ₀		
5						FACW species	x 2 =	0		
Hart Otration	(Districts)	Total Cover:	35			FAC species	x 3 =	0		
Herb Stratum 1. Daucus	(Plot size: carota)	1	N	UPL	FACU species UPL species	x 4 = x 5 =	0		
2. Bromus			80	Υ	UPL	Column Totals 0 (A	A)	0	(B)	
3. <u>Festuca</u> 4. Pastinac			<u>1</u> 5	N N	UPL UPL	Prevalence Inde	ex = B/A =	#DIV/0!		
5. Aster pile 6. Poa prat	osus		1 40	N Y	FACU FAC	Hydrophytic Vegetation Inc Dominance Test is >	dicators:			
8						Prevalence Index is Morphological Adapt	*3.0*			
9. <u></u> 10. <u></u>						data in remarks or or				
		Total Cover:	128			Problematic Hydroph				
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and	wetland hydrolo	ogy must be	present.	
2		Total Cover:				Hydrophytic Vegetation Present?	Yes		No	<u>x</u>
Remarks: (Include	de photo numbers her	e or on a separate shee	et.)			<u> </u>				

US Army Corps of Engineers

SOIL Sampling Point: **W02NW7U S1** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Loc** Texture Color (moist) 0-9 2.5Y 4/2 100 9-14 2.5Y 4/2 99 5YR 4/6 14-21 2.5Y 3/1 60 2.5Y 4/2 40 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present?** No X Yes Remarks: **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10 Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Drift Deposits (B3) Presence of Reduced Iron (C4) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) **Field Observations:** Surface Water Present? Water Table Present? Depth (inches): Depth (inches): Wetland Hydrology Present? Saturation Present? No Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks:

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson **Tory Schultz** State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? W02NW-8 **X** Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Tiled, grassed waterway. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name Stratum % Cover Bromus inermis UPL **HERB** 7. Setaria faberi FACU+ **HERB** 8. --2. Festuca elation UPL **HERB** --3. 9. ----Rumex crispus FAC+ **HERB** 10. __ --Ambrosia trifida FAC+ **HERB** 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Cover percentages not collected; dominant vegetation cover consists of upland grasses **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS slide review site SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No soil core collected* Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped. *Wetland vegetation and wetland hydrology is not present, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core taken* No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *Wetland vegetation and wetland hydrology is not present, so no soil core taken.

Site: Inaugural South Suburban Airport

Site: Inaugural South Suburban Airport
Locale: W02NW9
Date: April 24, 2009 30 minutes
By: AECOM; T. Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W02NW9.inv
Notes: FQI originally W02NW4

FLOR	ISTIC QUALITY DATA	Native	11	52.4%	Adven	tive 1	0	47.6%
11	NATIVE SPECIES	Tree	0	0.0%	Tree		0	0.0%
21	Total Species	Shrub	3	14.3%	Shrub		0	0.0%
1.9	NATIVE MEAN C	W-Vine	0	0.0%	W-Vin	е	0	0.0%
1.0	W/Adventives	H-Vine	0	0.0%	H-Vin	е	0	0.0%
6.3	NATIVE FQI	P-Forb	4	19.0%	P-For	b	3	14.3%
4.6	W/Adventives	B-Forb	0	0.0%	B-For	b	4	19.0%
-0.5	NATIVE MEAN W	A-Forb	3	14.3%	A-For	b	0	0.0%
0.6	W/Adventives	P-Grass	1	4.8%	P-Gra	SS	3	14.3%
AVG:	Faculative	A-Grass	0	0.0%	A-Gra	SS	0	0.0%
		P-Sedge	0	0.0%	P-Sed	ge	0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge	0	0.0%
		Cryptogam	0	0.0%				
CRONYM	C SCIENTIFIC NAME				W WETNESS	PHYSIOGN	OMY	COMMON
LLPET	O ALLIARIA PETIOLATA				0 FAC	Ad B-For	b	GARLIC
LLCER	7 Allium cernuum				1 [FAC-]	Nt P-For	b	NODDING

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ALLPET	0 ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
ALLCER	7 Allium cernuum	1 [FAC-]	Nt P-Forb	NODDING WILD ONION
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS	5 UPL	Ad B-Forb	COMMON BURDOCK
BARVUL	0 BARBAREA VULGARIS	0 FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
DACGLO	0 DACTYLIS GLOMERATA	3 FACU	Ad P-Grass	ORCHARD GRASS
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PASSAT	O PASTINACA SATIVA	5 UPL	Ad B-Forb	WILD PARSNIP
PHAARU	O PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
RANABO	O Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIREP	0 TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER

Project/Site:	Inaugural South Suburban Airp	ort	City/County:	Will County	Sampling Date: 24-Apr-09
Applicant/Owner:	Illinois Department of Transporta	ion			State: Illinois Sampling Point: W02NW-9 SC-1
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): drainageway				Local relief (concave, convex, none: concave
Slope %: 1	Lat:	4	41.37752692	Long	-87.69935981 Datum: NAD83 Illinois East
Soil Unit Name:	Drummer silty clay loam				NWI Classification: PEM/PSS
Are climatic / hydro	ologic conditions on the site typical fo	r this time of	year?	Yes	X No
Are Vegetation	Soil or hydrology	X Sign	ificantly disturbed?	,	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Natu	rally problematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map	showing	sampling poin	t locations	, transects, important features, etc.
Hydrophytic Veg Hydric Soils Pres Wetland Hydrolo	sent? Yes	X X X	No No		Is the Sampling Area Yes X No
Remarks: Tiled drainagew	ay outlet to Black Walnut Creek ex	cavated rec	ently. Spoil bank	and fresh sp	oil present
VEGETATION	- Use scientific names of pla	nts.			
Tree Stratum 1. 2.	(Plot size:)		olute Dominant Cover Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC 3 (A)
3 4 5					Total Number of Dominant Species Across All Strata: 3 (B)
Sapling/Shrub St 1. Salix exi	gua	8	80 Y	OBL	Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
	us canadensis Ilegheniensis		20 N 10 N	FACU FACU	Prevalence Index Worksheet: Total % Cover of Multiply by: OBL species x 1 = 0 FACW species x 2 = 0
2. Ambrosi	glomerata		10 Y 25 Y 0 N	FACW FAC FACU FACU	FAC species
6.	Total (Cover: 1	15		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra					*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2. <u></u>	Total (Hydrophytic Vegetation Yes X No Present?
,	de photo numbers here or on a separa	ate sheet.)			

US Army Corps of Engineers

SOIL Sampling Point: W02NW-9 SC-1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)										
Depth Matrix Redox Features										
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-13	10YR 2/1	98	10YR 7/6	2	С	PL	silty clay loam	moist, friable		
13-20	10YR 2/1	98	10YR 7/6	1		PL	silty clay	moist, friable		
	101112/1						Siley Clay	moist, madic		
			7.5YR 4/6	1		PL				
			···					_		
*Type: C=Concentrat	tion, D=Depletion, RM	=Reduced N	Matrix, CS=Covered	or Coated S	Sand Grain	ns. **L	ocation: PL=Pore Lining, M=Ma	atrix		
Hydric Soil Indicato	ors:						Indicators for Problematic	Hydric Soils***:		
								•		
Histosol (A1) Histic Epipedon ('A2)		Sandy Gleyed Sandy Redox ()		Coast Prairie Redox (A16) Iron-Manganese Masses (
Black Histic (A3)	(AZ)		Stripped Matri				Other (Explain in Remark			
Hydrogen Sulfide			Loamy Mucky	Mineral (F1			_ ` ` '	,		
Stratified Layers			Loamy Gleyed)					
2 cm Muck (A10)) Dark Surface (A11)		Tepleted Matr Redox Dark Su							
Thick Dark Surface			Depleted Dark		7)	***	*Indicators of hydrophytic veget	ation and		
Sandy Mucky Mir			Redox Depres	sions (F8)			wetland hydrology must be pre			
5 cm Mucky Peat						1	unless disturbed or problema	atic.		
Restrictive Layer (if	r observed):									
Type:										
Depth (inches):			<u>.</u>				Hydric Soils Present? Yes X No			
Remarks:										
HYDROLOGY										
Wetland Hydrology	Indicators:									
Primary Indicators (mi	inimum of one is reaui	ired: check a	all that apply'				Secondary Indicators (minimum	m of two required)		
innary marcators (m.			<u>ан анас арр.,,,</u>				Secondary Indicators (Imminus	o. erro reganea,		
Surface Water (A			Water-Stained		9)		Surface Soil Cracks (B6)			
High Water Table Saturation (A3)	e (A2)		Aquatic Fauna True Aquatic F	` '	`		X Drainage Patterns (B10 Dry-Season Water Table	(C2)		
Water Marks (B1)		Hydrogen Sulf				Crayfish Burrows (C8)	(C2)		
Sediment Deposi	its (B2)		Oxidized Rhizo	spheres or	n Living Ro	oots (C3)	Saturation Visible on Aeri			
X Drift Deposits (B3			Presence of Re			I= (CC)	Geomorphic Position (D2))		
Algal Mat or Crus Iron Deposits (B			Recent Iron Re Thin Muck Sur		Tilled Sol	is (Cb)	FAC-Neutral Test (D5)			
	e on Aerial Imagery (E	B7)	Gauge or Well	_ ```.						
Sparsely Vegetate	ed Concave Surface (E	B8)	X Other (Explain	in Remark	s)					
Field Observations:										
Surface Water Present	t? Yes			Depth (incl	-					
Water Table Present?	Yes		No X	Depth (incl	hes):					
Saturation Present?	Yes		No X	Depth (incl	hes):		Wetland Hydrology Presen	nt? Yes X	No	
(includes capillary fring Describe Recorded Da		nitoring wel	l aprial photos pro-	ious incre	ctions) if	available				
pescribe Recorded Da	ica (su cam yauye, 1110	antoring wel	i, acriai priotos, prev	rious irispe	CGO115), II	avallable				
Remarks:										
	/i last 24 hours. Ve	eg matted i	in direction of wat	terflow						
	Precipitation w/i last 24 hours. Veg matted in direction of waterflow									

Project/Site:	Inaugural South S	Suburban Airport	City/County: Will County		Sampling Date: 24-Apr-09					
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W02NW-9U SC-2					
Investigator(s):	T. Radke; Robyn W	est		Section, Tow	nship, Range	Section 2; T33N; F	R13E			
Landform (hillside,	terrace, etc.):	terrace				Local relief	(concave, convex, no	one: concave		
Slope %: 4		Lat:	41.377	752692	Long	:	-87.69935981	Datum	n: <u>NAD83</u>	Illinois East
Soil Unit Name:	Drummer silty clay	loam					NWI Classificati	on: Upland		
Are climatic / hydro	ologic conditions on the	ne site typical for this tir	me of year?	1	Yes	X No	•			
Are Vegetation	Soil	or hydrology X	Significant	ly disturbed?	? /	Are "Normal Circums	tances" present?	Υe	esX	No
Are Vegetation Soil or hydrology I			Naturally problematic? (if needed, explain any answers in Remarks.)							
SUMMARY OF	FINDINGS - Atta	ich site map show	ing sam	oling poin	t locations	, transects, imp	ortant features,	etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	sent?	Yes X Yes X	No No No	X		Is the Sampling A within a Wetland?		/es	No	<u>x</u>
	on spoil bank north	of BWC channel at co	orner of sti	eam meand	der. Excavati	on for drain tile loc	ated ~35 ft south.			
			Absolute	Dominant	Indicator	Dominance Test V	Vorksheet:			
Tree Stratum 1.	(Plot size:)	% Cover	Species?	Status	Number of Domina That Are OBL, FAC		1	(A)	
2. 3						Total Number of Do	ominant			
4. 5						Species Across All	Strata:	3	(B)	
		Total Cover:				Percent of Domina	•			
Sapling/Shrub St 1. Lonicera)	20	Y	FACU	That Are OBL, FAC	CW, or FAC:	33%	(A/B)	
Acer neg Salix exi			<u>5</u>	<u>N</u> Y	FACW OBL	Prevalence Index Total % Cover of		ov:		
4	<i>y</i>					OBL species	x 1 =	0	_	
5. <u></u>		Total Cover:	35			FACW species FAC species	x 2 = x 3 =	0	_	
Herb Stratum	(Plot size:					FACU species	x 4 =	0	_	
Bromus Pastinac			90 5		UPL UPL	UPL species Column Totals	x 5 =	0 	(B)	
3. Arctium 4.	minus		5	N	UPL	Preval	ence Index = B/A =	#DIV/0!	_ ` ′	
5						Hudrophytic Voca	totion Indicators		_ 	
6. <u></u> 7. <u></u>							Test is >50%			
8. <u></u> 9							Index is *3.0* cal Adaptations* (Pr	ovide supporting	i	
10						data in rem	arks or on a separate	e sheet)		
Woody Vino Stro	tum (Diet eizer	Total Cover:	100				c Hydrophytic Vegeta c soil and wetland hy		procent	
Woody Vine Stra	tum (Plot size:)				indicators of riyun	c soil and welland hy	drology must be	present.	
2. <u></u>		Total Cover:				Hydrophytic Vegetation Present?	Y	/es	_ No _	<u> x</u>
Remarks: (Include	de photo numbers her	e or on a separate shee	et.)							
Dominated by B	romus inermus. Sa	lix along BWC bank a	nd drainag	e channel						
US Army Corps of	of Engineers						Midwest Reg	gion - Interim Ver	sion	

SOIL Sampling Point: W02NW-9U SC-2

Profile Description	: (Describe to the o	depth needed	l to document t	he indicate	or or con	firm the	absence of indicators.)				
Depth	Matrix		R	edox Featur	es						
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks			
0-21	10YR 2/1		10YR 7/6	2	С	CS	silty clay Loam	- intercongreed with miner ar	mts of sand		
			10YR 4/3		RM	М		 interspersed with minor ar and gravel. 	nts or sand		
			10YR 4/6		С	CS	•				
							-	-			
	-		10YR 7/4		C	CS	-				
							-				
							n	- ·			
*Type: C=Concentra	ation, D=Depletion, RM	1=Reduced Ma	atrix, CS=Covered	or Coated	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=Ma	ntrix			
Hydric Soil Indicat	ors:						Indicators for Problematic I	Hydric Soils***:			
Histosol (A1) Histic Epipedon	(42)	_	Sandy Gleyed Sandy Redox)		Coast Prairie Redox (A16) Iron-Manganese Masses (I				
Black Histic (A3		-	Stripped Mati				Other (Explain in Remarks				
Hydrogen Sulfic	,	_	Loamy Mucky	Mineral (F:	1)			•			
Stratified Layers		_	Loamy Gleye	d Matrix (F2)						
2 cm Muck (A10)) Dark Surface (A11)	,	Depleted Mat Redox Dark S	` ,							
Thick Dark Surf	` ,		Depleted Dar		7)	**:	*Indicators of hydrophytic vegeta	ation and			
Sandy Mucky M		_	Redox Depre		,,		*Indicators of hydrophytic vegetation and wetland hydrology must be present,				
5 cm Mucky Pea	at or Peat (S3)	_	-	, ,			unless disturbed or problema	tic.			
Restrictive Layer (if observed):										
Typo											
Type: Depth (inches):							Hydric Soils Present?	Yes X	No		
Remarks:		<u></u>									
HYDROLOGY											
Wetland Hydrolog	y Indicators:										
Primary Indicators (n	ninimum of one is requ	uired; check al	that apply)				Secondary Indicators (minimum	n of two required)			
Surface Water (_	Water-Staine		9)		Surface Soil Cracks (B6)				
High Water Tab	` '	_	Aquatic Faun	` '			Drainage Patterns (B10	(62)			
Saturation (A3) Water Marks (B		_	True Aquatic Hydrogen Su				Dry-Season Water Table (Crayfish Burrows (C8)	(C2)			
Sediment Depos		_	Oxidized Rhiz	ospheres or	n Livina R	oots (C3)					
Drift Deposits (I	` '	_	Presence of F			(,	Geomorphic Position (D2)				
Algal Mat or Cru		_	Recent Iron F		Tilled So	ils (C6)	FAC-Neutral Test (D5)				
Iron Deposits ((DZ)	Thin Muck Su								
	ole on Aerial Imagery (ated Concave Surface (Gauge or We Other (Explai		(s)						
Field Observations	<u> </u>		Outer (Explain	iii iii iteinan			T				
Surface Water Preser		N	lo X	Depth (inc	hes).						
Water Table Present	_		lo X	Depth (inc							
	_						Watland Hydrolamy Breasuring	Mar.	No V		
Saturation Present? (includes capillary fri	Yes	N	lo <u>X</u>	Depth (inc	nes):		Wetland Hydrology Present	t? Yes	No X		
	ata (stream gauge, mo	onitoring well,	aerial photos, pre	evious inspe	ctions), if	available					
Remarks:											

Site: Inaugural South Suburban Airport

Locale: W02SE4
Date: October 6, 2008 30 minutes
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE4.inv

6 NA 13 T 1.7 NA 0.8 W 4.1 NA 2.8 W -1.7 NA -1.0 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	6 1 1 2 0 2 0 0 0 0 0 0 0 0	46.2% 7.7% 7.7% 15.4% 0.0% 15.4% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Shrub W-Vin H-Vin P-For B-For A-For	0 1 e 1 e 0 b 1 b 0 b 0 b 0 ss 3 ss 1 ge 0	
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRALA	O AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA			2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLCUS	0 POLYGONUM CUSPIDATU	M		3	FACU	Ad Shrub	JAPANESE KNOTWEED
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA			0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGIG	4 Solidago gigantea			-3	FACW	Nt P-Forb	LATE GOLDENROD
VITRIP	2 Vitis riparia			-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? Community ID: X Yes Nο PEM Is The Site Significantly Disturbed (Atypical Situation)? W02SE-4 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status **Stratum** % Cover Species Name Ind. Status <u>Stratum</u> % Cover FACW+ **HERB** Phalaris arundinacea 100 2. 8. 3. --9. 4. __ ----10. --__ --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. this layer consists of sediment deposits, has oxidized rhizospheres 0 10YR NA silt loam, moist, friable C 4/2 NA NA NA 10YR 2.5/1 NA NA silty clay loam, moist, firm Ab NA NA 7 7.5YR 13 Bt1 10YR 4/1 4/4 common distinct silty clay, moist, very firm 13 17 Bt2 10YR 10YR 3/1 distinct silty clay, moist, very firm 4/4 common 20 Bt3 2.5Y 10YR 4/1 4/6 many prominent clay, moist, very firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix X (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. Sediment deposition above native Ashkum. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** Illinois Investigator #1: #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-4 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Daucus carota UPL **HERB** 25 FACU+ HERB 10 Setaria faberi Phalaris arundinacea FACW+ **HERB** 25 8. 2. FACU+ **HERB** 3. Poa compressa 25 9. Melilotus alba FACU **HERB** 5 10. --__ --Solidago altissima **FACU HERB** 5 5. 11. Helianthus grosseserratus FACW-HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Mottle Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR ilt loam, moist, friable 12 Α 2/1 NA NA NA NA 12 17 Bt1 10YR 10YR 4/4 distinct silty clay loam, moist, firm 3/1 common 17 21 Bt2 10YR 4/1 10YR 4/4 common distinct silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hvdric Soils Present? X Yes No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No X No Yes Yes Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so the hydric soil indicators

found at this location are likely relict and indicative of pre-tile conditions since no wetland hydrology is evident and hydrophytic vegetation is not dominant

SSA Inaugural Delineation Site:

Locale: W02SE5
Date: October 6, 2008 1 hours
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE5.inv

26 NA 30 T 2.5 NA 2.1 W 12.6 NA 11.7 W -2.5 NA -2.3 W	TIC QUALITY DATA ATIVE SPECIES Total Species ATIVE MEAN C MAD ADVANCE MINISTRATIVE FQI MAD ADVANCE MINISTRATIVE MEAN W MAD ADVANCE MEAN W MAD ADVANCE MEAN W MAD ADVANCE MEAN M MAD ADVANCE MET MEAN M MAD ADVANCE MET MEAN M MAD ADVANCE MET	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	26 5 3 1 0 11 0 2 1 1 2 0 0	86.7% 16.7% 10.0% 3.3% 0.0% 36.7% 0.0% 6.7% 3.3% 6.7% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For P-Gra A-Gra A-Sed A-Sed	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 6.7% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNO	MY COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTLAT	4 Aster lateriflorus			-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedg	e BROWN FOX SEDGE
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPSTR	1 Cyperus strigosus			-3	FACW	Nt P-Sedg	e LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusga	lli		-3	FACW	Nt A-Gras	s BARNYARD GRASS
EPICOL	3 Epilobium coloratum	n		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
FRAPES	1 Fraxinus pennsylva	nica subintege	errima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5 Iris virginica shr	evei		-5	OBL	Nt P-Forb	BLUE FLAG
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNEFF	7 Juncus effusus			-5	OBL	Nt P-Forb	COMMON RUSH
JUNTOR	4 Juncus torreyi			-3	FACW	Nt P-Forb	TORREY'S RUSH
PANVIR	5 Panicum virgatum			-1	FAC+	Nt P-Gras	s SWITCH GRASS
PHAARU	O PHALARIS ARUNDINAC	EΑ		-4	FACW+	Ad P-Gras	s REED CANARY GRASS
PLAMAJ	O PLANTAGO MAJOR			-1	FAC+	Ad P-Forb	COMMON PLANTAIN
POACOM	0 POA COMPRESSA			2	FACU+	Ad P-Gras	s CANADA BLUE GRASS
POLAMS	4 Polygonum amphibium	m stipulaceum		-5	OBL	Nt P-Forb	WATER KNOTWEED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris	lanceolata		3	[FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY

RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/06/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? Community ID: X Yes PSS Is The Site Significantly Disturbed (Atypical Situation)? X No W02SE-5 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: -VEGETATION Dominant Species (50/20 Rule) Species Name Species Name Ind.Status Stratum % Cover Ind. Status <u>Stratum</u> % Cover Salix exigua OBL **SHRUB** Hordeum jubatum FAC+ **HERB** 20 Bidens frondosa **FACW** HERB 15 8. Poa compressa FACU+ **HERB** 40 2. HERB 3. Cyperus sp. unknown 5 9. Geum canadense FAC HERB 5 10. --Aster lateriflorus FACW-**HERB** 5 5. 11. FACW+ Verbena hastata HERB 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. Species with an NI or unknown indicator were not used in the percent dominance calculation **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics oxidized rhizospheres 0 10YR NA mucky silt loam, moist, friable 14.5 Α 2/1 14.5 20 ВТ 2.5Y 4/1 10YR 4/4 many prominent silty clay, moist friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο Yes X Wetland Hydrology Present? Is This Sampling Point Within A Wetland? No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/06/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** Illinois Investigator #1: #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-5 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Area is part of tiled, excavated drainagway; disturbed hydrology and soil profile **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Solidago altissima FACU HERB FAC+ HERB Plantago major Taraxacum officinale FACU HERB 5 8. Trifolium hybridum FAC-**HERB** 10 Poa compressa FACU+ **HERB** 3. 40 9. Festuca pratensis FACU-**HERB** 5 10. --Trifolium pratense FACU+ HERB 5 5. 11. Agropyron repens **FACU HERB** 25 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA mucky silt loam, moist, friable Α 2/1 NA 9.5 15 ВТ 10YR 4/1 10YR 4/6 distinct silty clay loam, moist, friable common 15 2.5Y 21 ΒG 4.5/1 10YR 4/4 common prominent silty clay, moist, very firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Relic soils evidence of altered hydrology. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Yes No Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes No Yes Remarks: This plot is not located within a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will **Ann Amelse** Illinois Investigator #1: #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-6 Yes X No Station ID: Is The Area A Potential Problem Area? Plot ID: X No NΑ Yes (If yes, define below.) Remarks: Hydrophytic vegetation not dominant and hydrology not present, so no soil core taken. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Phalaris arundinacea FACW+ HERB 25 Solidago altissima FACU HERB 5 Arctium minus UPL **HERB** 30 8. Bromus inermis UPL HERB 5 2. Rubus occidentalis UPL VINE 3. 30 9. Lonicera tatarica FACU* SHRUB 20 Ambrosia trifida FAC+ HERB 5 10. Salix nigra OBL TREE 15 5. 11. FACU-Prunus nigra TREE 20 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core taken* Taxonomy (Subgroup): Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are mapped. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? No soil core taken* Yes No Yes Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? X No Yes Yes Remarks: This plot is not located in a wetland. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken.

Site: Inaugural South Suburban Airport

Locale: W02SE7
Date: May 4, 2009 15 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE7.inv

FLORISTIC QUALITY DATA	Native	1	25.0%	Adventive	3	75.0%
1 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
4 Total Species	Shrub	1	25.0%	Shrub	0	0.0%
6.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
6.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	1	25.0%
3.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-3.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.3 W/Adventives	P-Grass	0	0.0%	P-Grass	2	50.0%
AVG: Fac. Wetland	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
TAROFF	O TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION

Project/Site:	Inaugural South Suburban Airport	City/County: Will Cou	Anty Sampling Date: 5/4/2009					
Applicant/Owner:	Illinois Department of Transportation		State: Illinois Sampling Point: W02SE7 SC-1					
Investigator(s):	T. Radke; Robyn West	Section, Township, R	ange: Section 2; T33N; R13E					
Landform (hillside,	terrace, etc.): depression on terrace	9	Local relief (concave, convex, none: concave					
Slope %: 1	Lat:	41.37206046	Long: -87.69574245 Datum: NAD83 Illinois East					
Soil Unit Name:	Ashkum silty clay loam		NWI Classification: Not mapped; PEM					
Are climatic / hydro	ologic conditions on the site typical for this tin	ne of year?	Yes <u>X</u> No					
Are Vegetation	Soil or hydrologyX	Significantly disturbed?	Are "Normal Circumstances" present? Yes X No					
Are Vegetation	Soil or hydrology	Naturally problematic?	(if needed, explain any answers in Remarks.)					
SUMMARY OF	SUMMARY OF FINDINGS - Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X		Is the Sampling Area Yes X No					
Remarks: Drainage tile present in drainageway. Area is a depression on terrace; field tile present.								
VEGETATION -	Use scientific names of plants.							
Tree Stratum 1	(Plot size:)	Absolute Dominant Indicat % Cover Species? Status						
2 3 4			Total Number of Dominant Species Across All Strata: 1 (B)					
5								
Sapling/Shrub Str	Total Cover: ratum (Plot size:)		Percent of Dominant Species That Are OBL, FACW, or FAC:					
2. 3. 			Prevalence Index Worksheet: Total % Cover of Multiply by:					
4. <u></u> 5			OBL species					
J	Total Cover:		FAC species					
Herb Stratum	(Plot size:) arundinacea	100 Y FACV	FACU species					
4. <u></u> 5			Prevalence Index = B/A = #DIV/0!					
6 7 8 9 10	Total Cover:	100	Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)					
Woody Vine Stra			*Indicators of hydric soil and wetland hydrology must be present.					
1. <u></u> 2. <u></u>	Total Cover:		Hydrophytic Vegetation Present? Yes X No					
	de photo numbers here or on a separate she ominated area in meadow dominated by		'					

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02SE7 SC-1

Profile Descriptio									
Depth	Matrix			edox Featur					
Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-12	10YR 2/1	100					Silty clay loam	Moist; friable	
12-14	2.5N	100					Silty clay loam	Mucky; moist, friable	
14-20	10YR 2/1	100					Silty clay loam	Mucky; moist, friable	
				-		-			
Type: C=Concent	ration, D=Depletion, R	M=Reduced	Matrix, CS=Covered	d or Coated	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=	=Matrix	
lydric Soil Indica	itors:						Indicators for Problemat	tic Hydric Soils***:	
•								•	
Histosol (A1)	(10)		Sandy Gleye)		Coast Prairie Redox (A		
Histic Epipedor			Sandy Redox				Iron-Manganese Masse		
Black Histic (A.	,		Stripped Mat	. ,	1)		Other (Explain in Rema	arks)	
Hydrogen Sulfi Stratified Layer			Loamy Muck Loamy Gleye						
2 cm Muck (A1			Depleted Ma)				
	w Dark Surface (A11)		Redox Dark S						
Thick Dark Sur			Depleted Dar		7)	***	Indicators of hydrophytic veg	getation and	
Sandy Mucky N			Redox Depre		.,		wetland hydrology must be		
	eat or Peat (S3)			()			unless disturbed or proble		
Restrictive Layer	(if observed):						•		
	,								
Type:			_						
Depth (inches): Remarks: Buried mucky	/ layers. Suspect til	e in drainag	– Jewaypossible e	excavation	spoil on	top of or	Hydric Soils Present?	Yes X	No
Remarks:		e in drainag	– Jewaypossible e	excavation	spoil on	top of or	<u> </u>	Yes X	No
Remarks: Buried mucky HYDROLOGY	r layers. Suspect til	e in drainag	– Jewaypossible e	excavation	spoil on	top of or	<u> </u>	Yes X	No
Remarks: Buried mucky HYDROLOGY Wetland Hydrolog	y layers. Suspect til			excavation	spoil on	top of or	iginal surface layei		No
Remarks: Buried mucky HYDROLOGY Wetland Hydrolog	r layers. Suspect til			excavation	spoil on	top of or	<u> </u>		No
Remarks: Buried mucky HYDROLOGY Wetland Hydrolog	y layers. Suspect til gy Indicators: minimum of one is rec					top of or	iginal surface layei	num of two required)	No
Remarks: Buried mucky HYDROLOGY Wetland Hydrolog Primary Indicators (y layers. Suspect til		all that apply,	d Leaves (B		top of or	iginal surface layer Secondary Indicators (minin	num of two required)	No
Remarks: Buried mucky HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water	gy Indicators: minimum of one is rec (A1) ble (A2)		all that apply)	ed Leaves (B la (B13)	9)	top of or	iginal surface layer Secondary Indicators (minin Surface Soil Cracks (Be	num of two required)	No
HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I	gy Indicators: minimum of one is rec (A1) ble (A2)) B1)		all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su	ed Leaves (B la (B13) Plants (B14 Ifide Odor (i	9)		Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8)	num of two required) 5) 0 le (C2)	No
HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo	gy Indicators: minimum of one is rec (A1) ble (A2)) B1) osits (B2)		all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	ed Leaves (B la (B13) Plants (B14 Ifide Odor (I	9)) C1) n Living Re		Secondary Indicators (minin Surface Soil Cracks (Bid Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo	y layers. Suspect til		all that apply' Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz	ed Leaves (B la (B13) Plants (B14 lfide Odor (I cospheres of Reduced Iro	9)) C1) n Living Ro n (C4)	pots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A X Geomorphic Position (I	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
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HYDROLOGY Wetland Hydrolog Trimary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I) Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (gy Indicators: minimum of one is rec (A1) ble (A2)) BB1) osits (B2) (B3) rust (B4) (B5)	quired; check	all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of Recent Iron Thin Muck St	ed Leaves (B la (B13) Plants (B14 Ifide Odor (I gospheres of Reduced Iro Reduction in urface (C7)	9)) C1) n Living Ro n (C4)	pots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A X Geomorphic Position (I	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Depo Drift Deposits (Algal Mat or Ci Iron Deposits (Inundation Vis	gy Indicators: (A1) (B1) (B3) (B3) (B5) (B5) (B6) (B1) (B5) (B5) (B5) (B5) (B6) (B6)	quired; check	all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of I Recent Iron I Thin Muck St Gauge or We	ed Leaves (B la (B13) Plants (B14 Ifide Odor (Gospheres of Reduced Iro Reduction in Irface (C7) ell Data (D9)	9) C1) n Living Rn n (C4) Tilled Soi	pots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A X Geomorphic Position (I	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
HYDROLOGY Wetland Hydrolog Trimary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I) Sediment Depo Drift Deposits (Algal Mat or Cr Iron Deposits (Inundation Vis Sparsely Veget	gy Indicators: minimum of one is rec (A1) ble (A2)) B1) soits (B2) (B3) rust (B4) (B5) ible on Aerial Imagery ated Concave Surface	quired; check	all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of Recent Iron Thin Muck St	ed Leaves (B la (B13) Plants (B14 Ifide Odor (Gospheres of Reduced Iro Reduction in Irface (C7) ell Data (D9)	9) C1) n Living Rn n (C4) Tilled Soi	pots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A X Geomorphic Position (I	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
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HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deposits (Algal Mat or Cr Iron Deposits (Inundation Vis Sparsely Veget Field Observation	r layers. Suspect til gy Indicators: minimum of one is rec (A1) ble (A2)) B1) bosits (B2) (B3) rust (B4) (B5) ible on Aerial Imagery tated Concave Surface is: ent? Yes t? Yes	quired; check (B7) (B8)	all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla	ed Leaves (B la (B13) Plants (B14 Ifide Odor (I zospheres oi Reduced Iro Reduction in urface (C7) Ell Data (D9) in in Remark	9) C1) In Living Ron (C4) Tilled Soi	pots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A X Geomorphic Position (I	num of two required) 5) 0 0le (C2) erial Imagery (C9)	No
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Permarks: Buried mucky HYDROLOGY Wetland Hydrolog Primary Indicators (Surface Water High Water Ta Saturation (A3 Water Marks (I Sediment Deposits (Inundation Vis Sparsely Veget Field Observation Surface Water Prese Vater Table Present Saturation Present? Includes capillary fr Describe Recorded I Tiled drainage	gy Indicators: minimum of one is red (A1) ble (A2)) B1) soits (B2) (B3) rust (B4) (B4) (B5) ible on Aerial Imagery tated Concave Surface (S1) ent? Yes Yes Yes ringe) Data (stream gauge, r	quired; check (B7) (B8)	all that apply) Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhi: Presence of I Recent Iron I Thin Muck St Gauge or We Other (Expla No X No X No X	ed Leaves (B la (B13) Plants (B14 Ifide Odor (I cospheres oi Reduction in Reduction in Irface (C7) Ill Data (D9) in in Remark Depth (inc	9)) C1) n Living R n (C4) Tilled Soi (ss) hes): hes):	oots (C3)	Secondary Indicators (minin Surface Soil Cracks (B6 X Drainage Patterns (B10 Dry-Season Water Tab Crayfish Burrows (CS) Saturation Visible on A X Geomorphic Position (I X FAC-Neutral Test (DS)	num of two required) 6) 0 let (C2) herial Imagery (C9) D2)	

Project/Site:	Inaugural South S	Suburban Airport		City/County:	Will County	Sampling Date: <u>5/4/2009</u>
Applicant/Owner:	Illinois Department	t of Transportation				State: Illinois Sampling Point: W02SE7U SC-2
Investigator(s):	T. Radke; Robyn V	Vest	;	Section, Tow	nship, Range	: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.):	terrace				Local relief (concave, convex, none: concave
Slope %:		Lat:	41.372060)46	Long	:
Soil Unit Name:						NWI Classification: PEM
Are climatic / hydro	ologic conditions on th	ne site typical for this tim	e of year?		Yes	XNo
Are Vegetation	Soil	or hydrology X	Significant	y disturbed?	,	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Atta	ch site map showi	ng sampl	ing point	locations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres	ent?	Yes X	No No			Is the Sampling Area Yes NoX
Wetland Hydrolog	gy Present?	Yes	No	X		
	ainageway					
VEGETATION -	- Use scientific n	ames of plants.				
				Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum 1	(Plot size:)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC(A)
2. <u></u> 3						Total Number of Dominant
4						Species Across All Strata: 2 (B)
5						
		Total Cover:				Percent of Dominant Species
Sapling/Shrub Str 1.	ratum (Plot size:)				That Are OBL, FACW, or FAC:(A/B)
2						Prevalence Index Worksheet:
3. <u></u> 4. 						Total % Cover of OBL species 0 Multiply by: OBL species 0 x 1 = 0
5				 -		FACW species 1 x2 = 2
		Total Cover:				FAC species <u>1</u> x 3 = <u>3</u>
Herb Stratum	(Plot size:)				FACU species 2 x 4 = 8
1. Bromus			50	<u>Y</u>	UPL	UPL species <u>2</u> x 5 = <u>10</u>
Poa prat Cornus r	tensis racemosa		<u>50</u>	<u> </u>	FACW	Column Totals (A) 23 (B)
4. Cirsium a			1	 ·	FACU	Prevalence Index = B/A = 3.8
5. Daucus			1		UPL	
6. <u>Taraxacı</u> 7	um officinale		1		FACU	Hydrophytic Vegetation Indicators: N Dominance Test is >50%
8						N Prevalence Index is *3.0*
9						Morphological Adaptations* (Provide supporting
10. <u></u>						data in remarks or on a separate sheet)
		Total Cover:	104			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Strat	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2						Hydrophytic
		Total Cover:				Vegetation Yes No X Present?
Remarks: (Includ	de nhoto numbere ho	re or on a separate shee	et)			
Tromains. (Illiciuo	20 prioto fluiribeis fle	io oi oii a sepaiate silet	··· <i>)</i>			

SOIL Sampling Point: W02SE7U SC-2

Profile Description	: (Describe to the	depth need	ded to document t	he indicate	or or con	firm the	absence of indicators.)			
Depth	Matrix		Re	edox Featur	es					
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks		
0-12	10YR 3/1	100					Silty loam	Moist; friable		
12-15	10YR 3/1	97	10YR 5/6	3	С	М	Silty loam	Moist		
15-20	10YR 5/1	83	10YR 5/6	15		М	Silty clay loam	Moist		
			10YR 4/1	2		М				
			10111 1/1				•			
			. ———							
*Type: C=Concentra	tion, D=Depletion, R	M=Reduced	Matrix, CS=Covered	or Coated	Sand Grai	ns. **L	_ocation: PL=Pore Lining, M=N			
Hydric Soil Indicat	ors:						Indicators for Problematic	: Hydric Soils***:		
Histosol (A1)			Sandy Gleyed	Matrix (S4)		Coast Prairie Redox (A16	5)		
Histic Epipedon	(A2)		Sandy Redox		,		Iron-Manganese Masses			
Black Histic (A3)			Stripped Matr	. ,			Other (Explain in Remar	ks)		
Hydrogen Sulfid Stratified Layers			Loamy Mucky Loamy Gleyed							
2 cm Muck (A10			Depleted Mat		-)					
	Dark Surface (A11)		Redox Dark S	` ,						
X Thick Dark Surfa			Depleted Darl	•	- 7)	**:	*Indicators of hydrophytic vege			
Sandy Mucky Mi 5 cm Mucky Pea	` '		Redox Depres	ssions (F8)			wetland hydrology must be p unless disturbed or problem	•		
Restrictive Layer (. ,						unless disturbed or problem	iauc.		
Restrictive Layer (ii observeu).									
Type:			_							
Depth (inches):			_				Hydric Soils Present?	Yes X	No	
HYDROLOGY	. Indicators									
Wetland Hydrology										
Primary Indicators (n	ninimum of one is rec	juired; check	all that apply,				Secondary Indicators (minimu	um of two required)		
Surface Water (A1)		Water-Stained	d Leaves (B	9)		Surface Soil Cracks (B6)			
High Water Tab	le (A2)		Aquatic Fauna				Drainage Patterns (B10			
Saturation (A3) Water Marks (B	1)		True Aquatic Hydrogen Sul				Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Sediment Depos	,		Oxidized Rhiz			oots (C3)	Saturation Visible on Ae	rial Imagery (C9)		
Drift Deposits (E	, ,		Presence of R		-	0013 (00)	Geomorphic Position (D2	3 , \ ,		
Algal Mat or Cru			Recent Iron R		Tilled Soi	ils (C6)	FAC-Neutral Test (D5)			
Iron Deposits (E		(07)	Thin Muck Su							
	ole on Aerial Imagery oted Concave Surface		Gauge or Wel Other (Explain							
Field Observations		(50)	Other (Explain	III III IXCIIIdii			T			
Surface Water Preser			No X	Depth (inc	hes).					
Water Table Present?				Depth (inc						
Saturation Present?				Depth (inc			Wetland Hydrology Prese	ent? Yes	No X	
(includes capillary fri			NO X	Deptii (iiie			Wedana nyarology r rese		NO X	
Describe Recorded D	ata (stream gauge, n	nonitoring we	ell, aerial photos, pre	evious inspe	ections), if	available				
Remarks:										

Site: Inaugural South Suburban Airport

Locale: W02SE8
Date: October 6, 2008 30 minutes
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE8.inv

15 NA 18 T 2.4 NA 2.0 W 9.3 NA 8.5 W -2.7 NA -2.3 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	15 2 1 0 0 4 0 4 1 1 1 1	83.3% 11.1% 5.6% 0.0% 0.0% 22.2% 0.0% 22.2% 5.6% 5.6% 5.6%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed A-Sed	0 e 0 0 b 1 b 0 0 b 1 ss 0 ss 1 ge 0	5.6% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CYPSTR	1 Cyperus strigosus			-3	FACW	Nt P-Sedge	LONG-SCALED NUT SEDGE
ECHCRU	0 Echinochloa crusgalli			-3	FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3 Eleocharis obtusa			-5	OBL	Nt A-Sedge	BLUNT SPIKE RUSH
PANVIR	5 Panicum virgatum			-1	FAC+	Nt P-Grass	SWITCH GRASS
PENSED	5 Penthorum sedoides			-5	OBL	Nt P-Forb	DITCH STONECROP
POLHYR	2 Polygonum hydropipe	r		-3	FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARI	A		1	[FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris l	anceolata		3	[FACU]	Nt P-Forb	SELF HEAL
RUMCRI	O RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra			-5	OBL	Nt Tree	BLACK WILLOW
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4 Solidago gigantea			-3	FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/06/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: PSS Is The Site Significantly Disturbed (Atypical Situation)? X No W02SE-8 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: -VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Panicum virgatum FAC+ **HERB** 25 unknown HERB Carex sp. Salix nigra OBL **TREE** 10 8. Echinochloa crusgalli **FACW** HERB 3. 10 9. Polygonum hydropiper OBL HERB 15 10. --__ --Eleocharis obtusa OBL **HERB** 30 5. 11. **FACW** Polygonum persicaria HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits X Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **0** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Abundance/Contrast Depth Depth Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics 0 10YR silty clay loam, saturated, friable 6 Α 4/1.5 5YR common prominent 10YR 5/8 prominen 6 20 ВТ 2.5Y 5/1.5 10YR common prominent clay, moist, very firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο Yes X Wetland Hydrology Present? Is This Sampling Point Within A Wetland? No Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse Illinois #2: Robyn West State: Do Normal Circumstances Exist On The Site? X Yes Nο Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-8 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Disturbed soil profile from fill/excavation **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Plantago major FAC+ HERB Trifolium hybridum FAC-**HERB** 10 8. Poa compressa FACU+ **HERB** 3. 65 9. Taraxacum officinale FACU **HERB** 5 10. --__ --5. Digitaria sanguinalis **FACU HERB** 15 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Markham silt loam, 4 to 6 percent slopes, erodec Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA silt loam, dry, friable Α 2/1 NA NA C 10YR 4/2.5 10YR 4/6 distinct gravelly clay loam, dry, friable common oxidized rhizospheres 5 10 ΑB 10YR 3.5/2 NA NΑ NΑ ilty clay loam, moist, friable 10YR 4/4 many distinct 10 17 B1 10YR 4/2.5 10YR distinct 3/1 sandy clay, moist, very firm common 20 10YR 10YR many distinct clay, moist, very firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral X (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Redox in fill material meets (F8), but fill not indicative of native profile and current conditions. No wet vegetation and no hydrology so any hydric indicators are relic or non-native WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? No Yes Yes X X Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes No Yes X No Remarks: This plot is not located in a wetland.

Site: Inaugural South Suburban Airport

Locale: W02SE9
Date: October 6, 2008 30 minutes
By: AECOM: A. Amelse; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SE9.inv

	IC QUALITY DATA	Native	9	75.0%		tive 3	25.0%
	TIVE SPECIES	Tree	2 1	16.7%	Tree		0.0%
	otal Species	Shrub		8.3% 0.0%	Shrub	-	0.0%
	TIVE MEAN C /Adventives	W-Vine H-Vine	0	0.0%	W-Vin	e 0 e 0	0.0%
		P-Forb	4	33.3%		b 1	
	_		0	0.0%	B-For		0.0%
	TIVE MEAN W	B-Forb A-Forb	2	16.7%	A-For		0.0%
	/Adventives	P-Grass	0		P-Gra		
	c. Wetland	A-Grass	0	0.0%			0.0%
AVO. I a	e. Wetland	P-Sedge	0		P-Sed		
		A-Sedge	0	0.0%	A-Sed		0.0%
		Cryptogam	0	0.0%	и вса	ge 0	0.00
		or proogam	Ü	0.00			
ACRONYM	C SCIENTIFIC NAME			7	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum			-;	3 FACW	Nt Tree	SILVER MAPLE
ASTSIS	3 Aster simplex			-!	5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata			-!	OBL OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa			-:	B FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORRAC	1 Cornus racemosa			-2	2 FACW-	Nt Shrub	GRAY DOGWOOD
GEUCAN	1 Geum canadense			() FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grossese	erratus		-:	2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	O PHALARIS ARUNDINACE	LA .			1 FACW+	Ad P-Grass	REED CANARY GRASS
POACOM	0 POA COMPRESSA			:	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
RUMCRI	O RUMEX CRISPUS			-:	FAC+	Ad P-Forb	CURLY DOCK
SALNIG	4 Salix nigra			-!	5 OBL	Nt Tree	BLACK WILLOW
TYPLAT	1 Typha latifolia			-!	5 OBL	Nt P-Forb	BROAD-LEAVED CATTAIL

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/06/08 Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: PSS Is The Site Significantly Disturbed (Atypical Situation)? X No W02SE-9 Yes Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: --VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Typha angustifolia OBL **HERB** 80 8. 3. Salix nigra OBL TREE 10 9. Salix sp. NI **SHRUB** 5 10. --__ --5. Acer saccharinum **FACW** TREE 5 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Species with an NI or unknown indicator were not used in the percent dominance calculation **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics oxidized rhizospheres silt loam, dry, friable 0 10YR NA Α 2/1 NA oxidized rhizospheres 12 BT1 10YR 3/1 5YR 3/4 common distinct silty clay loam, moist, friable 12 mucky silty clay, moist, very firm 21 BT2 Ν 2.5/0 2.5Y 3/6 common distinct Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? Nο Yes X Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/06/08 **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-9 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Plot is in upland next to excavated pond **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Poa compressa FACU+ **HERB** Taraxacum officinale FACU HERB 10 8. Trifolium pratense 3. FACU+ HERB 5 9. Trifolium hybridum FAC-**HERB** 10 10. ----5. Sonchus arvensis FAC-**HERB** 10 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 0 10YR NA ilt loam, dry, firm Α 2/1 NA 2.5Y 4.5/3 10YR 4/6 few distinct silty clay loam, dry, firm 11 11 21 ΑB 10YR 3/1 10YR 4/4 common distinct silt loam, moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Disturbed soil profile. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? No Yes Yes X Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes No Yes Remarks: This plot is not located in a wetland.

Site: Inaugural South Suburban Airport

Locale: W02SE10

Locale: W02SE10
Date: October 6, 2008 30 minutes
By: AECOM: A. Amelse; R.West
File: c:\FQA\studies\SSA\Wetlands2008\final033110\W02SE10.inv

13 NA 18 T 2.2 NA 1.6 W 8.0 NA 6.8 W -1.5 NA -0.4 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	13 1 3 2 0 4 0 2 1 0 0 0	72.2% 5.6% 16.7% 11.1% 0.0% 22.2% 0.0% 11.1% 5.6% 0.0% 0.0% 0.0%	Tree Shrub W-Vine H-Vine P-Forl B-Forl A-Forl P-Gra: A-Gra: P-Sede	1 0 0 0 0 0 0 0 0 1 0 1 0 1 0 5 5 1 5 5 0	27.8% 5.6% 5.6% 0.0% 0.0% 5.6% 5.6% 5.6% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grossese	rratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LAPECH	O LAPPULA ECHINATA			5	UPL	Ad A-Forb	BEGGAR'S LICE
LONMUE	0 LONICERA X MUENDENI	ENSIS		5	UPL	Ad Shrub	COMMON FLY HONEYSUCKLE
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila			-3	FACW	Nt A-Forb	CLEARWEED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis			5	UPL	Nt Shrub	BLACK RASPBERRY
SAMCAN	1 Sambucus canadensis			-2	FACW-	Nt Shrub	ELDERBERRY
SOLGIG	4 Solidago gigantea			-3	FACW	Nt P-Forb	LATE GOLDENROD
VITRIP	2 Vitis riparia			-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Community ID: **Wetland Complex** Do Normal Circumstances Exist On The Site? X Yes Is The Site Significantly Disturbed (Atypical Situation)? W02SE-10 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Low area in ag field VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Pilea pumila **FACW** HERB Morus alba TREE 15 FAC Cornus foemina FACW-**SHRUB** 30 8. Elymus virainicus FACW-**HERB** 10 2. Phalaris arundinacea HERB 3. FACW+ 10 9. Rubus sp. unknown **SHRUB** 10 10. --Helianthus grosseserratus FACW-HERB 10 5. 11. FACU* **SHRUB** Lonicera tatarica 15 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA mucky silt loam, moist, friable 14 Α 2/1 NA 14 18 Bt1 10YR 2/1 10YR 4/4 few distinct silty clay loam, moist, friable 18 2.5Y 4.5/3 20 Bt2 10YR 4/6 many distinct clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes X Yes No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Date: 10/06/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West Illinois State: Do Normal Circumstances Exist On The Site? X Yes Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-10 Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Fragaria virginiana FAC-**HERB** Daucus carota UPL HERB Setaria faberi FACU+ HERB 5 8. Phleum pratense **FACU HERB** 20 Solidago altissima **HERB** 3. **FACU** 20 9. Helianthus grosseserratus FACW-**HERB** 5 Panicum virgatum FAC+ HERB 10. 1 Poa compressa FACU+ **HERB** 11. 5. 5 Aster lateriflorus FACW-HERB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: **NA** (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, sev. eroded Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Texture, moisture, consistency, organic material, Bottom Matrix Color Mottle Colors Mottle Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA silt loam, moist, friable 9 Α 3/2 NA NA 9 Bt1 10YR 4/2.5 7.5YR common prominent clay loam, moist, firm 14 10Y 5.5/1 common prominent 14 2.5Y 21 Btg 4.5/1 10YR many prominent clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes **X** No Hydric Soils Present? **X** No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No X No Yes Yes Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 05/04/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: T. Radke #2: **R. West** Illinois State: Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? W02SE-11 X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: NΑ Yes (If yes, define below.) Remarks: Tiled grassed waterway in upland soil unit. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Species Name Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Bromus inermis UPL HERB Festuca elation UPL **HERB** 8. 2. 3. 9. 4. --__ 10. __ --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not present. Cover percentages not recorded. Bromus inermis is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Markham/Ozaukee silt loams Series Drainage Class: Both moderately well drained Taxonomy (Subgroup):Mollic Oxyaquic Hapludalfs/Oxyaquic Hapludalf Field Observations Confirm Mapped Type? No soil core taken* Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. *No wetland vegetation or hydrology present so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? X No Hydric Soils Present? No soil core taken* * No Yes Yes **X** No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in wetland.* No soil core taken. *Vegetation and hydrology do not meet wetland criteria, so no soil core taken.

Site: Inaugural South Suburban Airport

Site: Inaugural South Suburban Allpolt
Locale: W02SE12
Date: May 4, 2009 30 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\redone\W02SE12.inv
Notes: FQI for W02SE12a and 12b

FLORISTIC QUALITY DATA	Native	9	56.3%	Adventive	7	43.8%
9 NATIVE SPECIES	Tree	0	0.0%	Tree	2	12.5%
16 Total Species	Shrub	3	18.8%	Shrub	1	6.3%
3.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
9.0 NATIVE FQI	P-Forb	2	12.5%	P-Forb	0	0.0%
6.8 W/Adventives	B-Forb	0	0.0%	B-Forb	1	6.3%
-1.6 NATIVE MEAN W	A-Forb	2	12.5%	A-Forb	0	0.0%
-0.8 W/Adventives	P-Grass	1	6.3%	P-Grass	3	18.8%
AVG: Fac. Wetland (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	1	6.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

	11113			
ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
ALLPET	O ALLIARIA PETIOLATA	0 FAC	Ad B-Forb	GARLIC MUSTARD
CXCRIS	4 Carex cristatella	-4 FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
COROBL	6 Cornus obliqua	-4 FACW+	Nt Shrub	BLUE-FRUITED DOGWOOD
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
GALAPA	1 Galium aparine	3 FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	O Plantago rugelii	0 FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0 POA PRATENSIS	1 FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
ROBPSE	O ROBINIA PSEUDOACACIA	4 FACU-	Ad Tree	BLACK LOCUST
ROSMUL	0 ROSA MULTIFLORA	3 FACU	Ad Shrub	MULTIFLORA ROSE
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET

Project/Site:	Inaugural South Suburban Airp	ort	_City/County:	Will County	Sampling Date: 4-May-09			
Applicant/Owner:	Illinois Department of Transporta	ition			State: Illinois Sampling Point: W02SE-12 SC-1			
Investigator(s):	T. Radke; Robyn West		_Section, Tow	nship, Range	: Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.): drainageway				Local relief (concave, convex, none: Flat			
Slope %: 0	Lat	41.37212178		Long	: <u>-87.69887516</u> Datum: <u>NAD83 Illinois East</u>			
Soil Unit Name:	Ashkum silty clay loam				NWI Classification: PSS			
Are climatic / hydro	ologic conditions on the site typical fo	r this time of year?		Yes	XNo			
Are Vegetation	Soil or hydrology	Significar	ntly disturbed?	,	Are "Normal Circumstances" present? Yes X 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 Vege Hydric Soils Prese Wetland Hydrolog	ent? Yes)		Is the Sampling Area within a Wetland? Yes X No			
Remarks: Large silky dogwood thicket								
VEGETATION -	· Use scientific names of pla	nts.						
Tree Stratum 1. 2.	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC 3 (A)			
3 4 5					Total Number of Dominant Species Across All Strata:3(B)			
J. <u></u>	Total	Cover:	· -		Percent of Dominant Species			
Sapling/Shrub Str 1. Cornus a	ratum (Plot size:	_) 75	Υ	FACW	That Are OBL, FACW, or FAC:(A/B)			
2. 3					Prevalence Index Worksheet: Total % Cover of Multiply by:			
4. 5					OBL species			
	Total	Cover:			FAC species			
Herb Stratum 1. Cornus a	(Plot size:) amomum	10	Υ	FACW	FACU species x 4 =0 UPL species x 5 =0			
2. Geum la 3.		20	Y	FACW	Column Totals			
4		- <u> </u>			Prevalence Index = B/A = #DIV/0!			
5. <u></u> 6. <u></u> 7. <u></u> 8					Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0*			
9. <u></u> 10		<u> </u>			Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet)			
10	Total	Cover:	································		Problematic Hydrophytic Vegetation (Explain)			
Woody Vine Strat	tum (Plot size:	_)			*Indicators of hydric soil and wetland hydrology must be present.			
1. <u></u> 2. <u></u>	Total	Cover:			Hydrophytic Vegetation Yes X No Present?			
Remarks: (Includ	le photo numbers here or on a sepa	rate sheet.)						

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SOIL Sampling Point: W02SE-12 SC-1

Profile Description:	(Describe to the	depth neede	ed to document th	e indicato	or or con	firm the	absence of indicators.)		
Depth	Matrix		Re	dox Featur	ec				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-14	10YR 2/1	99	10YR 6/4	1		М	silty clay loam	Moist, friable	
14-21	5Y 4/1	90	10YR 4/6	5	С С	М	silty clay	Moist, firm	
	31 1/1	50					Sifty clay	Piolog IIIII	
			5Y 5/3	5	<u>D</u>	M		<u>-</u>	
								<u> </u>	
·									
*Type: C=Concentrate	tion, D=Depletion, RN	M=Reduced M	Matrix, CS=Covered	or Coated S	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=Ma	trix	
Hydric Soil Indicate	ors:						Indicators for Problematic	Hydric Soils***:	
Histosol (A1) Histic Epipedon ((42)	•	Sandy Gleyed Sandy Redox)		Coast Prairie Redox (A16) Iron-Manganese Masses (E12)	
Black Histic (A3)			Stripped Matri				Other (Explain in Remarks		
Hydrogen Sulfide			Loamy Mucky					•	
Stratified Layers 2 cm Muck (A10)			Loamy Gleyed Depleted Matr)				
` '	Dark Surface (A11)		Redox Dark Si						
X Thick Dark Surfa	ice (A12)		Depleted Dark		7)	***	*Indicators of hydrophytic vegeta		
Sandy Mucky Mir 5 cm Mucky Pear		,	Redox Depres	sions (F8)			wetland hydrology must be pre unless disturbed or problema	•	
Restrictive Layer (i							uniess disturbed or problema	uc.	
Restrictive Layer (1	i observeu).								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X No	
Remarks:									
LIVEROLOGY									
HYDROLOGY	T								
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is requ	uired; check a	all that apply)				Secondary Indicators (minimun	n of two required)	
0.6. 111. (4			Y W. G.		0)		W 0 (0 110 1 (DC)		
Surface Water (A High Water Table		,	X Water-Stained Aquatic Fauna		9)		X Surface Soil Cracks (B6) Drainage Patterns (B10		
Saturation (A3)	C (AZ)	•	True Aquatic I)		Dry-Season Water Table (C2)	
Water Marks (B1		•	Hydrogen Sulf				Crayfish Burrows (C8)		
X Sediment Deposits (B		•	Oxidized Rhize Presence of Re	•	-	oots (C3)	Saturation Visible on Aeria Geomorphic Position (D2)	3 , ()	
Algal Mat or Crus		,	Recent Iron R			ls (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B			Thin Muck Sur						
	le on Aerial Imagery (ted Concave Surface (Gauge or Well Other (Explain		e)				
Field Observations:		(50)	Otrici (Expidii	I III ICIIIdii					
Surface Water Present			No X	Depth (incl	hes).				
Water Table Present?	_			Depth (incl					
Saturation Present?	Yes			Depth (incl	-		Wetland Hydrology Presen	t? Yes <u>X</u> No	
(includes capillary frin			NO X	Deptii (iiici	103).		Wedana Hydrology Fresen	ii les <u>x</u> No	
Describe Recorded Da		onitoring well	l, aerial photos, pre	vious inspe	ctions), if	available			
Remarks:									
Ĩ									

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	Sampling	Date: 4-May-09	9	
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sampling	Point: W02SE-	12U SC-2	
Investigator(s):	T. Radke; Robyn W	est		Section, Tow	nship, Range	Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.):	drainageway				Local relief (concave, convex	., none: Flat		
Slope %: 0		Lat: 41.37	212178		Long	: <u>-87.69887516</u>	Datı	um: NAD83 III	linois East
Soil Unit Name:	Ashkum silty clay lo	oam				NWI Classif	ication: PSS		
Are climatic / hydro	ologic conditions on the	e site typical for this tir	ne of year?		Yes	X No			
Are Vegetation	Soil	or hydrology	Significant	tly disturbed?	,	Are "Normal Circumstances" present?	`	YesX_	No
Are Vegetation	Soil	or hydrology	Naturally p	problematic?	((if needed, explain any answers in Rer	narks.)		
SUMMARY OF	FINDINGS - Attac	ch site map show	ing samp	ling point	locations,	transects, important features,	etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent?	Yes Yes X Yes	No No No			Is the Sampling Area within a Wetland?	Yes	No	X
Remarks:			•						
VEGETATION -	- Use scientific na	ames of plants.							
Tree Stratum	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species			
	americana			<u>Y</u>	UPL	That Are OBL, FACW, or FAC	1_	(A)	
3 4						Total Number of Dominant Species Across All Strata:	7	(B)	
5						opecies Across Air Otrata.		(b)	
Sapling/Shrub St	ratum (Plot size:	Total Cover:	30			Percent of Dominant Species That Are OBL, FACW, or FAC:	14%	(A/B)	
1. Cornus s	stolonifera		20	<u>Y</u>	FACW				
2. <u>Prunus a</u> 3. <u>Juglans</u>	americana nigra		30 15	Y N	UPL FACU	Prevalence Index Worksheet:	oly by:		
4. <u></u> 5						OBL species x 1			
5. <u></u>		Total Cover:	65	. ———		FACW species x 2 FAC species x 3			
Herb Stratum	(Plot size:					FACU species x 4			
1. Achillea	millefolium		25	Y	FACU	UPL species x 5	= 0	<u> </u>	
Solidago Poa prat	o altissima		25 30	<u>Y</u>	FACU FAC	Column Totals 0 (A)	0	(B)	
4. Festuca			10		UPL	Prevalence Index = B/A	= #DIV/0)!	
5. Trifolium			35	Y	FACU				
6. <u>Taraxac</u> 7. Daucus	um officinale carota		<u>10</u> 5	<u>N</u>	FACU UPL	Hydrophytic Vegetation Indicators Dominance Test is >50%	62		
8	04/014				0	Prevalence Index is *3.0*			
9. <u></u>				·		Morphological Adaptations* data in remarks or on a sepa		ting	
10. <u></u>		Tetal Cover	440	· ——		Problematic Hydrophytic Vec	,	. \	
Moody Vino Stro	tum (Dlot oizo:	Total Cover:	140			*Indicators of hydric soil and wetland	, , ,	′	
Woody Vine Stra	tum (Piot size.)				indicators of flydric soil and wetland	nydrology must	be present.	
2						Hydrophytic			
		Total Cover:				Vegetation Present?	Yes	No	<u>X</u>
Remarks: (Include	de photo numbers her	e or on a separate she	et.)						

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SOIL Sampling Point: W02SE-12U SC-2

Profile Description	: (Describe to the	depth neede	d to document t	the indicate	or or con	firm the	absence of indicators.)		
Depth	Matrix		R	edox Featur	res				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-11	10YR 4/2	90	10YR 5/6	10	С	М	clay loam	Moist, friable; some grave	·I
11-20	10YR 5/2	70	10yr 5/6	30	С	М	clay loam	Moist, firm	
11 20	1011(3/2		104: 3/0				- ciay loani	110134 11111	
-							-		
*Type: C=Concentra	ation, D=Depletion, RI	M=Reduced M	latrix. CS=Covered	d or Coated	Sand Grai	ns. **I	Location: PL=Pore Lining, M=Ma	etrix	
Hydric Soil Indicat			,				Indicators for Problematic		
,								,	
Histosol (A1)		-	Sandy Gleyed)		Coast Prairie Redox (A16)		
Histic Epipedon		-	Sandy Redox				Iron-Manganese Masses (
Black Histic (A3 Hydrogen Sulfic	•	-	Stripped Mate Loamy Mucky		1)		Other (Explain in Remark	S)	
Stratified Layers		-	Loamy Gleye						
2 cm Muck (A10		-	X Depleted Mat		-,				
	Dark Surface (A11)	-	Redox Dark S)				
Thick Dark Surf		-	Depleted Dar		F7)	**	*Indicators of hydrophytic veget	ation and	
Sandy Mucky M	` '	-	Redox Depre	ssions (F8)			wetland hydrology must be pre		
5 cm Mucky Pea	<u> </u>						unless disturbed or problema	atic.	
Restrictive Layer (if observed):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X	No
Remarks:									
HYDROLOGY									
Wetland Hydrolog	y Indicators:								
Primary Indicators (n	ninimum of one is req	uired; check a	II that apply)				Secondary Indicators (minimum	n of two required)	
Surface Water ((A1)		Water-Staine	d Leaves (B	19)		Surface Soil Cracks (B6)		
High Water Tab		-	Aquatic Faun		,		Drainage Patterns (B10		
Saturation (A3)		-	True Aquatic				Dry-Season Water Table	(C2)	
Water Marks (B	,	-	Hydrogen Su				Crayfish Burrows (C8)		
Sediment Depos	, ,	-	Oxidized Rhiz		-	oots (C3)	Saturation Visible on Aeri	3 , \ ,	
Drift Deposits (I		-	Presence of F			ile (CE)	Geomorphic Position (D2))	
Algal Mat or Cru Iron Deposits (I		-	Recent Iron F Thin Muck Su		i ilileu soi	iis (Co)	FAC-Neutral Test (D5)		
	ole on Aerial Imagery	(B7)	Gauge or We		1				
	ated Concave Surface		Other (Explai						
Field Observations		· ,							
Surface Water Preser			No X	Depth (inc	hes):				
Water Table Present	_		No X	Depth (inc					
Saturation Present?	Yes		No X	Depth (inc			Wetland Hydrology Presen	nt? Yes	No X
(includes capillary fri				Depair (inc	1103).		Wedana Hydrology Fresch	103	110 <u>X</u>
	ata (stream gauge, m	onitoring well	, aerial photos, pre	evious inspe	ections), if	available			
Remarks:									

Inaugural South Suburban Airport Site:

Locale: W02SW1
Date: April 24, 2009 1 hours
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02SW1.inv

14 20 1.9 1.3 6.9 5.8 -0.8	STIC QUALITY DATA NATIVE SPECIES Total Species NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	14 3 2 0 0 0 6 0 2 0 0 0 1 0	70.0% 15.0% 10.0% 0.0% 0.0% 30.0% 0.0% 10.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For A-For A-Gra A-Gra P-Sed A-Sed	0 e 0 0 b 1 b 3 b 0 0 ss 2 ss 0 ge 0	30.0% 0.0% 0.0% 0.0% 0.0% 5.0% 15.0% 0.0% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
ALLCER	7 Allium cernuum			1	[FAC-]	Nt P-Forb	NODDING WILD ONION
BARVUL	0 BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CYPESC	0 Cyperus esculentus	3		-1	[FAC+]	Nt P-Sedge	FIELD NUT SEDGE
EUPSEM	0 Eupatorium serotin	num		-1	FAC+	Nt P-Forb	LATE BONESET
GALAPA	1 Galium aparine			3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELAUT	5 Helenium autumnale	e		-4	FACW+	Nt P-Forb	SNEEZEWEED
HELGRO	2 Helianthus grosses	serratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
MELALB	0 MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PASSAT	0 PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINA	CEA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
POTSIS	4 Potentilla simple:	Κ		4	FACU-	Nt P-Forb	COMMON CINQUEFOIL
RANABO	0 Ranunculus abortiv	/us		-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniens	sis		2	FACU+	Nt Shrub	COMMON BLACKBERRY
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
TRIREP	0 TRIFOLIUM REPENS			2	FACU+	Ad P-Forb	WHITE CLOVER

Project/Site:	Inaugural South Suburban Airport	City/County: Will Coun	Sampling Date: 24-Apr-09
Applicant/Owner:	Illinois Department of Transportation		State: Illinois Sampling Point: W02SW-1 SC-1
Investigator(s):	T. Radke; Robyn West	Section, Township, Rar	nge: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): <u>Drainageway</u>		Local relief (concave, convex, none: concave
Slope %: 1	Lat: <u>41.375</u>	97275 Lo	ong: <u>-87.70536551</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Drummer silty clay loam		NWI Classification: Wetland Complex
Are climatic / hydro	ologic conditions on the site typical for this ti	me of year? Ye	es <u>X</u> No
Are Vegetation	Soil or hydrology X	Significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map show	ring sampling point locatio	ons, transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X	No No	Is the Sampling Area Yes X No No No
	ea w/tiled drainageway		
VEGETATION	- Use scientific names of plants.	Absolute Dominant Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:)	% Cover Species? Status	Number of Dominant Species
1. 2.			That Are OBL, FACW, or FAC3(A)
3. <u></u> 4			Total Number of Dominant Species Across All Strata: 3 (B)
5			(b)
	Total Cover:		Percent of Dominant Species
Sapling/Shrub Sti 1. Salix exig			That Are OBL, FACW, or FAC:(A/B)
2. 3			Prevalence Index Worksheet: Total % Cover of Multiply by:
4			OBL species x 1 = 0
5. <u></u>	Total Cover:	35	FACW species x 2 = 0 FAC species x 3 = 0
Herb Stratum	(Plot size:		FAC species
1. Phalaris	arundinacea	65 Y FACW	UPL species x 5 = 0
Poa prat Bromus		35 Y FAC UPL	Column Totals(A)(B)
4. Ranuncu	ılus abortivus	1 N FACW	Prevalence Index = B/A = #DIV/0!
5. <u></u> 6. <u></u>			Hydrophytic Vegetation Indicators:
7. <u></u> 8. 			Dominance Test is >50% Prevalence Index is *3.0*
9			Morphological Adaptations* (Provide supporting
10	Tatal Carran		data in remarks or on a separate sheet)
Woody Vine Stra	Total Cover: tum (Plot size:)	102	Problematic Hydrophytic Vegetation (Explain) *Indicators of hydric soil and wetland hydrology must be present.
1	,		_
2	Total Cover:		Hydrophytic Vegetation Yes X No Present?
Remarks: (Includ	de photo numbers here or on a separate she	et.)	

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02SW-1 SC-1

Profile Description	n: (Describe to the	depth need	led to document t	the indicat	tor or con	firm the	absence of indicators.)		
Depth	Matrix		R	edox Featu					
(Inches)	Color (moist)	%	Color (moist)	<u></u> %	Type*	Loc**	Texture	Remarks	
0-6	10YR 3/1	100				· ·	Moist, friable, silty clay loa	<u>m</u>	
6-14	10YR 5/2	50	2.5N	25	CS	M	Moist, friable, silty clay loa	m	
			10YR 5/6	25	CS	М			
14-17	10YR 4/1	100					Moist, firm, silty clay		
17-21	10YR 5/1	85	10YR 5/6	25	CS	М	Moist, firm, silty clay		
								- 1	
*Type: C=Concentra	ation, D=Depletion, F	M=Reduced	Matrix, CS=Covered	d or Coated	Sand Grai	ins. **I	Location: PL=Pore Lining, M=Ma	trix	
Hydric Soil Indicat	tors:						Indicators for Problematic I	Hydric Soils***:	
10.1 1444			G 1 C				0 10 11 0 1 (440)		
Histosol (A1) Histic Epipedon	(//2)		Sandy Gleyed Sandy Redox		4)		Coast Prairie Redox (A16) Iron-Manganese Masses (
Black Histic (A3			Stripped Mat				Other (Explain in Remarks		
Hydrogen Sulfic	•		Loamy Mucky		1)		_ ` ` '	•	
Stratified Layer			Loamy Gleye		2)				
2 cm Muck (A1)	0)		Depleted Mai		`				
Thick Dark Surf			Depleted Dark			**	*Indicators of hydrophytic vegeta	ation and	
Sandy Mucky M	, ,		Redox Depre	,	. ,		wetland hydrology must be pre		
5 cm Mucky Pe	at or Peat (S3)						unless disturbed or problema	tic.	
Restrictive Layer ((if observed):								
Type:									
Depth (inches):			-				Hydric Soils Present?	Yes X	No
HYDROLOGY Wetland Hydrolog	v Indicators:								
Tredana Tryatolog	, indicators								
Primary Indicators (r	minimum of one is red	quired; check	all that apply)				Secondary Indicators (minimum	n of two required)	
Surface Water	(A1)		Water-Staine	d Leaves (I	B9)		Surface Soil Cracks (B6)		
High Water Tab	` '		Aquatic Faun	a (B13) `	,		Drainage Patterns (B10		
Saturation (A3)			True Aquatic				Dry-Season Water Table ((C2)	
Water Marks (B Sediment Depo			Hydrogen Su Oxidized Rhiz			oots (C3)	Crayfish Burrows (C8) Saturation Visible on Aeria	al Imagen/ (C0)	
X Drift Deposits (` '		Presence of F			.0013 (C3)	Geomorphic Position (D2)	5 , \ ,	
Algal Mat or Cri			Recent Iron I			ils (C6)	FAC-Neutral Test (D5)		
Iron Deposits (•		Thin Muck Su	. ,					
	ble on Aerial Imagery		Gauge or We						
Field Observations	ated Concave Surface	(58)	Other (Explai	ın ın kemar	KS)				
Surface Water Prese			No X	Depth (in	choc):				
Water Table Present	-			Depth (in					
Saturation Present?	-						. Watland Underland Bressnin	12 Yes V	N.
(includes capillary fri	-		No X	Depth (in	cnes):		Wetland Hydrology Present	t? Yes X	No
	Data (stream gauge, r	nonitoring w	ell, aerial photos, pre	evious insp	ections), if	available	· I		
Remarks:									

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County	Sampling Date: 24-Apr-09
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois Sampling Point: W02SW-1 SC-2
Investigator(s):	T. Radke; Robyn W	est		Section, Tow	nship, Range	e: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.):	terrace				Local relief (concave, convex, none: concave
Slope %: 2		Lat: 41.375	97275		Long	g: <u>-87.70536551</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Drummer silty clay	loam and Markham si	It Ioam			NWI Classification: Wetland Complex
Are climatic / hydro	ologic conditions on the	e site typical for this tim	e of year?		Yes	X No
Are Vegetation	Soil	or hydrology X	Significantl	y disturbed?	,	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil	or hydrology	Naturally p	roblematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attac	ch site map showi	ng sampl	ing point l	ocations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres		Yes X	No No	X		Is the Sampling Area Within a Wotland? Yes No X
Wetland Hydrolog		Yes	No	Х		within a Wetland?
Remarks: Ditching and tili	ng problable					
VECETATION	Han animatitin ma					
VEGETATION :	- Use scientific na	arnes or plants.	Absolute	Dominant	Indicator	Dominance Test Worksheet:
Tree Stratum	(Plot size:)		Species?	Status	Number of Dominant Species
1. <u></u> 2. 						That Are OBL, FACW, or FAC(A)
3 4						Total Number of Dominant
4. <u></u> 5. 						Species Across All Strata: 2 (B)
		Total Cover:				Percent of Dominant Species
Sapling/Shrub Str	ratum (Plot size:)				That Are OBL, FACW, or FAC:(A/B)
1. <u></u> 2. <u></u>						Prevalence Index Worksheet:
3						Total % Cover of Multiply by:
4. <u></u> 5. 						OBL species
		Total Cover:				FAC species 1 x 3 = 3
Herb Stratum	(Plot size:					FACU species 2 x 4 = 8
1. Rubus a	llegheniensis		10	N	FACU	UPL species <u>3</u> x 5 = <u>15</u>
Bromus Poa prat			40	<u>Y</u> Y	UPL FAC	Column Totals 6 (A) 26 (B)
	nemoralis		90 10		UPL	Prevalence Index = B/A = 4.3
5. Potentilla	a simplex		1	N	FACU	
6. <u>Daucus</u>	carota		1	N	UPL	Hydrophytic Vegetation Indicators:
7. <u></u> 8. 						N Dominance Test is >50% Prevalence Index is *3.0*
9						Morphological Adaptations* (Provide supporting
10						data in remarks or on a separate sheet)
		Total Cover:	152			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2. 						
Z. <u></u>		Total Cover:				Hydrophytic Vegetation Yes NoX
Demonitor (b)	da whata access on t		-+\			Present?
Remarks: (Includ	de photo numbers her	e or on a separate shee	et.)			
L						

SOIL Sampling Point: W02SW-1 SC-2

0-18 10YR 2/1 100 10YR 4/2 80 10YR 6/6 5 C PL Sandy clay loam Moist friable 10YR2/1 15 CS M 20-21 2.5N 100 clay loam Moist friable 20-21 2.5N 100 clay loam Moist f	epth	Matrix		R	edox Featu	res			
18-20 10YR 4/2 80 10YR 6/6 5 C PL Sandy clay loam Moist friable 20-21 2.5N 100	nches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks
20-21 2.5H 100	0-18	10YR 2/1	100		-			Silty clay loam	Moist friable
20-21 2.5N 100 clay loam Moist friable	18-20	10YR 4/2	80	10YR 6/6	5	C	PL	Sandy clay loam	Moist friable
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix dric Soil Indicators: Histosol (A1) Histosol (A2) Sandy Redox (S5) Sandy Redox (S5) Iron-Manganese Masses (P12) Black Histo (A2) Straffied Layers (A5) Locarry (Bieged Matrix (S6) Depleted Matrix (S6) Coater (Explain in Remarks) Hydrogen Sulfide (A4) Straffied Layers (A5) Locarry (Bieged Matrix (F2) Depleted Matrix (F6) Depleted Matrix (F6) Depleted Matrix (F7) Sandy Mucky Mineral (S1) Solis match Drummer silty clay loam description ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology must be present. ***Indicators of hydrophytic vegetation and wetland hydrology Pr				10YR2/1	15	CS	М		
Histosof (A1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripted Matrix (S6) Loamy Mucky Mineral (S1) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Wetand hydrophytic vegetation and w	20-21	2.5N	100					clay loam	Moist friable
Histoso (A1) Back Histic (A2) Back Histic (A3) Stripped Matrix (S6) Dother (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Other (Explain in Remarks) Popleted Below Dark Surface (A11) Popleted Below Dark Surface (A12) Depleted Below Dark Surface (A13) Depleted Below Dark Surface (A13) Popleted Below Dark Surface (A14) High Water Table (A2) Popleted Dark High Water Marks (B1) Popleted Dark High Wate				· 					
Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histo Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Sandy Redox (S5) Jron-Manganese Masses (F12) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Redox Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Thick Dark Surface (A12) Depleted Dark Surface (F7) Sandy Mucky Mineral (S1) Redox Dark Surface (F7) Som Mucky Peat or Peat (S3) Strictive Layer (if observed): Type: Depth (inches):	•		M=Reduced	Matrix, CS=Covered	or Coated	Sand Grai	ns. **L		
Histic Epipedon (A2)	dric Soil Indicat	ors:						Indicators for Problema	tic Hydric Soils***:
PYPROLOGY Type: Depth (inches):	Histic Epipedon Black Histic (A3) Hydrogen Sulfid Stratified Layers 2 cm Muck (A10 Depleted Below Thick Dark Surfa Sandy Mucky Mi	e (A4) s (A5) l) Dark Surface (A11) ace (A12) ineral (S1)		Sandy Redox Stripped Mati Loamy Mucky Loamy Gleye Depleted Mati Redox Dark S Depleted Dar	(S5) rix (S6) rix (S6) rix (S6) rix (F3) rix (F3) Surface (F6) rix (Surface (F6)	F1) 2)) F7)	**:	Iron-Manganese Mass Other (Explain in Rem *Indicators of hydrophytic ve wetland hydrology must be	es (F12) arks) egetation and present,
Type: Depth (inches):								unless disturbed or probl	eniauc.
Depth (inches):	estrictive Layer (ii observeu).							
PYDROLOGY Petland Hydrology Indicators:									
YDROLOGY Vetland Hydrology Indicators: Imary Indicators (minimum of one is required; check all that apply. Surface Water (A1)				_				Hydric Soils Present?	Yes X No
Surface Water (A1)	Depth (inches):	nmer silty clay loam o	description	- -				Hydric Soils Present?	Yes <u>X</u> No
High Water Table (A2) Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Teled Observations: Urface Water Present? Ves No X Depth (inches): Saturation Visible on Aerial Imagery (C9) FAC-Neutral Test (D5) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)	Depth (inches): emarks: Soils match Drun		description	-				Hydric Soils Present?	Yes <u>X</u> No
urface Water Present? Yes No Depth (inches): /ater Table Present? Yes No Depth (inches):	Depth (inches): emarks: Soils match Drun YDROLOGY Tetland Hydrology	y Indicators:		all that apply'					
Vater Table Present? Yes No X Depth (inches): Auturation Present? Y	Depth (inches): emarks: Soils match Drun YDROLOGY Yetland Hydrology imary Indicators (m Surface Water (, High Water Tabl Saturation (A3) Water Marks (B: Sediment Depos Drift Deposits (B: Algal Mat or Cru Iron Deposits (B: Inundation Visib Sparsely Vegeta	y Indicators: ninimum of one is rec A1) le (A2) 1) sits (B2) sst (B4) st (B4) le on Aerial Imagery ted Concave Surface	quired; check	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14 Ifide Odor (cospheres of Reduced Iron Reduction in Inface (C7) Ill Data (D9)	4) (C1) In Living Ro In (C4) In Tilled Soi	, ,	Secondary Indicators (minimum) Surface Soil Cracks (Bill Drainage Patterns (Bill Dry-Season Water Tall Crayfish Burrows (C8) Saturation Visible on Aignorphic Position (Geomorphic Position (Call Dry Call Dry Cal	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9)
aturation Present? Yes NoX Depth (inches): Wetland Hydrology Present? Yes No includes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	Pepth (inches): emarks: Soils match Drun YDROLOGY Yetland Hydrology imary Indicators (m Surface Water (a. High Water Table Saturation (A3) Water Marks (B: Sediment Deposits (B. Algal Mat or Cru Iron Deposits (B. Inundation Visib Sparsely Vegeta eld Observations	y Indicators: ninimum of one is rec A1) le (A2) 1) sits (B2) 33) st (B4) 85) le on Aerial Imagery ted Concave Surface :	quired; check (B7) (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (cospheres o Reduced Irc Reduction ir Irface (C7) Il Data (D9) In in Remar	4) C1) In Living Re on (C4) In Tilled Soi) ks)	, ,	Secondary Indicators (minimum) Surface Soil Cracks (Bill Drainage Patterns (Bill Dry-Season Water Tall Crayfish Burrows (C8) Saturation Visible on Aignorphic Position (Geomorphic Position (Call Dry Call Dry Cal	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9)
ncludes capillary fringe) escribe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available	Pepth (inches): emarks: Soils match Drun YDROLOGY Yetland Hydrology imary Indicators (m Surface Water (A) Saturation (A3) Water Marks (B) Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Inundation Visib Sparsely Vegeta eld Observations urface Water Preser	y Indicators: A1) le (A2) 1) sits (B2) 33) st (B4) 55) le on Aerial Imagery ted Concave Surface : ht? Yes	quired; check	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Irc Reduction ir urface (C7) Il Data (D9) n in Remar	4) (C1) In Living Roon (C4) In Tilled Soi (ks)	, ,	Secondary Indicators (minimum) Surface Soil Cracks (Bill Drainage Patterns (Bill Dry-Season Water Tall Crayfish Burrows (C8) Saturation Visible on Aignorphic Position (Geomorphic Position (Call Dry Call Dry Cal	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9)
emarks:	Pepth (inches): emarks: Soils match Drun YDROLOGY //etland Hydrology imary Indicators (m Surface Water (A) Saturation (A3) Water Marks (B): Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Inundation Visib Sparsely Vegeta eld Observations urface Water Present?	y Indicators: ninimum of one is rec A1) le (A2) 1) sits (B2) 33) st (B4) 85) le on Aerial Imagery ted Concave Surface : at? Yes Yes	quired; check (B7) (B8)	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (cospheres of Reduced Irco Reduction in Irrface (C7) If Data (D9) In in Reman Depth (incomplete Irro Depth (incompl	th) C1) C1) In Living Report (C4) In Tilled Soil (Ks) Ches):	, ,	Secondary Indicators (minimum) Surface Soil Cracks (Bour) Drainage Patterns (B1 Dry-Season Water Tal Crayfish Burrows (CD) Saturation Visible on Ageomorphic Position (FAC-Neutral Test (DS)	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9) D2)
CHI di NS.	Pepth (inches): emarks: Soils match Drun YDROLOGY Yetland Hydrology imary Indicators (m Surface Water (, High Water Table Algal Mat or Cru Iron Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visib Sparsely Vegeta eld Observations urface Water Present ater Table Present?	y Indicators: ninimum of one is rec A1) le (A2) 1) sits (B2) 33) st (B4) 35) sle on Aerial Imagery ted Concave Surface : at? Yes _ Yes _ Yes _ nge)	quired; check	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (cospheres o Reduced Irc Reduction in Irface (C7) Il Data (D9) n in Remar Depth (inc	A) C1) In Living Roon (C4) In Tilled Soi (Ks) Ches): Ches):	ls (C6)	Secondary Indicators (minimum) Surface Soil Cracks (Bour) Drainage Patterns (B1 Dry-Season Water Tal Crayfish Burrows (CD) Saturation Visible on Ageomorphic Position (FAC-Neutral Test (DS)	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9) D2)
	Poepth (inches): emarks: Soils match Drun YDROLOGY Yetland Hydrology imary Indicators (m Surface Water (A) Saturation (A3) Water Marks (B) Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Inundation Visib Sparsely Vegeta eld Observations urface Water Present? aturation Present? includes capillary frir escribe Recorded Da	y Indicators: ninimum of one is rec A1) le (A2) 1) sits (B2) 33) st (B4) 35) sle on Aerial Imagery ted Concave Surface : at? Yes _ Yes _ Yes _ nge)	quired; check	Water-Staine Aquatic Faun True Aquatic Hydrogen Su Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Iffide Odor (cospheres o Reduced Irc Reduction in Irface (C7) Il Data (D9) n in Remar Depth (inc	A) C1) In Living Roon (C4) In Tilled Soi (Ks) Ches): Ches):	ls (C6)	Secondary Indicators (minimum) Surface Soil Cracks (Bour) Drainage Patterns (B1 Dry-Season Water Tal Crayfish Burrows (CD) Saturation Visible on Ageomorphic Position (FAC-Neutral Test (DS)	mum of two required) 6) 0 ole (C2) Aerial Imagery (C9) D2)

Site: Inaugural South Suburban Airport

Locale: W02SW3
Date: April 23, 2009 1 hours
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W02SW3.inv

12 NA 19 T 2.1 NA 1.3 W 7.2 NA 5.7 W -2.7 NA -1.6 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	12 3 2 0 0 3 0 1 1 1 0 2 0 0	63.2% 15.8% 10.5% 0.0% 0.0% 15.8% 0.0% 5.3% 5.3% 0.0% 10.5% 0.0%	Advent Tree Shrub W-Vine H-Vine P-Fork A-Fork P-Gras A-Gras P-Sedo A-Sedo	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	36.8% 5.3% 10.5% 0.0% 0.0% 0.0% 5.3% 0.0% 15.8% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
BARVUL	0 BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
GEULAT	2 Geum laciniatum tri	chocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
LEMMIO	5 Lemna minor			-5	OBL	Nt A-Forb	SMALL DUCKWEED
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHRAUS	1 Phragmites australi	s		-4	FACW+	Nt P-Grass	COMMON REED
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
ROSMUL	0 ROSA MULTIFLORA			3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniensi	S		2	FACU+	Nt Shrub	COMMON BLACKBERRY
SALALB	O SALIX ALBA			-3	FACW	Ad Tree	WHITE WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SCIFLU	4 Scirpus fluviatilis			-5	OBL	Nt P-Sedge	RIVER BULRUSH
SCIVAC	5 Scirpus validus cre	ber		-5	OBL	Nt P-Sedge	GREAT BULRUSH
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
TYPANG	1 Typha angustifolia			-5	OBL	Nt P-Forb	NARROW-LEAVED CATTAIL

Project/Site:	Inaugural South Suburban Airport		City/County:	Will County	Sampling Date: 23-Apr-09
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W02SW-3 S2
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	e: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): Depression				Local relief (concave, convex, none: Concave
Slope %: 1	Lat: <u>41.370</u>	82854		Long	g: <u>-87.70520097</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Peotone silty clay loam				NWI Classification: PEM/PSS
Are climatic / hydro	ologic conditions on the site typical for this ti	me of year?	>	Yes	X No
Are Vegetation	Soil or hydrology X	Significant	tly disturbed?	? /	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally p	oroblematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map show	ing samı	pling poin	t locations	s, transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	sent? Yes X	No No No			Is the Sampling Area Yes X No
Remarks: Plot is near bou	ndary of old field dominated by bromus a	and willow	thicket at ec	lge of open v	water.
VEGETATION	- Use scientific names of plants.				
2. <u>Acer sac</u> 3	(Plot size:) s palustris (planted) ccharinum	Absolute % Cover 10 20	Dominant Species? Y	Indicator Status FACW FACW	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC Total Number of Dominant (A)
4 5					Species Across All Strata:5 (B)
Sapling/Shrub St		<u>30</u> 50	Y	OBL	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
	llegheniensis	20	Y	FACU	Prevalence Index Worksheet: Total % Cover of Multiply by: OBL species x 1 = 0 FACW species x 2 = 0
Herb Stratum 1. Bromus (2. 3. 4	Total Cover: (Plot size:) inermis	90	Y	UPL	FAC species x 3 = 0 FACU species x 4 = 0 UPL species x 5 = 0 Column Totals (A) 0 (B) Prevalence Index = B/A = #DIV/0!
5 6 7 8 9 10	Total Cover:	90			Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra		30			*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2. <u></u>	Total Cover:				Hydrophytic Vegetation Yes X No Present?
Remarks: (Includ	de photo numbers here or on a separate she	et.)			

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02SW-3 S2 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Loc** Texture Color (moist) 0-6 10YR 2/1 100 Silty clay loam some gravel 10YR 3/1 80 10YR 5/3 Silty clay loam some gravel 10YR5/6 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present?** No Yes X Concretions and oxidized root channels in upper 6" **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10 Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Hydrogen Sulfide Odor (C1) Water Marks (B1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) **Field Observations:** Surface Water Present? Water Table Present? Depth (inches): Depth (inches): **Wetland Hydrology Present?** Saturation Present? No Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: **Oxidized root channels**

Project/Site:	Inaugural South Suburban Airport	Ci	ity/County:	Will County	Samplino	g Date: 23-Apr-09
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling	g Point: W02SW-3 SC-1
Investigator(s):	T. Radke; Robyn West	Se	ection, Tow	nship, Range	Section 2; T33N; R13E	
Landform (hillside,	terrace, etc.): <u>Drainageway</u>				Local relief (concave, conver	x, none: Concave
Slope %: 0	Lat: 41.370	082854		Long	: -87.70520097	Datum: NAD83 Illinois East
Soil Unit Name:	Peotone silty clay loam				NWI Classifi	fication:
Are climatic / hydro	ologic conditions on the site typical for this ti	ime of year?		Yes	X No	
Are Vegetation	Soil or hydrology	Significantly	disturbed	? /	Are "Normal Circumstances" present?	? Yes <u>X</u> No
Are Vegetation	Soil or hydrology	Naturally pro	oblematic?	(if needed, explain any answers in Re	marks.)
SUMMARY OF	FINDINGS - Attach site map show	ving sampl	ing poin	t locations	, transects, important feature	es, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	sent? Yes		X X X		Is the Sampling Area within a Wetland?	Yes No <u>X</u>
Remarks:						
VEGETATION	- Use scientific names of plants.					
Tree Stratum 1. Quercus 2.	(Plot size:) s macrocarpa (planted)	Absolute 5 % Cover 5 50	Dominant Species? Y	Indicator Status FAC	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC	(A)
3 4 5					Total Number of Dominant Species Across All Strata:	(B)
Sapling/Shrub St	Total Cover: ratum (Plot size:) Illegheniensis		Y	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC:	25% (A/B)
2. <u></u> 3					Prevalence Index Worksheet:	iply by:
4. <u></u> 5					OBL species x 1 FACW species x 2	
	Total Cover:	25			FAC species x 3	= 0
Herb Stratum 1. Bromus	(Plot size:) inermis	80	Υ	UPL	FACU species x 4 UPL species x 5	
2. <u>Solidago</u> 3.	o altissima	20	Y	FACU	Column Totals (A)	(B)
4. <u></u> 5					Prevalence Index = B/A	A = #DIV/0!
6 7 8 9 10					Hydrophytic Vegetation Indicator Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* data in remarks or on a separation of the se	(Provide supporting arate sheet)
Woody Vine Stra	Total Cover: stum (Plot size:)	100			Problematic Hydrophytic Ve *Indicators of hydric soil and wetlan	• ' '
1. <u></u> 2. <u></u>	Total Cover:			_	Hydrophytic Vegetation Present?	Yes NoX
Remarks: (Includ	de photo numbers here or on a separate she	eet.)				

SOIL Sampling Point: W02SW-3 SC-1

Profile Description:	(Describe to the	depth need	led to document t	he indicate	or or con	firm the	absence of indicators.)		
Depth	Matrix		R	edox Featur	es				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-9	10YR 2/2	100					Moist, friable, silty clay loam		
9-12	10YR4/3	95	10YR 6/3	5			Moist, friable, silty clay loam	1	
12-20	10YR 5/6	75	10YR 5/6	25			Moist, firm; clay	wet at 19"; some gravel	
		-						,	-
			-				-		
*Type: C=Concentrat		M=Reduced	Matrix, CS=Covered	or Coated	Sand Grai	ins. **I	Location: PL=Pore Lining, M=Matr		
Hydric Soil Indicate	ors:						Indicators for Problematic H	ydric Soils***:	
Histosol (A1)			Sandy Gleyed	Matrix (S4)		Coast Prairie Redox (A16)		
Histic Epipedon (Sandy Redox				Iron-Manganese Masses (F1	12)	
Black Histic (A3) Hydrogen Sulfide			Stripped Mat Loamy Mucky	. ,	1)		Other (Explain in Remarks)		
Stratified Layers			Loamy Gleye						
2 cm Muck (A10)			Depleted Mat	` ,					
Thick Dark Surfa	Dark Surface (A11) ce (A12)		Redox Dark S Depleted Dar			*	**Indicators of hydrophytic vegeta	ation and	
Sandy Mucky Mir			Redox Depre	•	,,		wetland hydrology must be pre		
5 cm Mucky Peat	t or Peat (S3)		·				unless disturbed or problema	tic.	
Restrictive Layer (in	f observed):								
Type:									
Depth (inches):			- -				Hydric Soils Present?	Yes	No X
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (mi	inimum of one is req	uired; check	all that apply)				Secondary Indicators (minimum	of two required)	
Surface Water (A High Water Table			Water-Staine Aguatic Faun		9)		Surface Soil Cracks (B6) Drainage Patterns (B10		
Saturation (A3)	C (AZ)		True Aquatic)		Dry-Season Water Table (C.	2)	
Water Marks (B1			Hydrogen Su				Crayfish Burrows (C8)		
Sediment Deposi Drift Deposits (B)			Oxidized Rhiz Presence of F	•	-	oots (C3)	Saturation Visible on Aerial Geomorphic Position (D2)	Imagery (C9)	
Algal Mat or Crus	,		Recent Iron I			ils (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B			Thin Muck Su			. ,			
	le on Aerial Imagery ed Concave Surface		Gauge or We Other (Explai						
Field Observations:		(50)	Other (Explain	II III Kemar	(S)				
Surface Water Present			No X	Depth (inc	hes).				
Water Table Present?	Yes		No X	Depth (inc	•		-		
Saturation Present?	Yes		No X	Depth (inc			Wetland Hydrology Present?	? Yes	No X
(includes capillary frin	_		<u> </u>	Depair (inc	1103).		Wedana Hydrology Fresches	163	NO <u>X</u>
Describe Recorded Da	ita (stream gauge, m	nonitoring we	ell, aerial photos, pre	evious inspe	ctions), if	available			
Remarks:									

Site: Inaugural South Suburban Airport

Locale: W02SW5
Date: May 1, 2009 30 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW5.inv

10 NA 14 T 2.1 NA 1.5 W 6.6 NA 5.6 W -3.0 NA -2.1 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	10 2 0 0 0 5 0 0 0 0 0 0		Advent Tree Shrub W-Vine H-Vine P-Fork A-Fork P-Gras A-Gras P-Sedo	1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	28.6% 7.1% 7.1% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
ELEERY	2 Eleocharis erythrop	ooda		-5	OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
EPICOL	3 Epilobium coloratum	n		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EQUARV	O Equisetum arvense			0	FAC	Cryptogam	HORSETAIL
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
LYCAME	5 Lycopus americanus			-5	OBL	Nt P-Forb	COMMON WATER HOREHOUND
PHAARU	O PHALARIS ARUNDINACE	EΑ		-4	FACW+	Ad P-Grass	REED CANARY GRASS
ROBPSE	O ROBINIA PSEUDOACAC	IA		4	FACU-	Ad Tree	BLACK LOCUST
ROSMUL	O ROSA MULTIFLORA			3	FACU	Ad Shrub	MULTIFLORA ROSE
TYPANG	1 Typha angustifolia			-5	OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3 Ulmus americana			-2	FACW-	Nt Tree	AMERICAN ELM

Project/Site:	Inaugural South Suburban Airpo	ort	(City/County:	Will County	Sa	impling Date:	5/1/2009
Applicant/Owner:	Illinois Department of Transportat	ion				State: Illinois Sa	mpling Point:	W02SW-5 SC-1
Investigator(s):	T. Radke; Robyn West		8	Section, Tow	nship, Range	Section 2; T33N; R13E		
Landform (hillside,	terrace, etc.): slope					Local relief (concave, o	convex, none:	concave
Slope %: 2	Lat:_	41.374759	907		Long	: -87.70714816		Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam (Drummer silty	clay loam	ı is mapr	ed adjacen	t)	NWI (Classification:	PEM
Are climatic / hydro	ologic conditions on the site typical for	this time c	of year?		Yes	XNo		
Are Vegetation	Soil or hydrology	Si	ignificantl	y disturbed?	,	Are "Normal Circumstances" pre	esent?	Yes X No
Are Vegetation	Soil or hydrology	Na	aturally pı	roblematic?	((if needed, explain any answers	in Remarks.)	
SUMMARY OF	FINDINGS - Attach site map s	howing	sampli	ing point	locations,	transects, important feat	ures, etc.	
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog Remarks: Seepy drainage	ent? Yes	X X X	No			Is the Sampling Area within a Wetland?	Yes	XNo
VEGETATION -	- Use scientific names of plan	Al		Dominant Species?	Indicator Status	Dominance Test Worksheet Number of Dominant Species		
1. <u>Ulmus a.</u> 2	mericana	_	25	Υ	FACW	That Are OBL, FACW, or FAC	:	5(A)
3. <u></u> 4		=				Total Number of Dominant Species Across All Strata:		6 (B)
5	Total		25			Dereant of Deminant Charles		
	Total (<u>ratum</u> (Plot size: pseudoacacia		25	Y	FACU	Percent of Dominant Species That Are OBL, FACW, or FAC	:	83% (A/B)
2. <u></u> 3. <u></u>		_				Prevalence Index Workshee Total % Cover of	t: Multiply by:	<u> </u>
4. <u></u> 5. 		_				OBL species FACW species	x 1 = x 2 =	0 0
	Total (Cover:	20			FAC species	x 3 =	0
Herb Stratum	(Plot size:)		50	v	E4 0)4/	FACU species	x 4 =	0
Agrostis Phalaris	arundinacea		50 25	<u>Y</u>	FACW	UPL species Column Totals 0 (A)	x 5 =	0 (B)
	americanus	_	10		OBL			, 、 ,
4. Carex cr		_	25	<u>Y</u>	FACW	Prevalence Index	= B/A =	#DIV/0!
5. <u>Epilobiur</u> 6	m coloratum	_	25	<u> </u>	OBL	Hydrophytic Vegetation Indi	cators:	
7		-				Dominance Test is >5		
8						Prevalence Index is *3		
9. <u></u>		_				Morphological Adaptat		
10		_				data in remarks or on	•	,
	Total 0	Cover:	135			Problematic Hydrophy	tic Vegetation	n (Explain)
Woody Vine Strat	tum (Plot size:)				*Indicators of hydric soil and w	etland hydrol	ogy must be present.
2		_				Hydrophytic		
	Total (Vegetation Present?	Yes	X No
Remarks: (Include Sedge meadow	de photo numbers here or on a separa in drainageway	ite sheet.)						

SOIL Sampling Point: W02SW-5 SC-1

nches)	Color (moist)	%	Color (moist)	edox Features % Type*	Loc**	Texture	Remarks	
0-7	10YR 2/1	98	10YR 4/3	2 RM	M	Mucky, silty loam; wet		
<u> </u>	101112/1		20111.170			- Hadry one Hours, wee		
							_	
•	ation, D=Depletion, RN	1=Reduced N	Natrix, CS=Covered	or Coated Sand Gr	ains. **L	ocation: PL=Pore Lining, M=Ma		
dric Soil Indicat	ors:					Indicators for Problematic	Hydric Soils***:	
Histosol (A1)			Sandy Gleyed			Coast Prairie Redox (A16		
Histic Epipedon			Sandy Redox			Iron-Manganese Masses Other (Explain in Remark	(F12)	
Black Histic (A3 Hydrogen Sulfic	,		X Stripped Matr Loamy Mucky			Other (Explain in Remark	S)	
Stratified Layers			Loamy Gleye					
2 cm Muck (A10			Depleted Mat					
Depleted Below	Dark Surface (A11)		Redox Dark S					
Thick Dark Surf				k Surface (F7)	***	Indicators of hydrophytic veget	tation and	
_ Sandy Mucky M	` '		Redox Depres	ssions (F8)		wetland hydrology must be pro		
_ 5 cm Mucky Pea	. ,					unless disturbed or problema	atic.	
strictive Layer (ir observed):							
Type:								
Depth (inches): marks: Soil core inunc	lated below 7"					Hydric Soils Present?	Yes X	No
emarks:	dated below 7"					Hydric Soils Present?	Yes <u>X</u>	No_
marks: Soil core inunc	dated below 7"					Hydric Soils Present?	Yes X	No_
emarks: Soil core inunc						Hydric Soils Present?	Yes X	No_
emarks: Soil core inunc YDROLOGY Vetland Hydrolog		uired; check :	all that apply)			Hydric Soils Present? Secondary Indicators (minimum		No_
YDROLOGY Tetland Hydrolog Imary Indicators (r	y Indicators: ninimum of one is requ	uired; check a		d Leaves (B9)				No_
YDROLOGY Yetland Hydrolog imary Indicators (note the content of	y Indicators: ninimum of one is requ (A1) ble (A2)	uired; check a		` '		Secondary Indicators (minimum		No_
YDROLOGY Yetland Hydrolog imary Indicators (n Surface Water (n High Water Tab Saturation (A3)	y Indicators: ninimum of one is requ (A1) le (A2)	uired; check a	Water-Staine Aquatic Faun True Aquatic	a (B13) Plants (B14)		Secondary Indicators (minimum Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table	m of two required)	No_
Surface Water (A) Water Marks (B) Water Marks (B) Water Marks (B)	y Indicators: ninimum of one is requ (A1) le (A2) 1)	uired; check a	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14) fide Odor (C1)		Secondary Indicators (minimumumumumumumumumumumumumumumumumumu	m of two required)	No_
YDROLOGY Tetland Hydrolog Imary Indicators (no. 1) Water Tab Saturation (A3) Water Marks (B. Sediment Depos	y Indicators: ninimum of one is required (A1) le (A2) 1) sits (B2)	uired; check a	Water-Stainer Aquatic Faunt True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14) fide Odor (C1) ospheres on Living	Roots (C3)	Secondary Indicators (minimuma) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri	m of two required) (C2) (C2) (C9)	No
Soil core inunce Soil core inunce EXPOROLOGY Vetland Hydrolog Finary Indicators (note) K Surface Water (And Water Table K Saturation (And Water Marks (Bound Sediment Deposits (Incomplete) Drift Deposits (Incomplete)	y Indicators: ninimum of one is required. (A1) le (A2) 1) sits (B2) B3)	uired; check a	Water-Stainer Aquatic Faunt True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4)	, ,	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C9)	No_
YDROLOGY Yetland Hydrolog imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (I Algal Mat or Cru	y Indicators: ninimum of one is required (A1) ale (A2) 1) sits (B2) 33) sst (B4)	uired; check a	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S	, ,	Secondary Indicators (minimuma) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri	m of two required) (C2) (C2) (C9)	No_
YDROLOGY YDROLOGY Yetland Hydrolog imary Indicators (note the content of the c	y Indicators: ninimum of one is required (A1) (ble (A2) 1) (sits (B2) (B3) (st (B4) (B5)		Water-Stainer Aquatic Fauni True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron F Thin Muck Su	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7)	, ,	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C9)	No_
YDROLOGY Yetland Hydrolog imary Indicators (n Surface Water (1) High Water Tab Saturation (A3) Water Marks (B Sediment Depo- Drift Deposits (I) Algal Mat or Cru Iron Deposits (I) Inundation Visit	y Indicators: ninimum of one is required (A1) ale (A2) 1) sits (B2) 33) sst (B4)	· (B7)	Water-Stainer Aquatic Fauni True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S urface (C7)	, ,	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C9)	No
YDROLOGY YDROLOGY Yetland Hydrolog imary Indicators (note the property of t	y Indicators: ninimum of one is required. (A1) Ile (A2) 1) Sits (B2) B3) Ist (B4) B5) Ile on Aerial Imagery (Interest in the state of the	· (B7)	Water-Stainer Aquatic Fauni True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron F Thin Muck Su Gauge or We	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S Irface (C7) Il Data (D9)	, ,	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C3)	No_
YDROLOGY etland Hydrolog imary Indicators (note: 1 to 1 t	y Indicators: ninimum of one is required. (A1) (ble (A2) 1) (sits (B2) (B3) (st (B4) (B5) (ble on Aerial Imagery ((atted Concave Surface	(B7) (B8) X	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living teduced Iron (C4) teduction in Tilled S urface (C7) Il Data (D9) n in Remarks) Depth (inches):	, ,	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C3)	No_
YDROLOGY etland Hydrolog imary Indicators (n Surface Water (A) Saturation (A3) Water Marks (B) Sediment Deposits (I) Algal Mat or Cru Iron Deposits (I) Inundation Visit Sparsely Vegeta eld Observations	y Indicators: ninimum of one is required. (A1) ole (A2) 1) sits (B2) B3) sst (B4) 35) ole on Aerial Imagery (atted Concave Surface (strict Yes	(B7) (B8) X X	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living teduced Iron (C4) teduction in Tilled S urface (C7) Il Data (D9) n in Remarks) Depth (inches):	ioils (C6)	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) (C2) (C3)	No_
YDROLOGY YDROLOGY Yetland Hydrolog imary Indicators (note that the content of	y Indicators: ninimum of one is required. (A1) (A2) (A2)	(B7) (B8) X X	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living teduced Iron (C4) teduction in Tilled S urface (C7) Il Data (D9) n in Remarks) Depth (inches):	oils (C6)	Secondary Indicators (minimul) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2)	m of two required) (C2) al Imagery (C9)	No_
YDROLOGY Yetland Hydrolog imary Indicators (note in the image) Surface Water (and in the image) Saturation (A3) Water Marks (B) Sediment Deposits (In the image) Drift Deposits (In in the image) In In the image is the image) In the image is the image in the image is the image is the image in the image is the image in the image is the image is the image is the image is the image in the image is the	y Indicators: ninimum of one is required. (A1) (A2) (A2)	(B7) (B8) X X	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S Irface (C7) Il Data (D9) n in Remarks) Depth (inches): Depth (inches):	<1 0* 0*	Secondary Indicators (minimum) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2) FAC-Neutral Test (D5)	m of two required) (C2) al Imagery (C9)	-
YDROLOGY Yetland Hydrolog imary Indicators (note in the image) Surface Water (and in the image) Saturation (A3) Water Marks (B) Sediment Deposits (In the image) Drift Deposits (In in the image) In In the image is the image) In the image is the image in the image is the image is the image in the image is the image in the image is the image is the image is the image is the image in the image is the	y Indicators: ninimum of one is required. (A1) lee (A2) 1) sits (B2) B3) sits (B4) B5) ble on Aerial Imagery (ated Concave Surface ((B7) (B8) X X	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S Irface (C7) Il Data (D9) n in Remarks) Depth (inches): Depth (inches):	<1 0* 0*	Secondary Indicators (minimum) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2) FAC-Neutral Test (D5)	m of two required) (C2) al Imagery (C9)	
PAROLOGY Vetland Hydrolog Imary Indicators (note in the indicators) Surface Water (and in the indicators) Water Marks (Bound in the indicator) Sediment Deposits (Indicator) Iron Deposits (Indicator) Inon Deposits (Indicator) Indicator Visit Sparsely Vegeta Indicator Present Indicator Present Indicator Present Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator Indicator I	y Indicators: ninimum of one is required. (A1) (A1) (ble (A2) 1) (sits (B2) (B3) (sits (B4) (B5) (ble on Aerial Imagery (atted Concave Surface (atted	(B7) (B8) X X	Water-Staine Aquatic Faun True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) fide Odor (C1) ospheres on Living Reduced Iron (C4) Reduction in Tilled S Irface (C7) Il Data (D9) n in Remarks) Depth (inches): Depth (inches):	<1 0* 0*	Secondary Indicators (minimum) Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table Crayfish Burrows (C8) Saturation Visible on Aeri Geomorphic Position (D2) FAC-Neutral Test (D5)	m of two required) (C2) al Imagery (C9)	

Project/Site:	Inaugural South Suburban Airport City/County: W			Will County	Sampling Date: <u>5/1/2009</u>		
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W02SW-5U SC-2		
Investigator(s):	T. Radke; Robyn West	Se	ection, Tow	nship, Range	: <u>Section 2; T33N; R13E</u>		
Landform (hillside,	terrace, etc.): Hillside				Local relief (concave, convex, none: Concave		
Slope %:4	Lat: 41.37-	475907		Long	: <u>-87.70714816</u> Datum: <u>NAD83 Illinois East</u>		
Soil Unit Name:	Markham silt loam/Ozaukee silt loam				NWI Classification: UPL		
Are climatic / hydro	ologic conditions on the site typical for this tir	me of year?		Yes	XNo		
Are Vegetation	Soil or hydrology	Significantly	disturbed?	,	Are "Normal Circumstances" present? Yes X No No		
Are Vegetation	Soil or hydrology	='			(if needed, explain any answers in Remarks.)		
SUMMARY OF	FINDINGS - Attach site map show	ing samplin	ng point	locations,	transects, important features, etc.		
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes	No No No	X		Is the Sampling Area Yes No X		
Remarks: Seepy hillside has wetland elements in vegetation. Phalaris grows uphill.							
VEGETATION -	- Use scientific names of plants.						
Troc Stratum	(Plot circ)		Dominant	Indicator	Dominance Test Worksheet:		
Tree Stratum 1. Ulmus ru	(Plot size:)	% Cover S 30	Y Y	Status FAC	Number of Dominant Species That Are OBL, FACW, or FAC 2 (A)		
	pseudoacacia	35	Y	FACU	(',		
Acer neg	gundo	1	N	FACW	Total Number of Dominant		
4. <u></u>					Species Across All Strata:6(B)		
5. <u></u>							
	Total Cover:	66			Percent of Dominant Species		
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or FAC: 33% (A/B)		
1. Robinia	pseudoacacia	30	Υ	FACU	,		
2. Rosa mu	ultiflora	5	N	FACU	Prevalence Index Worksheet:		
3. <u></u>					Total % Cover of Multiply by:		
4. <u></u>					OBL species x1 = 0		
5. <u></u>					FACW species x 2 =0		
	Total Cover:	35			FAC species x 3 =0		
Herb Stratum	(Plot size:)				FACU species x 4 =0		
1. Poa prat	tensis	45	Υ	FAC	UPL species x 5 = 0		
2. Bromus		35	<u>Y</u>	UPL	Column Totals(A)(B)		
	arundinacea	<u>5</u>	N N	FACW UPL	Prevalence Index = B/A = #DIV/0!		
4. Pastinad 5. Solidago	o altissima	25		FACU	Prevalence Index = B/A = #DIV/0!		
	um officinale	1 -	N	FACU	Hydrophytic Vegetation Indicators:		
7. Morus ai		1	N	FAC	Dominance Test is >50%		
8. Geum ca	anadense	3	N	FAC	Prevalence Index is *3.0*		
9. Arctium	minus	3	N	UPL	Morphological Adaptations* (Provide supporting		
10. <u></u>					data in remarks or on a separate sheet)		
	Total Cover:	120			Problematic Hydrophytic Vegetation (Explain)		
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.		
1. <u></u>	·						
2					Hydrophytic		
	Total Cover:	<u> </u>			Vegetation Yes No X Present?		
Remarks: (Include	de photo numbers here or on a separate she	eet.)			•		
		•					

SOIL Sampling Point: W02SW-5U SC-2

Profile Description:	(Describe to the	depth need	led to document t	he indicato	or or con	firm the	absence of indicators.)				
Depth	Matrix		Da	edox Featur	·oc						
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks			
0-8	10YR 4/3	100					Silty clay loam				
8-15	10YR 5/3	84	10YR 4/1	1		PL	Silty clay loam	-			
0-15	1018 3/3	04	·				Silly Clay IDaili	-			
			10YR5/6	15	C	M					
								-, <u>-</u>			
***************************************	tion D. Donletion D.	M. Dadward	Matrix CC Carrant	Ctd	C 1 C:		tion D. Donalinina M. Ma				
*Type: C=Concentra		M=Reduced	Matrix, CS=Covered	or Coated	Sana Grai	ns. **L	ocation: PL=Pore Lining, M=Ma				
Hydric Soil Indicate	ors:						Indicators for Problematic	Hydric Soils***:			
Histosol (A1)			Sandy Gleyed	Matrix (S4)		Coast Prairie Redox (A16)	l			
Histic Epipedon (Sandy Redox		,		Iron-Manganese Masses (
Black Histic (A3)			Stripped Matr				Other (Explain in Remarks	5)			
Hydrogen Sulfide			Loamy Mucky								
Stratified Layers 2 cm Muck (A10			Loamy Gleyed Depleted Mate		.)						
	Dark Surface (A11)		Redox Dark S								
Thick Dark Surfa			Depleted Darl		7)	***	*Indicators of hydrophytic vegeta	ation and			
Sandy Mucky Mi	` '		Redox Depres		,		wetland hydrology must be pre				
5 cm Mucky Pea	t or Peat (S3)			` '			unless disturbed or problema	tic.			
Restrictive Layer (i	f observed):										
_											
Type: Depth (inches):			_				Hydric Soils Present?	Yes	No X		
Remarks:			_				Trydric Sons Fresche		NO_X_		
HYDROLOGY											
Wetland Hydrology	Indicators:										
Primary Indicators (m	inimum of one is req	uired; check	all that apply)				Secondary Indicators (minimum	n of two required)			
Surface Water (A			Water-Stained		9)		Surface Soil Cracks (B6)				
X High Water Table	e (A2)		Aquatic Fauna				Drainage Patterns (B10				
Saturation (A3)			True Aquatic				Dry-Season Water Table ((C2)			
Water Marks (B1 Sediment Depos			Hydrogen Sul Oxidized Rhiz	fide Odor ((C1) o Living Pr	oote (C3)	Crayfish Burrows (C8)	al Imagony (CO)			
Drift Deposits (B	` '		Presence of R			00ts (C3)	Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)				
Algal Mat or Crus			Recent Iron R			ls (C6)	FAC-Neutral Test (D5)				
Iron Deposits (B			Thin Muck Su			()	The field of lest (bb)				
	le on Aerial Imagery	(B7)	Gauge or Wel	ll Data (D9)							
Sparsely Vegetat	ted Concave Surface	(B8)	Other (Explain	n in Remark	(s)						
Field Observations:											
Surface Water Presen	t? Yes _		No <u>X</u>	Depth (inc	hes):						
Water Table Present?	Yes	х	No	Depth (inc	hes):	4					
Saturation Present?				Depth (inc	hes):		Wetland Hydrology Presen	t? Yes X	No		
(includes capillary frin				. `	<u> </u>						
Describe Recorded Da	ata (stream gauge, m	onitoring we	ell, aerial photos, pre	vious inspe	ctions), if	available					
Remarks:					-	-	<u> </u>	<u> </u>			
Seepy hillside											

Inaugural South Suburban Airport Site:

Locale: W02SW6
Date: May 1, 2009 30 minutes
By: AECOM; T. Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW6.inv

FLORISTIC QUALITY DATA O NATIVE SPECIES 1 Total Species 0.0 NATIVE MEAN C 0.0 W/Adventives 0.0 NATIVE FQI 0.0 W/Adventives 0.0 NATIVE MEAN W -4.0 W/Adventives AVG: Faculative	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge	0 0 0 0 0 0 0	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Adventive Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge	1 0 0 0 0 0 0 0 0	100.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0
AVG: Faculative		-			-	

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME

PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS

Project/Site:	Inaugural South Suburban Airport	City/County: Will	Sounty Sam	pling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation		State: Illinois Sam	pling Point: W02SW-6 SC-1
Investigator(s):	T. Radke; Robyn West	Section, Townsh	Range: Section 2; T33N; R13E	
Landform (hillside,	terrace, etc.): drainageway		Local relief (concave, con	ivex, none: concave
Slope %: 0	Lat: 41.3729	97593	Long: <u>-87.70675139</u>	Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam and Drummer silty cla	y Ioam	NWI Cla	assification: not mapped; PEM
Are climatic / hydro	ologic conditions on the site typical for this time	e of year?	Yes X No	
Are Vegetation	Soil or hydrology X	Significantly disturbed?	Are "Normal Circumstances" prese	ent? Yes X No No
Are Vegetation	Soil or hydrology	Naturally problematic?	(if needed, explain any answers in	Remarks.)
SUMMARY OF	FINDINGS - Attach site map showii	ng sampling point loc	ions, transects, important featur	es, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes	No X No X	Is the Sampling Area within a Wetland?	Yes No X
Remarks: Grassy tiled dra	inageway; vent observed			
VEGETATION -	· Use scientific names of plants.			
1 2 3	(Plot size:)		Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC Total Number of Dominant	(A)
4 5			Species Across All Strata:	1(B)
Sapling/Shrub Str	Total Cover: ratum (Plot size:)		Percent of Dominant Species That Are OBL, FACW, or FAC:	(A/B)
2 3 4 5	Total Cover:		Prevalence Index Worksheet:	Multiply by: x 1 = 0 x 2 = 0 x 3 = 0
Herb Stratum 1. Phalaris 2 3 4 5	(Plot size:) arundinacea	100 Y F	CW FACU species UPL species	$ \begin{array}{ccc} $
6 7 8 9 10	Total Cover:	100	Hydrophytic Vegetation Indica Dominance Test is >509 Prevalence Index is *3.0 Morphological Adaptatio data in remarks or on a service of the problematic Hydrophytic	6 * ns* (Provide supporting separate sheet)
Woody Vine Stra			*Indicators of hydric soil and wet	0 (1)
1. <u></u> 2. <u></u>	Total Cover:		Hydrophytic Vegetation Present?	YesX No
,	le photo numbers here or on a separate shee n evidence of drainage tile	et.)		

SOIL Sampling Point: W02SW-6 SC-1

Profile Description:	(Describe to the	depth need	ed to document tl	he indicat	or or con	firm the	absence of indicators.)		
Depth	Matrix		Re	edox Featur	rec				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-6	10YR 4/2	99	10YR 7/3	0.5		PL	Silty clay loam	very moist	
			10YR 7/6	0.5		PL			
	10VD E/2				С С		Cille de la como C 15		
6-20	10YR 5/3	60	10YR 5/6	15		M	Silty clay loam: 6-15	moist;	
				15	C	M	Silty clay: 15-20	moist; firm	
					- ——				,
*Type: C=Concentrat	ion, D=Depletion, RN	M=Reduced I	Matrix, CS=Covered	or Coated	Sand Grai	ns. **L	ocation: PL=Pore Lining, M=M	latrix	
Hydric Soil Indicato	ors:						Indicators for Problematic	: Hydric Soils***:	
								•	
Histosol (A1)	A2)		Sandy Gleyed		•)		Coast Prairie Redox (A16		
Histic Epipedon (Black Histic (A3)	A2)		Sandy Redox Stripped Matr				Iron-Manganese Masses Other (Explain in Remark		
Hydrogen Sulfide	e (A4)		Loamy Mucky	. ,	1)			/	
Stratified Layers			Loamy Gleyed		2)				
2 cm Muck (A10)	Dark Surface (A11)		Depleted Mati Redox Dark S	. ,					
Thick Dark Surface			Depleted Dark			***	*Indicators of hydrophytic vege	tation and	
Sandy Mucky Mir			Redox Depres	sions (F8)	,		wetland hydrology must be pr	resent,	
5 cm Mucky Peat	. ,						unless disturbed or problem	atic.	
Restrictive Layer (if	f observed):								
Type:									
Depth (inches):			<u>-</u> -				Hydric Soils Present?	Yes	No X
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (mi	nimum of one is requ	uired; check	all that apply'				Secondary Indicators (minimu	m of two required)	
Surface Water (A	1)		Water-Stained	d Leaves (B	19)		Surface Soil Cracks (B6)		
X High Water Table			Aquatic Fauna		.5)		Drainage Patterns (B10		
Saturation (A3)			True Aquatic				Dry-Season Water Table	(C2)	
Water Marks (B1) Sediment Deposi			Hydrogen Suli Oxidized Rhize			oots (C3)	Crayfish Burrows (C8) Saturation Visible on Aer	ial Imagon, (CO)	
Drift Deposits (B)			Presence of R		_	JUIS (C3)	Geomorphic Position (D2	- , , ,	
Algal Mat or Crus	,		Recent Iron R	eduction in		ls (C6)	FAC-Neutral Test (D5)	,	
Iron Deposits (B			Thin Muck Su	`					
	e on Aerial Imagery (ed Concave Surface (Gauge or Wel Other (Explain						
Field Observations:		(50)	Other (Explain	T III IXCIIIdir					
Surface Water Present			No. ¥	Depth (inc	hoc).				
	_	x		Depth (inc		2"			
Water Table Present?	Yes _						Watland Hudvalani Busas		Na
Saturation Present? (includes capillary fring	_		No <u>X</u>	Depth (inc	nes):		Wetland Hydrology Prese	nt? Yes X	No
Describe Recorded Da		onitoring we	ll, aerial photos, pre	vious inspe	ections), if	available			
Remarks:									
1.5 inches of ra	in in previous 3day	ys probably	accounts for high	n water ta	ble in plo	ot			

Project/Site:	Inaugural South Suburban Airport	City/County: Will Co	unty Sampling Date: 5/1/2009
Applicant/Owner:	Illinois Department of Transportation		State: Illinois Sampling Point: W02SW-6 SC-2
Investigator(s):	T. Radke; Robyn West	Section, Township, R	Range: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): drainageway		Local relief (concave, convex, none: concave
Slope %: 0	Lat: <u>41.372</u>	81837	Long: <u>-87.7062927</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Markham silt loam and Drummer silty cla	y loam	NWI Classification: Not mapped; PEM
Are climatic / hydro	ologic conditions on the site typical for this time	e of year?	Yes <u>X</u> No
Are Vegetation	Soil or hydrologyX_	Significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showi	ng sampling point locatio	ons, transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X	No No	Is the Sampling Area Yes X No
Remarks: Agricultural tile	is present	<u> </u>	
VEGETATION -	Use scientific names of plants.		
Tree Stratum 1 2 3	(Plot size:)	Absolute Dominant Indicat % Cover Species? Statu	
4. <u></u> 5. <u></u>			Species Across All Strata: 1 (B)
Sapling/Shrub St	Total Cover: ratum (Plot size:)		Percent of Dominant Species That Are OBL, FACW, or FAC:
2 3 4 5	Total Cover:		Prevalence Index Worksheet:
Herb Stratum 1. Phalaris 2 3 4 5	(Plot size:) arundinacea	100 Y FACV	FACU species
6 7 8 9 10	Total Cover:	100	Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)		*Indicators of hydric soil and wetland hydrology must be present.
2	Total Cover:		Hydrophytic Vegetation Yes X No Present?
,	le photo numbers here or on a separate she inageway is monoculture of Reed Canary	,	

SOIL Sampling Point: W02SW-6 SC-2

Profile Description:	(Describe to the	depth need	ed to document tl	ne indicato	or or con	firm the	absence of indicators.)		
Depth	Matrix		De	day Faatur					
(Inches)	Matrix Color (moist)	%	Color (moist)	edox Featur %	Type*	Loc**	Texture	Remarks	
0-10	10YR 3/2	95	10YR 5/3	5	D	М	Silty clay loam, Moist; friable	<u> </u>	
10-20	10YR 5/3	60	10YR 5/6	15		M	Silty clay, Moist; firm	<u>-</u>	
10-20	101K 5/5	00					Silty Clay, Moist, IIIII		
			10YR 3/1	15	D	M			
*Type: C=Concentrat	ion. D=Depletion. R	M=Reduced I	Matrix, CS=Covered	or Coated S	Sand Grai	ns. **I	Location: PL=Pore Lining, M=Mat	rix	
Hydric Soil Indicato			,				Indicators for Problematic H		
Tryunc Son Indicato	13.						indicators for Froblematic II	yunc sons .	
Histosol (A1)			Sandy Gleyed)		Coast Prairie Redox (A16)		
Histic Epipedon (Black Histic (A3)	A2)		Sandy Redox Stripped Matr				Iron-Manganese Masses (F Other (Explain in Remarks)		
Hydrogen Sulfide	(A4)		Loamy Mucky	. ,	1)		Other (Explain in Kemarks)		
Stratified Layers			Loamy Gleyed)				
2 cm Muck (A10)	Dark Surface (A11)		X Depleted Mate						
Thick Dark Surface			Depleted Dark		7)	**	*Indicators of hydrophytic vegetat	ion and	
Sandy Mucky Min	neral (S1)		Redox Depres		,		wetland hydrology must be pres	ent,	
5 cm Mucky Peat	` ,						unless disturbed or problemati	c.	
Restrictive Layer (if	observed):								
Type:									
Depth (inches):			-				Hydric Soils Present?	Yes X	No
Remarks:									
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (mi	nimum of one is req	uired; check	all that apply;				Secondary Indicators (minimum	of two required)	
Surface Water (A	.1)		Water-Stained	d Leaves (B	9)		Surface Soil Cracks (B6)		
X High Water Table			Aquatic Fauna	(B13)	,		Drainage Patterns (B10		
Saturation (A3)	`		True Aquatic				Dry-Season Water Table (C	22)	
Water Marks (B1) Sediment Deposit			Hydrogen Suli Oxidized Rhize			oots (C3)	Crayfish Burrows (C8) Saturation Visible on Aerial	Imagery (C9)	
Drift Deposits (B3	` '		Presence of R	educed Iror	n (C4)	` ,	Geomorphic Position (D2)		
Algal Mat or Crus			Recent Iron R		Tilled Soi	ils (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B5	e on Aerial Imagery	(B7)	Thin Muck Su Gauge or Wel	`					
	ed Concave Surface		Other (Explain		s)				
Field Observations:									
Surface Water Present	? Yes		No X	Depth (incl	hes):				
Water Table Present?	Yes	Х		Depth (incl	hes):	12			
Saturation Present?	Yes			Depth (incl			Wetland Hydrology Present	Yes X	No
(includes capillary fring	ge)	•					, , , , ,	<u></u>	
Describe Recorded Da	ta (stream gauge, m	onitoring we	ll, aerial photos, pre	vious inspe	ctions), if	available			
Remarks:		- FOE			-				
rield tile outlet	present nearby (<	SOUTE).							

Project/Site:	Inaugural South Suburban Airport	City/County: _	Nill County	Sampling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02SW-6 SC-3
Investigator(s):	T. Radke; Robyn West	Section, Towr	ıship, Range	: <u>Section 2; T33N; R13E</u>
Landform (hillside,	terrace, etc.): drainageway			Local relief (concave, convex, none:
Slope %: 0	Lat: 41.3727	76566	Long	: <u>-87.7059567</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Markham silt loam and Drummer silty cla	y loam		NWI Classification: PEM
Are climatic / hydro	ologic conditions on the site typical for this time	e of year?	Yes	No
Are Vegetation	Soil or hydrologyX_	Significantly disturbed?	A	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showing	ng sampling point l	ocations, t	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X	No No		Is the Sampling Area Yes X No
Remarks: Drainage tile pre	esent			
VEGETATION -	- Use scientific names of plants.			
<u>Tree Stratum</u> 1 2	(Plot size:)	Absolute Dominant % Cover Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC 2 (A)
3. <u></u> 4. <u></u>				Total Number of Dominant Species Across All Strata: 2 (B)
5. <u></u>	Total Cover:			Percent of Dominant Species
Sapling/Shrub St 1. Salix exi		10Y	OBL	That Are OBL, FACW, or FAC: 100% (A/B)
2. <u></u> 3. <u></u>				Prevalence Index Worksheet:
4. <u></u> 5. <u></u>				OBL species x1 = 0 FACW species x2 = 0
		10		FAC species x 3 =0
1. <i>Phalaris</i> 2 3	(Plot size:) arundinacea	100 Y	FACW	FACU species
4 5				Prevalence Index = B/A = #DIV/0!
6 7 8 9 10	Total Cover:	100		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra				*Indicators of hydric soil and wetland hydrology must be present.
1 2	Total Cover:			Hydrophytic Vegetation Yes X No Present?
Remarks: (Includ	de photo numbers here or on a separate shee	et.)		

SOIL Sampling Point: W02SW-6 SC-3

Profile Description:	(Describe to the d	epth neede	d to document t	he indicate	or or con	firm the	absence of indicators.)		
Depth	Matrix		P	edox Featur	ec				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-20	10YR 2.5/1	98	10YR 7/3	2	С	М	Silty clay loam		
			201111/0					-	
					. ——				
				-					
								-	
*Type: C=Concentral	tion, D=Depletion, RM	I=Reduced M	atrix, CS=Covered	or Coated	Sand Grain	ns. **L	ocation: PL=Pore Lining, M=Ma	trix	
Hydric Soil Indicate	ors:						Indicators for Problematic H	lydric Soils***:	
Histosol (A1)	(A2)	-	Sandy Gleyed)		Coast Prairie Redox (A16)	=12\	
Histic Epipedon (Black Histic (A3)		-	Sandy Redox Stripped Mate				Iron-Manganese Masses (F Other (Explain in Remarks		
Hydrogen Sulfide		-	Loamy Mucky		1)		Other (Explain in Kemarks)	
Stratified Layers		-	Loamy Gleye	d Matrix (F2	.)				
2 cm Muck (A10)		-	Depleted Mat		,				
· •	Dark Surface (A11)	_	X Redox Dark S						
Thick Dark Surfa	• •	-	Depleted Dar		7)	***	Indicators of hydrophytic vegeta		
Sandy Mucky Mir		-	Redox Depre	ssions (F8)			wetland hydrology must be pre-		
5 cm Mucky Pear							unless disturbed or problemat	UC.	
Restrictive Layer (i	f observed):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes X	No
Remarks:								<u> </u>	
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is requ	ired; check a	ll that apply)				Secondary Indicators (minimum	of two required)	
Surface Water (A		_	Water-Staine		9)		Surface Soil Cracks (B6)		
High Water Table	e (A2)	-	Aquatic Faun	` ,	_		Drainage Patterns (B10		
X Saturation (A3)	`	-	True Aquatic				Dry-Season Water Table (C2)	
Water Marks (B1 Sediment Deposit		-	Hydrogen Su Oxidized Rhiz			oote (C3)	Crayfish Burrows (C8) Saturation Visible on Aeria	I Imagony (CO)	
Drift Deposits (B	` '	-	Presence of F	•		JOIS (C3)	Geomorphic Position (D2)	i Imagery (C3)	
Algal Mat or Crus		-	Recent Iron F			ls (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B		-	Thin Muck Su			(,			
Inundation Visible	e on Aerial Imagery (B7)	Gauge or We	ll Data (D9)					
Sparsely Vegetat	ed Concave Surface (B8)	Other (Explai	in in Remark	s)				
Field Observations:									
Surface Water Present	t? Yes		No X	Depth (inc	hes):				
Water Table Present?	Yes	X	No	Depth (inc	hes):	18			
Saturation Present?	Yes	X	No	Depth (inc	hes):	11	Wetland Hydrology Present	t? Yes X	No
(includes capillary frin	ge)								
Describe Recorded Da	ita (stream gauge, mo	onitoring well,	, aerial photos, pre	evious inspe	ctions), if	available			
Remarks:						_			·

Project/Site:	Inaugural South Suburban Airport	City/County: Wi	ill County	Sampling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02SW-6 SC-4
Investigator(s):	T. Radke; Robyn West	Section, Townsl	hip, Range: <u>د</u>	Section 2; T33N; R13E
Landform (hillside,	terrace, etc.): drainageway			Local relief (concave, convex, none: concave
Slope %: 0	Lat: <u>41.372</u>	71166	Long:	-87.70554156 Datum: NAD83 Illinois East
Soil Unit Name:	Markham silt loam and Drummer silty cla	ıy loam		NWI Classification: UPL
Are climatic / hydro	ologic conditions on the site typical for this time	ne of year?	Yes _	X No
Are Vegetation	Soil or hydrology X	Significantly disturbed?	Are	e "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	(if	needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showi	ng sampling point loo	cations, tra	ansects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes	No X No X		Is the Sampling Area YesNo_X_
Remarks: Drainage tile pre	esent			
VEGETATION -	Use scientific names of plants.			
Tree Stratum 1 2 3	(Plot size:)		Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC
4. 5. 				Species Across All Strata:(B)
Sapling/Shrub Str	Total Cover:			Percent of Dominant Species That Are OBL, FACW, or FAC:
2 3 4 5	Total Cover:			Prevalence Index Worksheet:
2. Bromus 3 4	(Plot size:) arundinacea inermis	90 Y 10 N	FACW	FACU species x 4 = 0 UPL species x 5 = 0 Column Totals 0 (A) 0 (B) Prevalence Index = B/A = #DIV/0!
5 6 7 8 9 10	Total Cover:	100		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra				*Indicators of hydric soil and wetland hydrology must be present.
1 2	Total Cover:		١ ا	Hydrophytic Vegetation Yes X No Present?
Remarks: (Includ	le photo numbers here or on a separate she	et.)		

SOIL Sampling Point: W02SW-6 SC-4

Profile Description:	(Describe to the	depth neede	d to document t	he indicat	or or con	firm the	absence of indicators.)		
Depth	Matrix		Re	edox Featur	es				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-12	10YR 4/2	100					Silty clay loam	Moist; friable	
12-23	10YR 4/2	60	10YR 5/6	15		М	Silty clay	Moist; firm	
	101111/12		<u> </u>				oncy ciay	110130, 11111	-
			10YR 5/1	15		M			
						-			
*Type: C=Concentra	tion, D=Depletion, RI	M=Reduced M	latrix, CS=Covered	or Coated	Sand Grain	ns. **l	ocation: PL=Pore Lining, M=M	atrix	
Hydric Soil Indicate	ors:						Indicators for Problematic	Hydric Soils***:	
Histosol (A1) Histic Epipedon	(42)	-	Sandy Gleyed Sandy Redox)		Coast Prairie Redox (A16 Iron-Manganese Masses		
Black Histic (A3)		-	Stripped Matr				Other (Explain in Remark		
Hydrogen Sulfide		-	Loamy Mucky						
Stratified Layers 2 cm Muck (A10		-	Loamy Gleyed Depleted Mat		2)				
	Dark Surface (A11)	-	Redox Dark S						
Thick Dark Surfa	` ,	-	Depleted Dar	k Surface (F	7)	**:	*Indicators of hydrophytic veget	ation and	
Sandy Mucky Min		-	Redox Depres	ssions (F8)			wetland hydrology must be pro unless disturbed or problema		
5 cm Mucky Pea Restrictive Layer (i							unless disturbed or problem	duc.	
Restrictive Layer (1	i observed):								
Type:									
Depth (inches):							Hydric Soils Present?	Yes	No X
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is req	uired; check a	ill that apply)				Secondary Indicators (minimum	m of two required)	
Surface Water (A		-	Water-Stained		9)		Surface Soil Cracks (B6)		
High Water Table Saturation (A3)	e (A2)	-	Aquatic Fauna True Aquatic	` ,)		Drainage Patterns (B10 Dry-Season Water Table	(C2)	
Water Marks (B1	1)	-	Hydrogen Sul				Crayfish Burrows (C8)	(62)	
Sediment Depos	` '	-	Oxidized Rhiz		-	oots (C3)	Saturation Visible on Aeri		
Drift Deposits (B Algal Mat or Crus		-	Presence of R Recent Iron R			lc (C6)	Geomorphic Position (D2) FAC-Neutral Test (D5))	
Iron Deposits (B		-	Thin Muck Su		Tilled 301	13 (CO)	TAC-Neutral Test (D3)		
Inundation Visib	le on Aerial Imagery		Gauge or We						
	ted Concave Surface	(B8)	Other (Explain	n in Remark	(s)				
Field Observations:									
Surface Water Presen	_			Depth (inc	-				
Water Table Present?				Depth (inc	-				
Saturation Present?			No <u>X</u>	Depth (inc	hes):		Wetland Hydrology Preser	nt? Yes	No X
(includes capillary frin Describe Recorded Da		onitorina well	, aerial photos, pre	evious inspe	ctions), if	available			
	, , ,	J		•	,,				
Remarks:									
I									

Site: Inaugural South Suburban Airport
Locale: W02SW7
Date: May 1, 2009 30 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW7.inv

14 NA: 20 To 2.1 NA: 1.5 W, 8.0 NA: 6.7 W, -1.2 NA: -0.7 W,	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	14 0 1 0 0 5 0 4 0 1 3 0	70.0% 0.0% 5.0% 0.0% 0.0% 25.0% 0.0% 25.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Advent Tree Shrub W-Vine H-Vine P-Forl B-Forl A-Forl P-Gra: A-Gra: P-Sede A-Sede	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.0% 0.0% 0.0% 0.0% 5.0% 10.0% 0.0% 0.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACHMIL	O ACHILLEA MILLEFOLIU	JM		3	FACU	Ad P-Forb	YARROW
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
BARVUL	0 BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
ELEERY	2 Eleocharis erythrop	oda		-5	OBL	Nt P-Sedge	RED-ROOTED SPIKE RUSH
EPICOL	3 Epilobium coloratum	n		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
ERIPHI	4 Erigeron philadelph	nicus		-3	FACW	Nt P-Forb	MARSH FLEABANE
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
PHAARU	O PHALARIS ARUNDINACE	EA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	O Plantago rugelii			0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	O POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
RANABO	0 Ranunculus abortivu	ıs		-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUBALL	3 Rubus allegheniensi	S		2	FACU+	Nt Shrub	COMMON BLACKBERRY
SCIATR	4 Scirpus atrovirens			-5	OBL	Nt P-Sedge	DARK GREEN RUSH
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLNEM	4 Solidago nemoralis			5	UPL	Nt P-Forb	OLD-FIELD GOLDENROD

Project/Site:	Inaugural South Suburban Airport	(City/County:	Will County	Sampling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation				State: Illinois Sampling Point: W02SW-7 SC-2
Investigator(s):	T. Radke; Robyn West		Section, Tow	nship, Range	e: <u>Section 2; T33N; R13E</u>
Landform (hillside,	terrace, etc.): plain				Local relief (concave, convex, none: concave
Slope %: 0	Lat: <u>41.372</u>	98062		Long	g: -87.70452396 Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Ashkum silty clay loam				NWI Classification: Not mapped; PEM
Are climatic / hydro	ologic conditions on the site typical for this tim	e of year?		Yes	X No
Are Vegetation	Soil or hydrology	Signif	ficantly dist	urbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Natu	rally probler	matic?	(if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map showing	ng sampl	ing point	locations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent?* Yes *	No No No			Is the Sampling Area Yes X No
	ken due to inundation; Vegetation very sp	parsely scat	tered in po	nded depres	sion
VEGETATION -	- Use scientific names of plants.				
Tree Stratum 1	(Plot size:)		Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC3 (A)
2 3					Total Number of Dominant
4 5					Species Across All Strata:
Sapling/Shrub St	Total Cover: ratum (Plot size:)				Percent of Dominant Species That Are OBL, FACW, or FAC:
1. <u></u> 2					Prevalence Index Worksheet:
3. 4. 					Total % Cover of Multiply by: OBL species x 1 = 0
5					FACW species x 2 = 0
	Total Cover:				FAC species x 3 =0
Herb Stratum 1. Echinoc	(Plot size:) chloa crusgalli	10	Υ	FACW	FACU species
	arundinacea	5		FACW	Column Totals 0 (A) 0 (B)
	ulus abortivus um coloratum	<u>5</u> 		FACW OBL	Prevalence Index = B/A = #DIV/0!
5. Agrostis	11: -	25	<u>Y</u>	FACW	
6. <u></u> 7. 					Hydrophytic Vegetation Indicators: Dominance Test is >50%
8					Prevalence Index is *3.0*
9					Morphological Adaptations* (Provide supporting
10. <u></u>					data in remarks or on a separate sheet)
	Total Cover:	55			Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)				*Indicators of hydric soil and wetland hydrology must be present.
2	Total Cover:				Hydrophytic Vegetation Present? Yes X No
Remarks: (Include	de photo numbers here or on a separate shee	et.)			1

SOIL Sampling Point: W02SW-7 SC-2

epth	Mai				Redox Features		1 * *	Tarabana	Domenico		
nches)	Color (moist)	%		or (moist)	<u></u> %	Type*	LOC**	Texture	Remarks		
		-						-			
	-										
	-										
	· 	_									
					- -						
ype: C=Concentra	ation, D=Depletion	, RM=Redu	ced Matrix	CS=Covere	d or Coated Sa	and Grair	ıs. **L	ocation: PL=Pore Lining, M=	=Matrix		
dric Soil Indicat	tors:							Indicators for Problemat	tic Hydric Soils	***	
Histosol (A1)				Sandy Gleve	ed Matrix (S4)			Coast Prairie Redox (A	16)		
Histic Epipedon	(A2)			Sandy Redo:				Iron-Manganese Masse	es (F12)		
Black Histic (A3	s)			Stripped Ma	trix (S6)			Other (Explain in Rema	arks)		
Hydrogen Sulfic					y Mineral (F1)						
Stratified Layer:					ed Matrix (F2)						
2 cm Muck (A10	u) · Dark Surface (A1	1)		Depleted Ma	Surface (F6)						
Thick Dark Surf	`	1)			rk Surface (F7	7)	***	Indicators of hydrophytic ve	getation and		
Sandy Mucky M	. ,			Redox Depre	•	,		wetland hydrology must be	-		
5 cm Mucky Pe				·	` ,			unless disturbed or proble			
estrictive Layer ((if observed):										
Type:											
Depth (inches):								Hydric Soils Present?		Yes *	No
Mapped hydric	c (Ashkum silty e e soil core due to		ter.								
Mapped hydrid *Not able to tak			ter.								
Mapped hydric *Not able to tak	e soil core due to		ter.								
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog	e soil core due to y Indicators:	standing wa		t apply)				Secondary Indicators (minir	num of two requ	uired)	
Mapped hydrio *Not able to tak IYDROLOGY /etland Hydrolog	y Indicators: minimum of one is	standing wa	eck all tha		ed Leaves (B9))		,	•	uired)	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r	y Indicators: ninimum of one is (A1)	standing wa	eck all tha		ed Leaves (B9) na (B13))		Secondary Indicators (minir Surface Soil Cracks (Bu	6)	uired)	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (k High Water Tab K Saturation (A3)	y Indicators: minimum of one is (A1) le (A2)	standing wa	eck all tha	Water-Stain Aquatic Faul True Aquatic	na (B13) c Plants (B14)	•		Surface Soil Cracks (Be Drainage Patterns (B1 Dry-Season Water Tab	5) 0	uired)	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (A High Water Tab Saturation (A3) Water Marks (B	y Indicators: minimum of one is (A1) lele (A2)	standing wa	neck all tha	Water-Stain Aquatic Faul True Aquatic Hydrogen Si	na (B13) : Plants (B14) ulfide Odor (C1	1)		Surface Soil Cracks (Bt Drainage Patterns (B1) Dry-Season Water Tab Crayfish Burrows (C8)	6) 0 0le (C2)	•	
*Not able to tak IYDROLOGY Vetland Hydrolog rimary Indicators (r X Surface Water (A High Water Tab X Saturation (A3) Water Marks (B Sediment Depo	y Indicators: minimum of one is (A1) ole (A2) sits (B2)	standing wa	eck all tha	Water-Stain Aquatic Fau True Aquatic Hydrogen Si Oxidized Rhi	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on	, 1) Living Ro	ots (C3)	Surface Soil Cracks (BI Drainage Patterns (BI) Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A	6) 0 ole (C2) nerial Imagery (C	•	
*Not able to tak IYDROLOGY Vetland Hydrolog rimary Indicators (r X Surface Water (A High Water Tat X Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (i	y Indicators: minimum of one is (A1) ole (A2) sits (B2) B3)	standing wa	eck all tha	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron) Living Ro (C4)		Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r X Surface Water (AC) High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (Algal Mat or Cri	y Indicators: minimum of one is (A1) ole (A2) sits (B2) B3) ust (B4)	standing wa	eck all tha	Water-Stain Aquatic Faul True Aquatic Hydrogen Si Oxidized Rhi Presence of Recent Iron	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1) Living Ro (C4)		Surface Soil Cracks (BI Drainage Patterns (BI) Dry-Season Water Tab Crayfish Burrows (C8) Saturation Visible on A	6) 0 ole (C2) verial Imagery (C D2)	•	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (High Water Tat C Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I	y Indicators: minimum of one is (A1) ole (A2) sits (B2) B3) ust (B4)	required; ch	eck all tha	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1) Living Ro (C4)		Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visil	y Indicators: minimum of one is (A1) ble (A2) (B1) (B1) (B2) (B3) (B4) (B5)	required; ch	eck all tha	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1 urface (C7)	, Living Ro (C4) Tilled Soil		Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
*Not able to tak *YDROLOGY *Vetland Hydrolog imary Indicators (r *Surface Water (High Water Tat Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visil Sparsely Vegeta	y Indicators: minimum of one is (A1) ble (A2) st) st) sts(B2) B3) ust (B4) B5) ble on Aerial Imagated Concave Surf	required; ch	eck all tha	Water-Stain Aquatic Fau True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1 curface (C7) ell Data (D9)	, Living Ro (C4) Tilled Soil		Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
*Not able to tak *YDROLOGY *Vetland Hydrolog imary Indicators (r *Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (I Inundation Visil Sparsely Vegetz eld Observations	y Indicators: minimum of one is (A1) ble (A2) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf	required; chery (B7) ace (B8)	eck all tha	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1 urface (C7) ell Data (D9) in in Remarks Depth (inche	1) Living Ro (C4) Tilled Soil		Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
Mapped hydric *Not able to tak YDROLOGY Yetland Hydrolog imary Indicators (r C Surface Water (C High Water Tab. C Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cr. Iron Deposits (I Inundation Visil Sparsely Vegetz eld Observations urface Water Preservence	y Indicators: minimum of one is (A1) ble (A2) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: nt? Ye ? Ye	required; chery (B7) ace (B8)	eck all tha	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1 urface (C7) ell Data (D9) in in Remarks Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _	s (C6)	Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (A) K Saturation (A3) Water Marks (B) Sediment Deposits (I) Algal Mat or Cri Iron Deposits (I) Inundation Visil Sparsely Vegeta ield Observations urface Water Present aturation Present?	y Indicators: minimum of one is (A1) ble (A2) sits (B2) B3) ust (B4) B5) ble on Aerial Image ated Concave Surf s: nt? Ye Ye	required; chery (B7) ace (B8)	eck all tha	Water-Staine Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in 1 urface (C7) ell Data (D9) in in Remarks Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _	s (C6) ~3-4	Surface Soil Cracks (BGD prainage Patterns (B1) Dry-Season Water Tal Crayfish Burrows (C8) Saturation Visible on AGE Geomorphic Position (I	6) 0 ole (C2) verial Imagery (C D2)	•	No_
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K High Water Tab K Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (I Inundation Visil Sparsely Vegeta ield Observations urface Water Present aturation Present? acturation Present?	y Indicators: minimum of one is (A1) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: mt? Ye ? Ye nge)	required; chery (B7) ace (B8)	No _ No _ No _	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) ain in Remarks Depth (inche Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _es): _	~3-4 surface surface	Surface Soil Cracks (BG Drainage Patterns (B1) Dry-Season Water Tac Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 ole (C2) verial Imagery (C D2)		No_
Mapped hydric *Not able to tak *YDROLOGY etland Hydrolog imary Indicators (r Surface Water (r High Water Tab Sediment Depo Drift Deposits (r Algal Mat or Crr Iron Deposits (r Inundation Visil Sparsely Vegeta eld Observations inface Water Present turation Present?	y Indicators: minimum of one is (A1) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: mt? Ye ? Ye nge)	required; chery (B7) ace (B8)	No _ No _ No _	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) ain in Remarks Depth (inche Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _es): _	~3-4 surface surface	Surface Soil Cracks (BG Drainage Patterns (B1) Dry-Season Water Tac Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 ole (C2) verial Imagery (C D2)		No _
Mapped hydric *Not able to tak YDROLOGY etland Hydrolog imary Indicators (r Surface Water (Company) Water Marks (Bound Sediment Depoor Drift Deposits (Ioundation Visiles) Sediment Depoor Iron Deposits (Ioundation Visiles) Sparsely Vegeta eld Observations inface Water Present inturation Present? includes capillary friescribe Recorded Deservation	y Indicators: minimum of one is (A1) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: mt? Ye ? Ye nge)	required; chery (B7) ace (B8)	No _ No _ No _	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) ain in Remarks Depth (inche Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _es): _	~3-4 surface surface	Surface Soil Cracks (BG Drainage Patterns (B1) Dry-Season Water Tac Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 ole (C2) verial Imagery (C D2)		No_
Mapped hydric *Not able to tak IYDROLOGY /etland Hydrolog rimary Indicators (r K Surface Water (A) K Saturation (A3) Water Marks (B) Sediment Deposits (I) Algal Mat or Cri Iron Deposits (I) Inundation Visil Sparsely Vegeta ield Observations urface Water Present aturation Present?	y Indicators: minimum of one is (A1) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: mt? Ye ? Ye nge)	required; chery (B7) ace (B8)	No _ No _ No _	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) ain in Remarks Depth (inche Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _es): _	~3-4 surface surface	Surface Soil Cracks (BG Drainage Patterns (B1) Dry-Season Water Tac Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 ole (C2) verial Imagery (C D2)		No_
Mapped hydric *Not able to tak YDROLOGY etland Hydrolog imary Indicators (r Surface Water (Company) Water Marks (Bound Sediment Depoor Drift Deposits (Ioundation Visiles) Sediment Depoor Iron Deposits (Ioundation Visiles) Sparsely Vegeta eld Observations inface Water Present inturation Present? includes capillary friescribe Recorded Deservation	y Indicators: minimum of one is (A1) sits (B2) B3) ust (B4) B5) ble on Aerial Imag ated Concave Surf s: mt? Ye ? Ye nge)	required; ch	No _ No _ No _	Water-Stain Aquatic Faul True Aquatic Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Gauge or W Other (Expla	na (B13) c Plants (B14) ulfide Odor (C1 izospheres on Reduced Iron Reduction in T urface (C7) ell Data (D9) ain in Remarks Depth (inche Depth (inche	1) Living Rc (C4) Tilled Soil s) es): _es): _es): _	~3-4 surface surface	Surface Soil Cracks (BG Drainage Patterns (B1) Dry-Season Water Tac Crayfish Burrows (C8) Saturation Visible on A Geomorphic Position (FAC-Neutral Test (D5)	6) 0 ole (C2) verial Imagery (C D2)		No _

Project/Site:	Inaugural South Suburban Airport	City/County: \(\)	Nill County	Sampling Date: <u>5/1/2009</u>
Applicant/Owner:	Illinois Department of Transportation			State: Illinois Sampling Point: W02SW-7U S1
Investigator(s):	T. Radke; Robyn West	Section, Towr	ıship, Range	: <u>Section 2; T33N; R13E</u>
Landform (hillside,	terrace, etc.): plain			Local relief (concave, convex, none: flat
Slope %: 1	Lat: 41.372	298062	Long	: <u>-87.70452396</u> Datum: <u>NAD83 Illinois East</u>
Soil Unit Name:	Beecher silt loam and Drummer silty cla	y loam		NWI Classification: UPL
Are climatic / hydro	ologic conditions on the site typical for this tir	ne of year?	Yes	No
Are Vegetation	Soil or hydrology	Significantly disturbed?	/	Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally problematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map show	ing sampling point le	ocations, f	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog	ent? Yes X			Is the Sampling Area within a Wetland? Yes NoX
Remarks:				
VEGETATION -	- Use scientific names of plants.			
1. Pinus str 2 3 4	(Plot size:) robus (planted)	Absolute Dominant Species? 50 Planted	Indicator Status FACU	Dominance Test Worksheet: Number of Dominant Species That Are OBL, FACW, or FAC Total Number of Dominant Species Across All Strata: 3 (B)
5. <u></u> <u>Sapling/Shrub Str</u> 1	Total Cover:	50		Percent of Dominant Species That Are OBL, FACW, or FAC:
2 3 4 5	Total Cover:			Prevalence Index Worksheet: Total % Cover of Multiply by: OBL species x 1 = 0 FACW species x 2 = 0 FAC species x 3 = 0 FACU species x 4 = 0
	a sativa millefolium o nemoralis	70 Y 25 Y 10 N 10 N 5 N	UPL FACU UPL UPL	UPL species $x = 5 = 0$ Column Totals $0 = 0$ (A) $0 = 0$ (B) Prevalence Index = B/A = #DIV/0!
6 7 8 9 10	Total Cover:	120		Hydrophytic Vegetation Indicators: Dominance Test is >50% Prevalence Index is *3.0* Morphological Adaptations* (Provide supporting data in remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain)
Woody Vine Strat	tum (Plot size:)			*Indicators of hydric soil and wetland hydrology must be present.
2	Total Cover:			Hydrophytic Vegetation Present? No X X
Remarks: (Include	de photo numbers here or on a separate she	eet.)		

SOIL Sampling Point: **W02SW-7U S1** Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Matrix Redox Features (Inches) Loc** Texture 10YR 3/1 0-8 100 10YR 5/2 80 10Yr 4/1 10 10YR 5/6 10 *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Stratified Layers (A5) Depleted Matrix (F3) 2 cm Muck (A10) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present?** Yes X No Remarks:

HYDROLOGY							
Wetland Hydrology Indicato	rs:						
Primary Indicators (minimum of	one is required; check	Secondary Indicators (minimum of two 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) Iron Deposits (B5) Iron Deposits (B5) Iron Deposits (B5) Sparsely Vegetated Concave Surface (B8) Water Fauna (B13) True Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)			Surface Soil Cracks (B6) Drainage Patterns (B10 Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Image Geomorphic Position (D2) FAC-Neutral Test (D5)	ry (C9)			
Field Observations:							
Surface Water Present?	Yes	No _	Х	Depth (inches):			
Water Table Present?	Yes	No _	Х	Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	No _	Х	Depth (inches):	Wetland Hydrology Present?	Yes	No X
	gauge, monitoring we	ell. aeri	ial photos.	previous inspections), if available	1		
,	33.,	,	. , ,	, ,			
Remarks:							

Project/Site:	Inaugural South S	uburban Airport		City/County:	Will County		Sampling Date:	4-May-09	
Applicant/Owner:	Illinois Department	of Transportation				State: Illinois	Sampling Point:	W02SW-8	
Investigator(s):	T. Radke; Robyn W	est		Section, Tow	nship, Range	e: Section 2; T33N; R13E			
Landform (hillside,	terrace, etc.):	Berm				Local relief (conca	ave, convex, none:	convex	
Slope %: 3		Lat:			Long	J:		Datum: NAD83	Illinois East
Soil Unit Name:	Markham silt loam						NWI Classification:	Upland	
Are climatic / hydro	ologic conditions on the	e site typical for this tim	e of year?		Yes	X No			
Are Vegetation	Soil	or hydrology X	Significant	ly disturbed?		Are "Normal Circumstance	s" present?	Yes X	No
		or hydrology				(if needed, explain any ans	wers in Remarks.)		
						transects, important	features, etc.		
	ent? (no soil core) gy Present? ture visible on NRCS	Yes Yes Yes Yes Yes aerial photos; appear te dominance of upland	No No ars to be lo	X cation of dra		Is the Sampling Area within a Wetland?	Yes	No_	<u>x</u>
VEGETATION - Tree Stratum 1.	- Use scientific na	•		Dominant Species?	Indicator Status	Dominance Test Works Number of Dominant Spo That Are OBL, FACW, or	ecies	0 (A)	
2. 3						Total Number of Domina	·		
4. <u></u> 5						Species Across All Strata		(B)	
J		Total Cover:				Percent of Dominant Spe	ecies		
Sapling/Shrub St	ratum (Plot size:)				That Are OBL, FACW, or	r FAC:	0% (A/B)	
2 3						Prevalence Index Work Total % Cover of	sheet: Multiply by:		
4. 5. 						OBL species FACW species	x 1 = x 2 =	0	
J. <u></u>		Total Cover:				FAC species		0	
1. Bromus 2. 3. 4.	(Plot size:inermis)	90	Y	UPL		x 4 = x 5 = (A)	0 0 0 (B)	
5. 6. 7 8 9 10 Woody Vine Stra 1	t <u>um</u> (Plot size:	Total Cover:	90			data in remarks of	is >50% x is *3.0* daptations* (Providor or on a separate shor ophytic Vegetation	eet) (Explain)	
2		Total Cover:				Hydrophytic Vegetation Present?	Yes	No _	x
Remarks: (Include	de photo numbers her	e or on a separate shee	et.)						

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02SW-8 Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Depth Redox Features (Inches) Loc** Texture *Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. **Location: PL=Pore Lining, M=Matrix **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils***: Histosol (A1) Sandy Gleyed Matrix (S4) Coast Prairie Redox (A16) Histic Epipedon (A2) Sandy Redox (S5) Iron-Manganese Masses (F12) Black Histic (A3) Stripped Matrix (S6) Other (Explain in Remarks) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) Stratified Layers (A5) Loamy Gleyed Matrix (F2) 2 cm Muck (A10) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Redox Dark Surface (F6) Thick Dark Surface (A12) Depleted Dark Surface (F7) ***Indicators of hydrophytic vegetation and Sandy Mucky Mineral (S1) Redox Depressions (F8) wetland hydrology must be present, unless disturbed or problematic. 5 cm Mucky Peat or Peat (S3) Restrictive Layer (if observed): Type: Depth (inches): **Hydric Soils Present? *** Yes No Hydric soils are not mapped. *No soil core taken due to total dominance of upland veg and lack of wetland hydrology. **HYDROLOGY** Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Secondary Indicators (minimum of two required) Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) High Water Table (A2) Aquatic Fauna (B13) Drainage Patterns (B10 Saturation (A3) True Aquatic Plants (B14) Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) Drift Deposits (B3) Presence of Reduced Iron (C4) Geomorphic Position (D2) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) FAC-Neutral Test (D5) Iron Deposits (B5) Thin Muck Surface (C7) Gauge or Well Data (D9) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) **Field Observations:** Surface Water Present? Water Table Present? Depth (inches): Depth (inches): Wetland Hydrology Present? Saturation Present? No Yes No X (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available Remarks: Linear pattern of raised berm observed on NRCS slide.

Site: Inaugural South Suburban Airport

Locale: W02SW9
Date: May 4, 2009 30 minutes
By: AECOM; T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W02SW9.inv

16 NA 25 3 2.4 NA 1.6 V 9.8 NA 7.8 V -0.7 NA 0.0 V	W/Adventives ATIVE FQI W/Adventives	Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge	3 2 0 0 4 0 4 1 0 1	0.0% 16.0% 4.0% 0.0% 4.0% 0.0%	Tree Shrub W-Vin H-Vin P-For B-For A-For A-Gra A-Gra P-Sed	b 3 b 1 b 1 ss 2	0.0% 12.0% 4.0% 4.0% 8.0% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ARCMIN	0 ARCTIUM MINUS			5	UPL	Ad B-Forb	COMMON BURDOCK
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CHEALB	0 CHENOPODIUM ALBUM			1	FAC-	Ad A-Forb	LAMB'S QUARTERS
CIRARV	0 CIRSIUM ARVENSE			5	UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
EQUHYE	3 Equisetum hyemale			-2	FACW-	Cryptogam	TALL SCOURING RUSH
FRAPES	1 Fraxinus pennsylva	nica subintege	rrima	0	FAC	Nt Tree	GREEN ASH
GALAPA	1 Galium aparine			3	FACU	Nt A-Forb	ANNUAL BEDSTRAW
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GEULAT	2 Geum laciniatum tr	ichocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grosses	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDINAC	EA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
QUEPAU	8 Quercus palustris			-3	FACW	Nt Tree	PIN OAK
RANABO	0 Ranunculus abortiv	us		-2	FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RHACAT	0 RHAMNUS CATHARTICA			3	FACU	Ad Shrub	COMMON BUCKTHORN
ROSMUL	0 ROSA MULTIFLORA			3	FACU	Ad Shrub	MULTIFLORA ROSE
RUBALL	3 Rubus allegheniens	is		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK
TAROFF	0 TARAXACUM OFFICINA	LE		3	FACU	Ad P-Forb	COMMON DANDELION
VIOSOR	3 Viola sororia			1	FAC-	Nt P-Forb	COMMON BLUE VIOLET

Project/Site:	Inaugural South Suburban Airpo	rt	_City/County:	Will County	Sampling Date: 4-May-09
Applicant/Owner:	Illinois Department of Transportati	ion			State: Illinois Sampling Point: W02SW-9 SC-1
Investigator(s):	T. Radke; Robyn West		_Section, Tow	nship, Range	: Section 2; T33N; R13E
Landform (hillside,	terrace, etc.):				Local relief (concave, convex, none:
Slope %:	Lat: _			Long	Datum: NAD83 Illinois East
Soil Unit Name:					NWI Classification: PEM
Are climatic / hydro	ologic conditions on the site typical for	this time of year?		Yes	No
Are Vegetation	Soil or hydrology	X Significan	tly disturbed?		Are "Normal Circumstances" present? Yes X No
Are Vegetation	Soil or hydrology	Naturally	problematic?	((if needed, explain any answers in Remarks.)
SUMMARY OF	FINDINGS - Attach site map s	showing samp	ling point	locations,	transects, important features, etc.
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolog Remarks:	ent? Yes gy Present? Yes	X No X No X No			Is the Sampling Area within a Wetland? Yes X No
	plantation; ID'd on NRCS review				
VEGETATION -	- Use scientific names of plan				
Tree Stratum	(Plot size:)	% Cover	Dominant Species?	Indicator Status	Dominance Test Worksheet: Number of Dominant Species
	m distichum (Planted)	<u>50</u> 25	Planted Y	FACW	That Are OBL, FACW, or FAC3(A)
3. <u></u> 4					Total Number of Dominant3(B) Species Across All Strata: (B)
5					
Sapling/Shrub St	Total C ratum (Plot size:		=		Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
1. 2	(i. 101 0 12 0 1				Prevalence Index Worksheet:
3			·		Total % Cover of Multiply by:
4. <u></u> 5. 					OBL species
J	Total C	Cover:			FAC species
Herb Stratum	(Plot size:		=		FACU species x 4 = 0
	ciniatum	15	Y	FACW	UPL species x 5 = 0
Cyperus Rumex of	esculentus	<u>10</u> 5	- <u>Y</u> N	FACW FACW	Column Totals (A) (B)
4. Helianth	us grosseserratus	5	N	FACW	Prevalence Index = B/A = #DIV/0!
5. 6.					Hydrophytic Vegetation Indicators:
7. <u></u> 8. 					Dominance Test is >50% Prevalence Index is *3.0*
9					Morphological Adaptations* (Provide supporting
10					data in remarks or on a separate sheet)
	Total 0	Cover: <u>35</u>	_		Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stra	tum (Plot size:)			*Indicators of hydric soil and wetland hydrology must be present.
1. <u></u> 2					Hydrophytic
	Total (Cover:	_		Vegetation Yes X No
Remarks: (Includ	de photo numbers here or on a separa	ate sheet.)			

US Army Corps of Engineers

Midwest Region - Interim Version

SOIL Sampling Point: W02SW-9 SC-1

Profile Description:	(Describe to the d	lepth needed	to document th	ne indicato	r or con	firm the	absence of indicators.)		
Depth	Matrix		Re	dox Feature	96				
(Inches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-25	10YR 2/1	100					clay loam	Moist, blocky	
								110004 510014	
						-			
								-	
*Type: C=Concentrat	tion D-Depletion PM	1-Deduced Ma	triv CS-Covered	or Coated 9	Sand Grai		Location: PL=Pore Lining, M=Mai	triv	
Hydric Soil Indicate		i=Reduced Ma	uix, cs=covered	or coated s	dia Giai	113. L	Indicators for Problematic F		
nyunc son mulcate	лз.						indicators for Problematic r	Tyuric Solis · · · .	
Histosol (A1)		_	Sandy Gleyed				Coast Prairie Redox (A16)		
Histic Epipedon (_	Sandy Redox				Iron-Manganese Masses (F		
Black Histic (A3) Hydrogen Sulfide		-	Stripped Matri Loamy Mucky	. ,)		Other (Explain in Remarks)	
Stratified Layers		_	Loamy Gleyed						
2 cm Muck (A10)	,	_	Depleted Matr	. ,					
Depleted Below I Thick Dark Surfa	Dark Surface (A11)	_	Redox Dark Some Depleted Dark		7)	***	*Indicators of hydrophytic vegeta	ation and	
Sandy Mucky Mir	, ,	_	Redox Depres		,,		wetland hydrology must be pre-		
5 cm Mucky Peat		_		` ,			unless disturbed or problemat		
Restrictive Layer (in	f observed):								
Times									
Type: Depth (inches):							Hydric Soils Present?	Yes X	No
Remarks:							,		
T.C.T.C.T.C.T									
HYDROLOGY									
Wetland Hydrology	Indicators:								
Primary Indicators (m	inimum of one is requ	ired; check all	that apply)				Secondary Indicators (minimum	of two required)	
Surface Water (A	11)		Water-Stained	l Leaves (RO	2)		Surface Soil Cracks (B6)		
High Water Table		_	Aquatic Fauna		,,		Drainage Patterns (B10		
Saturation (A3)	` ,		True Aquatic I				Dry-Season Water Table (C2)	
Water Marks (B1		_	Hydrogen Sulf			note (C3)	Crayfish Burrows (C8) Saturation Visible on Aeria	I Imagan, (CO)	
Sediment Deposi Drift Deposits (B.		_	Oxidized Rhize Presence of R			JUIS (C3)	X Geomorphic Position (D2)	i Imagery (C3)	
Algal Mat or Crus	,	_	Recent Iron R	eduction in		ls (C6)	FAC-Neutral Test (D5)		
Iron Deposits (B			Thin Muck Su						
	le on Aerial Imagery (ted Concave Surface (Gauge or Wel Other (Explain		s)				
Field Observations:	`	20) <u>21</u>							
Surface Water Present		N	o X	Depth (inch	nes).				
Water Table Present?	Yes	 N		Depth (inch					
Saturation Present?	Yes	N		Depth (inch	-		Wetland Hydrology Present	t) Vec V	No
(includes capillary frin		IN	~ <u> </u>	Depai (iiid			caana nyarology rieselli	t? Yes X	
Describe Recorded Da		nitoring well,	aerial photos, pre	vious inspec	ctions), if	available			
Remarks:									
NRCS ID									

Project/Site:	Inaugural South Suburban Airp	oort	City/County: Will County		Sampling Date: 4-May-09				
Applicant/Owner:	Illinois Department of Transporta	ation			State: Illinois Sam	pling Point:	W02SW-9 S	C-2	
Investigator(s):	T. Radke; Robyn West		_Section, Tow	ınship, Range	e: Section 2; T33N; R13E				
Landform (hillside,	terrace, etc.): drainageway				Local relief (concave, cor	nvex, none:	concave		
Slope %: 1	Lat	·		Long	J:		Datum: N	AD83 IIIi	inois East
Soil Unit Name:	Ashkum silty clay loam				NWI Cla	ssification:	UPL		
Are climatic / hydro	ologic conditions on the site typical fo	or this time of year	?	Yes	X No				
Are Vegetation	Soil or hydrology	X Significa	intly disturbed?		Are "Normal Circumstances" prese	ent?	Yes_	x	No
Are Vegetation	Soil or hydrology	Naturally	problematic?		(if needed, explain any answers in	Remarks.)			
SUMMARY OF	FINDINGS - Attach site map	showing sam	pling point	locations,	transects, important featur	es, etc.			
Hydrophytic Vege Hydric Soils Pres Wetland Hydrolo	ent? Yes		o		Is the Sampling Area within a Wetland?	Yes_		No	x
·	e next to NRCS ID'd swale; probab								
VEGETATION	- Ose scientific flames of pla		e Dominant	Indicator	Dominance Test Worksheet:				
Tree Stratum 1. Taxodiui	(Plot size:) m distichum (Planted)		r Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC		0 (A	.)	
2. 3	n disconsin (i lances)				Total Number of Dominant	-	(/	•	
4.					Species Across All Strata:	-	5(E	3)	
o	Tota	l Cover: 35			Percent of Dominant Species				
Sapling/Shrub St	ratum (Plot size:	_)			That Are OBL, FACW, or FAC:	-	0% (A	VB)	
2. 3.					Prevalence Index Worksheet: Total % Cover of M	fultiply by:			
4. 5					OBL species	x 1 = x 2 =	0		
J	Tota	l Cover:			FAC species	x 3 =	0		
Herb Stratum	(Plot size:) millefolium	20	v	FACU	FACU species	x 4 =	0		
2. Daucus	carota	20 15	<u>Y</u> Y	FACU UPL	UPL species Column Totals 0 (A)	x 5 =	0 0 (E	3)	
	o altissima um officinale	<u>35</u>		UPL UPL	Prevalence Index =	B/A =	#DIV/0!		
5. Erigeron	annuus	10	N	FAC		-			
6. <u>Trifolium</u> 7. Bromus				FACU UPL	Hydrophytic Vegetation Indica Dominance Test is >50%				
8					Prevalence Index is *3.0				
9. <u></u> 10					Morphological Adaptation data in remarks or on a s				
	Tota	l Cover: 115	_		Problematic Hydrophytic	Vegetation	(Explain)		
Woody Vine Stra	tum (Plot size:	_)			*Indicators of hydric soil and wet	land hydrolo	gy must be pr	esent.	
2	Tota	I Cover:			Hydrophytic Vegetation Present?	Yes_		No	x
Remarks: (Include	de photo numbers here or on a sepa	rate sheet.)							
, , , , , , , , , , , , , , , , , , , ,		,							

SOIL Sampling Point: W02SW-9 SC-2

epth	Matrix		Re	edox Featu	res				
nches)	Color (moist)	%	Color (moist)	%	Type*	Loc**	Texture	Remarks	
0-10	10YR 4/2	95	10YR 5/4	5	RM	М	clay loam	Moist, friable	
10-20	10YR 6/1	60	10YR 5/1	20	С	PL	clay loam	Moist, friable	
			10YR 5/6	20	С	М			
	· 			-			•		
	-								
ne: C=Concentr:	ation, D=Depletion, RI	M=Reduced	Matrix CS=Covered	or Coated	Sand Grain	nc **I	Location: PL=Pore Lining,	M=Matrix	
ric Soil Indicat			Matrix, CS=Covered	Tor Coutcu	Saria Gran	13.	Indicators for Problen		
Histosol (A1)	(42)		Sandy Gleyed		ł)		Coast Prairie Redox		
Histic Epipedon Black Histic (A3)			Sandy Redox Stripped Matr				Iron-Manganese Ma Other (Explain in Re		
Hydrogen Sulfid			Loamy Mucky		1)		Other (Explain in Re	indres)	
Stratified Layers			Loamy Gleye						
2 cm Muck (A10	•		Depleted Mat	` ,					
	Dark Surface (A11)		Redox Dark S			www.	kTu diantawa af hudunuhudia		
Thick Dark Surfa Sandy Mucky M			Depleted Dar Redox Depres		F/)	4,4,4	*Indicators of hydrophytic wetland hydrology must		
5 cm Mucky Pea	` '		Redox Depres	3310113 (1 0)			unless disturbed or pro		
T									
Type: Depth (inches):			_				Hydric Soils Present?	Yes	No
narks:									
	v Indicators:								
etland Hydrolog	•								
YDROLOGY etland Hydrologo imary Indicators (n	y Indicators: ninimum of one is req	uired; check	all that apply)				Secondary Indicators (mi	nimum of two required)	
etland Hydrology	minimum of one is req	uired; check		d Leaves (E	39)		,		
etland Hydrolog	ninimum of one is req	uired; check	all that apply,' — Water-Staine — Aquatic Faun		39)		Secondary Indicators (mi Surface Soil Cracks Drainage Patterns (i	(B6)	
imary Indicators (n Surface Water (High Water Tab Saturation (A3)	ninimum of one is req (A1) ole (A2)	uired; check	Water-Stainer Aquatic Fauna True Aquatic	a (B13) Plants (B14	1)		Surface Soil Cracks	(B6) B10	
imary Indicators (n Surface Water (a) High Water Tab Saturation (A3) Water Marks (B	ninimum of one is req (A1) (A2) (A2)	uired; check	Water-Stainer Aquatic Fauna True Aquatic Hydrogen Sul	a (B13) Plants (B14 Ifide Odor (t) (C1)		Surface Soil Cracks Drainage Patterns (i Dry-Season Water 1 Crayfish Burrows (C	(B6) B10 Table (C2) 8)	
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depos	ninimum of one is req (A1) ole (A2) sit) sits (B2)	uired; check	Water-Stainer Aquatic Faunt True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14 Ifide Odor (cospheres o	1) C1) n Living Ro	oots (C3)	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or	(B6) B10 'able (C2) 8) n Aerial Imagery (C9)	
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (I	ninimum of one is req (A1) ole (A2) sits (B2) B3)	uired; check	Water-Staine Aquatic Faund True Aquatic Hydrogen Sul Oxidized Rhiz	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Iro	1) C1) In Living Ro In (C4)	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depos Drift Deposits (E Algal Mat or Cru	ninimum of one is requiated (A1) sile (A2) sits (B2) sits (B3) ust (B4)	uired; check	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Iro Reduction ir	1) C1) In Living Ro In (C4)	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E	caninimum of one is requipally (A1) (A1) (A2) (A1) (A1) (A1) (A1) (A1) (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3		Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of Recent Iron R	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Iro Reduction in	f) C1) In Living Roon (C4) In Tilled Soi	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (I Inundation Visit	ninimum of one is requiated (A1) sile (A2) sits (B2) sits (B3) ust (B4)	(B7)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of Recent Iron F	a (B13) Plants (B14 Ifide Odor (cospheres of the cosphere of the cosp	t) C1) In Living Ro In (C4) In Tilled Soi	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depos Drift Deposits (I Algal Mat or Cru Iron Deposits (I Inundation Visib Sparsely Vegeta	minimum of one is req (A1) ble (A2) sit) sits (B2) B3) ust (B4) B5) ble on Aerial Imagery ated Concave Surface	(B7)	Water-Stainer Aquatic Faunt True Aquatic Hydrogen Sul Oxidized Rhiz Presence of R Recent Iron R Thin Muck Su Gauge or We	a (B13) Plants (B14 Ifide Odor (cospheres of the cosphere of the cosp	t) C1) In Living Ro In (C4) In Tilled Soi	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visit Sparsely Vegeta	minimum of one is req (A1) (A1) (A2) (A1) (A2) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of Recent Iron R Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14 Ifide Odor (cospheres of the cosphere of the cosp	t) (C1) (C1) (In Living Roon (C4) (In Tilled Soin (. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visit Sparsely Vegeta eld Observations urface Water Preser	minimum of one is req (A1) (A1) (A2) (A1) (A2) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of Recent Iron R Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (cospheres o Reduced Iro Reduction ir Irface (C7) Il Data (D9) In in Remarl	th) C1) C1) In Living Roon (C4) In Tilled Soi (Ks)	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visit Sparsely Vegeta eld Observations urface Water Presentater Table Present	minimum of one is required (A1) (A1) (A1) (A1) (A1) (A1) (A2) (A2) (A3) (A3) (A4) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Iro Reduction ir Irrface (C7) Il Data (D9) In in Remarl Depth (inc	th C1) In Living Rom (C4) In Tilled Soi (ks) (ks) (thes):	. ,	Surface Soil Cracks Drainage Patterns (C Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position FAC-Neutral Test (C	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	No
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Inundation Visit Sparsely Vegeta eld Observations urface Water Present atturation Present?	(A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14 Ifide Odor (cospheres o Reduced Iro Reduction ir Irface (C7) Il Data (D9) n in Remari	th C1) In Living Rom (C4) In Tilled Soi (ks) (ks) (thes):	. ,	Surface Soil Cracks Drainage Patterns (Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	No
imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (f Algal Mat or Cru Iron Deposits (f Inundation Visit Sparsely Vegeta eld Observations irface Water Present atturation Present? includes capillary friin	(A1) (A1) (A1) (A1) (A1) (A1) (A1) (A1)	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (cospheres o Reduced Iro Reduction in Irface (C7) Il Data (D9) In in Remarl Depth (inc	t) C1) C1) In Living Roon (C4) In Tilled Soi (C4) (C4) (C5) (C5) (C5) (C6) (C6) (C6) (C6) (C6) (C6) (C6) (C6	ls (C6)	Surface Soil Cracks Drainage Patterns (C Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position FAC-Neutral Test (C	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	No
etland Hydrology imary Indicators (n Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (f Algal Mat or Cru. Iron Deposits (I Inundation Visit Sparsely Vegeta eld Observations irface Water Present atter Table Present? includes capillary frii	minimum of one is req (A1) (A1) (A1) (A2) (A1) (A2) (A3) (A3) (A4) (A5) (A5) (A5) (A5) (A5) (A5) (A5) (A5	(B7) (B8)	Water-Stainer Aquatic Faun: True Aquatic Hydrogen Sul Oxidized Rhiz Presence of F Recent Iron F Thin Muck Su Gauge or We Other (Explai	a (B13) Plants (B14) Ifide Odor (cospheres o Reduced Iro Reduction in Irface (C7) Il Data (D9) In in Remarl Depth (inc	t) C1) C1) In Living Roon (C4) In Tilled Soi (C4) (C4) (C5) (C5) (C5) (C6) (C6) (C6) (C6) (C6) (C6) (C6) (C6	ls (C6)	Surface Soil Cracks Drainage Patterns (C Dry-Season Water 1 Crayfish Burrows (C Saturation Visible or Geomorphic Position FAC-Neutral Test (C	(B6) B10 Table (C2) 8) n Aerial Imagery (C9) n (D2)	No
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Inaugural South Suburban Airport Site:

Locale: BWCW02

Date: April 24, 2009 1 hours
October 8, 2008 1 hours

By: AECOM:S.Johnson;T.Schultz; T.Radke; M Hildreth
File: l:\work\103576\wp\Environmental\Wetland Delineation\Completed Field Forms\Revised
Forms\W02\FQI\BWCW02.inv

29 NA 41 T 2.4 NA 1.7 W 12.8 NA 10.8 W -1.7 NA -0.6 W	TIC QUALITY DATA TIVE SPECIES TOTAL Species TIVE MEAN C MAdventives TIVE FQI MAdventives TIVE MEAN W MAdventives TIVE MEAN W MAdventives TOTAL MEAN W MADVENTIVE MEAN W MADVENTIVES TOTAL METERS TOTAL M	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	29 3 5 2 0 9 0 8 2 0 0 0	70.7% 7.3% 12.2% 4.9% 0.0% 22.0% 0.0% 19.5% 4.9% 0.0% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra A-Sed A-Sed	2 2 2 e 0 0 e 0 b 1 b 2 b 1 ss 1 ss 3 ge 0	29.3% 4.9% 4.9% 0.0% 0.0% 2.4% 4.9% 2.4% 2.4% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAST	I		4	FACU-	Ad A-Forb	VELVETLEAF
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AMAHYB	0 Amaranthus hybridus			5	UPL	Nt A-Forb	GREEN AMARANTH
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASCSYR	O Asclepias syriaca			5	UPL	Nt P-Forb	COMMON MILKWEED
ASTPUF	7 Aster puniceus firm	us		-5	OBL	Nt P-Forb	SHINING ASTER
ASTSII	3 Aster simplex inter	ior		-5	[OBL]	Nt P-Forb	MARSH ASTER
BARVUL	0 BARBAREA VULGARIS			0	FAC	Ad B-Forb	YELLOW ROCKET
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CICMAC	6 Cicuta maculata			-5	OBL	Nt P-Forb	WATER HEMLOCK
CORRAC	1 Cornus racemosa			-2	FACW-	Nt Shrub	GRAY DOGWOOD
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
GEULAT	2 Geum laciniatum tri	chocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
IRIVIS	5 Iris virginica shre	vei		-5	OBL	Nt P-Forb	BLUE FLAG
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
LONMUE	0 LONICERA X MUENDENI	ENSIS		5	UPL	Ad Shrub	COMMON FLY HONEYSUCKLE
MORALB	0 MORUS ALBA			0	FAC	Ad Tree	WHITE MULBERRY
PASSAT	O PASTINACA SATIVA			5	UPL	Ad B-Forb	WILD PARSNIP
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PILPUM	5 Pilea pumila			-3	FACW	Nt A-Forb	CLEARWEED
POLHYR	2 Polygonum hydropipe	r		-3	FACW	Nt A-Forb	WATER PEPPER
POLLAP	0 Polygonum lapathifo	lium		-4	FACW+	Nt A-Forb	HEARTSEASE
POLPEN	0 Polygonum pensylvan	icum		- 4	FACW+	Nt A-Forb	PINKWEED

PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
PRUVIR	3 Prunus virginiana	3 [FACU]	Nt Shrub	CHOKE CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SECCER	0 SECALE CEREALE	5 UPL	Ad A-Grass	RYE
SETFAB	0 SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
STATEH	5 Stachys tenuifolia hispida	-4 FACW+	Nt P-Forb	MARSH HEDGE NETTLE
ULMPUM	0 ULMUS PUMILA	5 UPL	Ad Tree	SIBERIAN ELM
VERHAS	4 Verbena hastata	-4 FACW+	Nt P-Forb	BLUE VERVAIN
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson #2: Tory Schultz State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Stream X Yes No Is The Site Significantly Disturbed (Atypical Situation)? BWC-W02 **X** Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Black Walnut Creek. Fresh spoil piles along the bank suggest a recent dredge event. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 7. Elymus virginicus FACW-**HERB** 20 8. --Ambrosia trifida HERB --3. FAC+ 15 9. Aster simplex interior OBL **HERB** 5 10. ----Vitis riparia FACW-HERB 5 11. 5. Polygonum hydropiper OBL HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: X Stream, Lake, Or Tide Gauge None Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **9** (in.) X Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **7** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Drummer silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR NA NA NA NA silty clay loam, moist, friable 11 Ap 3/1 24 10YR 3/2 NA NA NΑ NA silty clay loam, moist, friable 11 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (F6) Redox Dark Surface (A11) Depleted Below Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Floodplain adjacent to creek. Sediment deposition and dredge activities obscure hydric indicators. Wetland vegetation and hydrology present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? Nο X Yes Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/08/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Sarah Johnson Illinois #2: Tory Schultz State: Do Normal Circumstances Exist On The Site? No Community ID: Upland X Yes Is The Site Significantly Disturbed (Atypical Situation)? BWC-W02 **X** Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Black Walnut Creek. Fresh spoil piles along the bank suggest a recent dredge event. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Taraxacum officinale FACU FACU HERB HERB Oxalis europaea 5 Echinochloa crusgalli **FACW HERB** 10 8. 2. Ambrosia trifida --3. FAC+ HERB 5 9. Setaria faberi FACU+ **HERB** 25 10. ----Rumex crispus HERB 5 5. FAC+ 11. Amaranthus retroflexus FACU+ **HERB** 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-) 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: X Stream, Lake, Or Tide Gauge X None Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: **Drummer silty clay loam, 0 to 2 percent slopes** Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Mottle Colors Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Top Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 9 10YR silty clay loam, moist, friable Ap 3/2 9 18 10YR 3/1 10YR 6/8 prominent silty clay, moist, friable few Α 18 10YR 2/1 10YR 5/8 20 В common distinct silty clay, moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. This profile contains a dark matrix in the lower layers suggesting a buried horizon. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X No X No Yes Yes Remarks: This plot is not located in wetland.

Appendix E Section Will 01

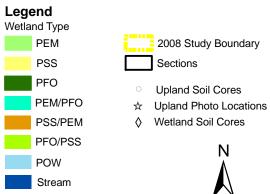
	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
W01NE-1-S2	19	Yes	0.4	
W01NE-1U-S1	21	No	8.1	
W01NE-2-S1	20	Yes	0.0	
W01NE-2U-S2	20	No	0.0	
W01NE-4-S1	NA	NA	2.4	no soil core
W01NE-6-S1	20	Yes		
W01NE-6U-S2	20	Yes	1.9	
W01NE-6b-S1	NA	NA		no soil core
W01NE-7-S1	19	Yes	0.4	
W01NE-7U-S2	20	No	6.1	
UW01NE-8	20	No	NA	
W01NE-9-S1	20	Yes	40.4	
W01NE-9U-S2	20	No	10.4	
UW01NE-10	NA	NA	NA	Photo S
W01NW-2-S1	20	Yes		Photo NW & SE
W01NW-2U-S2	22	No	10.1	
W01NW-2-S3				
W01NW-3-S1	25	Yes		
W01NW-3U-S2	24	No	7.2	
W01NW-3U-S3	0			
UW01NW-4	7	No	NA	Photos SW & NE
UW01NW-5	NA	NA	NA	Photo E
W01NW-6a-S1	21	Yes	0.7	Photo N
W01NW-6aU-S2	22	No	8.7	
UW01NW-7	NA	NA	NA	Photo E
UW01NW-8	NA	NA	NA	Photo E
UW01NW-9	NA	NA	NA	Photo W
UW01NW-10	NA	NA	NA	Photo E & W
W01SE-1-S2	20	No	440	
W01SE-1U-S1	20	No	14.0	old field
W01SE-2a	NA	NA	20.3	FQI only
W01SE-2b	NA	NA	8.1	FQI only
W01SE-2-S2	20	Yes	N 1 A	W01SE-2 soil points apply to wetlands a - h
W01SE-2U-S1	30	Yes	NA	
W01SE-2c-S1	NA	NA	16.2	no soil core, FQI score is for c - h wetlands
W01SE-3-S1	22	Yes	10.0	
W01SE-3U-S2	22	No	16.0	
W01SE-4-S1	20	Yes	0.0	
W01SE-4U-S2	20	No	0.0	
W01SE-5-S2	20	Yes	4.0	
W01SE-5U-S1	22	No	4.2	
W01SE-6-S1	NA	NA	2.0	retention pond, no soil core

Appendix E Section Will 01

	Total	Hydric	Native	
Area ID	Depth	Soil	FQI	Comments
W01SE-7-S1	20	Yes	40.0	
W01SE-7U-S2	20	No	10.3	
UW01SE-8	NA	NA	NA	Photo W
UW01SE-9	20	Yes	NA	Photo NW
W01SE-10-S2	20	No	1.7	tiled drainage
W01SE-10U-S1	20	Yes	1.7	ditch
UW01SE-11	NA	NA	NA	Photo NW
UW01SE-12	20	No	NA	
W01SE-13-S1	21	Yes	11.1	
W01SE-13U-S2	21	Yes	11.1	
W01SE-14-S2	21	Yes	16.0	
W01SE-14U-S1	20	No	16.2	
W01SW-1U-S1	21	Yes		
W01SW-1-S2	22	Yes		Photo W
W01SW-1U-S3	22	Yes	10.3	
W01SW-1-S4	20	Yes		Photo E
W01SW-1U-S5	NA	NA		no soil core
W01SW-4a-S1	20	Yes		
W01SW-4aU-S2	20	No		
W01SW-4a-S3	22	Yes		
W01SW-4a-S4	20	Yes	10.6	
W01SW-4aU-S5	20	No		
W01SW-4aU-S6	20	No		
W01SW-4a-S7	20	Yes		
W01SW-4b-S1	20	No	4.6	
W01SW-4bU-S2	20	Yes		
UW01SW-4c	20	Yes	NA	Photo NW
UW01SW-5	NA	NA	NA	Photo S
UW01SW-6	NA	NA	NA	Photo E
UW01SW-7	NA	NA	NA	Photo SE
W01SW-8-S2	21	Yes	2.0	
W01SW-8U-S1	20	Yes		
UW01SW-9	NA	NA	NA	Photo N
W01SW-10-S1	19	Yes	2.5	Photo E
W01SW-10U-S2	19	No		
UW01SW-11	NA	NA	NA	Photo NE
UW01SW-12	NA	NA	NA	Photo NE

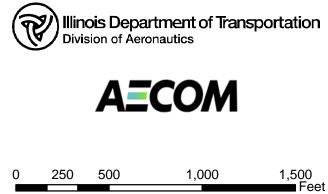
NA = not applicable





Wetland Complex

EXHIBIT E-1G
Will Township Section 1
2008 - 2009 FIELD INVESTIGATION RESULTS
South Suburban Airport



Site: Inaugural South Suburban Airport

Locale: W01NE1

Date: September 29, 2008 1 hours
By: AECOM; T.Radke; R. West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE1.inv
Notes: Includes W01NE1 & NE1b

21 NA 31 T 1.8 NA 1.2 W 8.1 NA 6.6 W -1.9 NA -0.9 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	21 2 0 0 7 0 7 0 7 0 2 2 2 1	67.7% 6.5% 0.0% 0.0% 0.0% 22.6% 0.0% 22.6% 0.0% 6.5% 6.5% 3.2% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed A-Sed	0 e 0 0 e 0 b 3 b 0 b 2 ss 1 ss 3 ge 0	32.3% 3.2% 0.0% 0.0% 0.0% 9.7% 0.0% 6.5% 3.2% 9.7% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			Ţ	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAST	I		4	1 FACU-	Ad A-Forb	VELVETLEAF
ACARHO	0 Acalypha rhomboidea			3	3 FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACESAI	0 Acer saccharinum			-3	B FACW	Nt Tree	SILVER MAPLE
ALISUB	4 Alisma subcordatum			- !	5 OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMAHYB	O Amaranthus hybridus			į	5 UPL	Nt A-Forb	GREEN AMARANTH
AMBTRI	O Ambrosia trifida			-:	L FAC+	Nt A-Forb	GIANT RAGWEED
BIDCON	5 Bidens connata			- 5	5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
CYPESC	O Cyperus esculentus			- 1	L [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
ECHCRU	0 Echinochloa crusgal	li		-3	B FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3 Eleocharis obtusa			-!	5 OBL	Nt A-Sedge	BLUNT SPIKE RUSH
ERIPHI	4 Erigeron philadelph	icus		-3	B FACW	Nt P-Forb	MARSH FLEABANE
HELGRO	2 Helianthus grossese	rratus		-2	2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			([FAC]	Nt P-Forb	DUDLEY'S RUSH
MORALB	0 MORUS ALBA			() FAC	Ad Tree	WHITE MULBERRY
PANDII	0 Panicum dichotomifl	orum		-2	2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	0 PHALARIS ARUNDINACE	A		- 4	1 FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	O Plantago rugelii			(FAC	Nt A-Forb	RED-STALKED PLANTAIN
POLHYR	2 Polygonum hydropipe	r		-3	3 FACW	Nt A-Forb	WATER PEPPER
POLPER	0 POLYGONUM PERSICARI	A			L [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides			- 1	L FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris 1	anceolata		3	B [FACU]	Nt P-Forb	SELF HEAL
RANABO	0 Ranunculus abortivu	s		-2	2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
RUMCRI	0 RUMEX CRISPUS			- 3	L FAC+	Ad P-Forb	CURLY DOCK
RUMVER	6 Rumex verticillatus			- !	5 OBL	Nt P-Forb	SWAMP DOCK
SCIATR	4 Scirpus atrovirens			- !	5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETFAB	O SETARIA FABERI			2	2 FACU+	Ad A-Grass	GIANT FOXTAIL

SETGLA	0 SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
TAROFF	0 TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
TRIREP	O TRIFOLIUM REPENS	2 FACU+	Ad P-Forb	WHITE CLOVER
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R.West State: Illinois PFO/PEM Do Normal Circumstances Exist On The Site? Yes X No Community ID: No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W01NE-1 X Yes Is The Area A Potential Problem Area? X No Plot ID: SC-2 Yes (If yes, define below.) Remarks: Tiled/excavated stream corridor remaining north of new runway. Wooded cover recently removed in part. Part mowed. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** 95 Typha angustifolia OBL **HERB** 2 8. 3. Polygonum hydropiper OBI **HERB** 2 9. 4. 10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Open channel with water 3 feet west of soil core SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 8 Α 2/1 few distinct Silty clay loam; moist, friable 8 14 A2 10YR 2/1 10YR 4/2 common Silty clay loam; moist, firm; some gravel faint 10YR 14 19 АЗ 2/1 NA NA NΑ NA Silty clay loam; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/29/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NE-1 X Yes Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: Drainageway starting in farmfield north; partly tiled/excavated/mowed; new culvert under new runway on south. **VEGETATION** Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name Species Name Stratum % Cover Trifolium repens FACU+ **HERB** Setaria viridis FAC-**HERB** 20 8. Trifolium pratense FACU+ **HERB** 20 3. 9. Digitaria ischaemum **FACU HERB** 20 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0 Remarks: Hydrophytic vegetation is not dominant. Area mowed. Some species ID required comparison to flowering specimens at unmown edges. Identified dominant species totaled 80% cover w/no wetland species. Unidentified grasses/forbs = 40% of vegetative cover. Poa pratense was suspected but not ID'd. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 8 3/2 NA NA NA NΑ Silty loam; moist, friable 8 21 В 10YR 4/2 10YR common distinct Silty loam; moist, friable, sandstone fragments 5/6 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes

Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation Locale: W01NE2

Date: September 29, 2008 30 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE2.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	1	100.0%
O NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
1 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	1	100.0%
5.0 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME

GLYNMX 0 GLYCINE MAX 5 UPL Ad A-Forb SOY BEAN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: FW Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W01NE-2 Yes Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: This area is a cropped field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** Glycine max 50 2. 8. 3. --9. 4. --__ 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Normal circumstances not present. Soybeans stressed, sparse and covered with sediment. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: NRCS Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Evidence of ponding SOILS Map Unit Name: Peotone silty clay loam Series Drainage Class: Very poorly drained Taxonomy (Subgroup): Cumulic Vertic Endoaquoll Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 8 Ap Ν NA NA NA NA Silty clay loam; moist, friable 8 15 A2 2.5 Ν NA NA NA NA Silty clay; moist, firm 15 2.5 20 В Ν 10YR 4/1 common faint Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface x (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** X No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. Normal circumstances not present: vegetation parameter is altered.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-2 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: This area is a cropped field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 100 Glycine max 2. 8. 3. 9. 4. --10. ----5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. Soybean crop is not stressed. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Soil core is on a rise in the soybean field. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 8 3/1 NΑ NA NΑ NΑ Silty loam; moist, friable 10YR 5/6 common distinct 8 20 В 2.5YR 6/2 10YR 3/1 prominent Silty clay; moist, firm few Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation Locale: W01NE4

Date: October 1, 2008 1 hours

By: AECOM: T.Radke; R.West

File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE4.inv

FLORISTIC QUALITY DATA	A Native	6	66.7%	Advent	ive 3	33.3%	
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%	
9 Total Species	Shrub	0	0.0%	Shrub	0	0.0%	
1.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%	
0.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%	
2.4 NATIVE FQI	P-Forb	0	0.0%	P-Forb	1	11.1%	
2.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%	
-2.2 NATIVE MEAN W	A-Forb	4	44.4%	A-Forb		0.0%	
-1.3 W/Adventives	P-Grass	0	0.0%	P-Gras		0.0%	
AVG: Fac. Wetland (-)	A-Grass	2		A-Gras	s 2	22.2%	
	P-Sedge	0	0.0%	P-Sedg	e 0	0.0%	
	A-Sedge	0	0.0%	A-Sedg	e 0	0.0%	
	Cryptogam	0	0.0%				
ACRONYM C SCIENTIFIC	JAMF		TAT	WETNESS	PHYSTOGNOMY	COMMON NAME	
ACRONITY C SCIENTIFIC I	NYXI-ILI		**	WEINESS	INIDIOGNOM	COMMON NAME	
AMBARE 0 Ambrosia ar	cemisiifolia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED	
ECHCRU 0 Echinochloa	crusgalli		-3	FACW	Nt A-Grass	BARNYARD GRASS	
PANDII 0 Panicum dicl	NDII 0 Panicum dichotomiflorum		-2	FACW-	Nt A-Grass	KNEE GRASS	
POLPEN 0 Polygonum pe	OLPEN 0 Polygonum pensylvanicum		-4	FACW+	Nt A-Forb	PINKWEED	
POLPUN 6 Polygonum pr	PUN 6 Polygonum punctatum		-5	OBL	Nt A-Forb	SMARTWEED	
RANABO 0 Ranunculus	ABO 0 Ranunculus abortivus		-2	FACW-	Nt A-Forb	SMALL-FLOWERED	BUTTERCUP
RUMCRI 0 RUMEX CRISP	JS		-1	FAC+	Ad P-Forb	CURLY DOCK	
SETFAB 0 SETARIA FABI	ERI		2	FACU+	Ad A-Grass	GIANT FOXTAIL	
SETGLA 0 SETARIA GLA	JCA		0	FAC	Ad A-Grass	YELLOW FOXTAIL	

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **South Suburban Airport** Date: 10/01/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NE-4 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Channel and adjacent farmed wetland dominated by Barnyard grass/Yellow Foxtail and smartweed. No soil core taken. Delineated via topography and vegetation. Channel has been reworked as result of runway construction to the south. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** 7. FACW-HERB Panicum dichotomiflorum 1 Setaria glauca FAC **HERB** 5 8. 2. Setaria faberi 3. FACU+ HFRB 5 9. Rumex crispus UPL HERB 5 10. __ Polygonum pensylvanicum FACW+ **HERB** 50 11. 5. Ranunculus abortivus FACW-HFRB Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. Weedy ag wetland species **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS ID and stunted crops. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Field Observations Confirm Mapped Type? no soil core **Typic Endoaquolls** * Yes No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: *Hydric soils are mapped. Channel just north of runway graded from runway construction. Now eroded and bare. Hydrophytic vegetation and wetland hydrology present along length of channel area. WETLAND DETERMINATION Hydric Soils Present? * Yes X Yes Nο Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in a wetland. *Hydric soil mapped. Soil core not taken. Channel has been reworked as a result of runway construction. Channel is bare and eroded in part.

Site: SSA Inaugural Delineation

Locale: W01NE6

Date: September 29, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE6.inv
Notes: FQI includes W01NE6a and 6b

FLORISTIC QUALITY DATA	Native	7	63.6%	Adventive	4	36.4%
7 NATIVE SPECIES	Tree	1	9.1%	Tree	0	0.0%
11 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.7 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.9 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
1.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-2.3 NATIVE MEAN W	A-Forb	3	27.3%	A-Forb	1	9.1%
-1.0 W/Adventives	P-Grass	1	9.1%	P-Grass	1	9.1%
AVG: Fac. Wetland (-)	A-Grass	2	18.2%	A-Grass	2	18.2%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CHEALB	0 CHENOPODIUM ALBUM	1 FAC-	Ad A-Forb	LAMB'S QUARTERS
ECHCRU	0 Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
ELYVIR	4 Elymus virginicus	-2 FACW-	Nt P-Grass	VIRGINIA WILD RYE
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
RANABO	0 Ranunculus abortivus	-2 FACW-	Nt A-Forb	SMALL-FLOWERED BUTTERCUP
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
ZEAMAY	0 ZEA MAYS	5 UPL	Ad A-Grass	CORN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: PEM No Is The Site Significantly Disturbed (Atypical Situation)? Station ID: W01NE-6 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Cropped field with tiled drainage. Soil core next to hedgerow with swale crossing to next field to south. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Zea mays UPL **HERB** Acer saccharinum **FACW** HERB 10 8. Panicum dichotomiflorum **HERB** FACW-20 3. 9. Echinochloa crusgalli **FACW HERB** 20 10. __ 5. Setaria faberi FACU+ HERB 12 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is dominant in depression in corn field. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Evidence of ponding in depression in cornfield. NRCS review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 20 3/1 common faint Silty loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland?

Wetland Hydrology Present?

X Yes

Remarks: This plot is located in a wetland.

No

No

X Yes

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-6 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Corn field VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays 2. Ranunculus abortivus FACW-**HERB** 10 8. 3. 9. 4. 10. ----5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Review SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 8 Ap 3/2 NA NA NA NA Silty clay loam; moist, friable, some gravel 8 12 A2 10YR 3/2 10YR 6/6 common prominent Silty clay loam; moist, friable 10YR Silty loam; moist, friable; sandstone fragmentst 12 20 А3 2/1 NΑ NA NA Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/02/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? PEM/FW X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NE-6b X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Part of same tiled drainagway as W01NE-6a. Uncultivated area in corn field. No soil core taken VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** FAC-HERB Chenopodium album 1 Bidens frondosa **FACW HERB** 30 8. Ambrosia trifida **HERB** 3. FAC+ 20 9. Agrostis alba UPL **HERB** 30 10. __ Elymus virginicus FACW-HERB 11. 5. 5 Acer saccharinum **FACW** TRFF 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Uncultivated depression in farm field. NRCS ID and local soil survey SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? No soil core * Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: *Hydric soils are mapped. No soil core taken. **WETLAND DETERMINATION** Hydric Soils Present? * Yes X Yes Nο Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: This plot is located in a wetland. *Soil mapped hydric. Area located in same soil unit as W01NE-6a, in same landscape position, and with similar vegetation.

Site: SSA Inaugural Delineation Locale: W01NE7

Date: September 29, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE7.inv

FLORIST	IC QUALITY DATA	Native	12	75.0%	Advent	tive 4	25.0%
	TIVE SPECIES	Tree	1	6.3%	Tree	0	0.0%
	otal Species	Shrub	1	6.3%	Shrub	0	0.0%
	TIVE MEAN C	W-Vine	2	12.5%	W-Vine		0.0%
	/Adventives	H-Vine	0	0.0%	H-Vine		0.0%
	TIVE FQI	P-Forb	5	31.3%	P-Fork		0.0%
	/Adventives	B-Forb	0	0.0%	B-Fork		0.0%
	TIVE MEAN W	A-Forb	2	12.5%	A-Fork		0.0%
	/Adventives	P-Grass	0	0.0%			18.8%
	culative (+)	A-Grass	1				
AVO. 14	culacive (1)	P-Sedge	0	0.0%	P-Sed	-	
		A-Sedge	0	0.0%	A-Sed		0.0%
		Cryptogam	0	0.0%	A-Sed 9	je o	0.0%
		Cryptogam	U	0.0%			
ACRONYM	C SCIENTIFIC NAME			M	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
FESELA	O FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
PRUVLA	O Prunella vulgaris l	anceolata		3	[FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
VITRIP	2 Vitis riparia			-2	FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/29/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NE-7 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Ind. Status Stratum % Cover Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** 30 Festuca elatior UPL **HERB** 30 8. 2. Echinochloa crusgalli **FACW HERB** 3. 30 9. Helianthus grosseserratus FACW-HERB 20 10. --__ 5. Solidago altissima **FACU** HERB 20 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review. Uncultivated low area in farmfield. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 6 Α 10YR 3/2 4/1 few distinct Moist, friable Sandy silty loam 6 19 A2 10YR 4/1 10YR 5/8 common prominent Moist, friable sandy clay loam Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Profile does not match Ashkum, but excavation and erosion are factors WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/29/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W01NE-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: The area is a cropped field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Species Name Ind. Status Species Name Stratum % Cover <u>Stratum</u> % Cover UPL **HERB** 100% 7. Zea mays 2. 8. 3. ----9. --4. ----10. --__ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Field Observations Confirm Mapped Type? **Typic Haplaquoll** Yes X No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 Α 10YR 3/2 NA NA NA NA Moist, friable silty loam 8 A2 10YR 4.5/1 NA NA NA NA Moist, friable silty clay loam distinct 8 13 В1 10YR 4.5/1 10YR common Moist, firm silty clay 10YR 5/6 common distinct 20 B2 10YR 10YR 13 6/1 distinct Moist, firm silty clay 4/4 common Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Profile does not match Ashkum, but excavation and erosion are factors WETLAND DETERMINATION X No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/30/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-8 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Corn field; vegetation parameter altered. In depression on slope. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays Echinochloa crusqalli **FACW HERB** 35 8. 3. Setaria faberi FACU+ **HFRB** 15 9. 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic and upland vegetation both dominant. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge **Aerial Photos** Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS review. SOILS Map Unit Name: Markham silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): Mollic Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 Ap 2/1 NA NA NA NA Silty clay loam; moist, friable 10 В1 10YR 5/3 10YR common faint Silty clay loam; moist, firm 5/6 10 10YR 20 B2 4.5/1 10YR 5/6 many distinct Silty clay; moist, very firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** * No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. *Vegetation parameter is altered by cultivation.

Site: SSA Inaugural Delineation

Locale: W01NE9

Date: September 30, 2008 1 hours

By: AECOM: T.Radke; R.West

File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NE9.inv

Notes: FQI includes W01NE9a-d

FLORISTIC QUALITY DATA	Native	23	76.7%	Adventive	7	23.3%
23 NATIVE SPECIES	Tree	3	10.0%	Tree	0	0.0%
30 Total Species	Shrub	4	13.3%	Shrub	0	0.0%
2.2 NATIVE MEAN C	W-Vine	2	6.7%	W-Vine	0	0.0%
1.7 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.4 NATIVE FQI	P-Forb	7	23.3%	P-Forb	2	6.7%
9.1 W/Adventives	B-Forb	0	0.0%	B-Forb	1	3.3%
-2.4 NATIVE MEAN W	A-Forb	4	13.3%	A-Forb	2	6.7%
-1.4 W/Adventives	P-Grass	0	0.0%	P-Grass	1	3.3%
AVG: Fac. Wetland (-)	A-Grass	2	6.7%	A-Grass	1	3.3%
	P-Sedge	1	3.3%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
AMBTRI	O Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum	-1 FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa	-3 FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CIRARV	O CIRSIUM ARVENSE	5 UPL	Ad P-Forb	FIELD THISTLE
CORSTO	6 Cornus stolonifera	-3 FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPESC	O Cyperus esculentus	-1 [FAC+]	Nt P-Sedge	FIELD NUT SEDGE
DAUCAR	O DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	O Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3 Epilobium coloratum	-5 OBL	Nt P-Forb	CINNAMON WILLOW HERB
GEULAT	2 Geum laciniatum trichocarpum	-3 FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	O Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
PHAARU	O PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALAMY	5 Salix amygdaloides	-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW

SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
TYPGLA	1 Typha X glauca	-5 OBL	Nt P-Forb	HYBRID CATTAIL
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/30/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-9 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Large uncropped depression in cornfield corresponds to NRCS review unit VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Echinochloa crusgalli **FACW HERB** 70 7. Setaria faberi FACU+ HERB 5 8. Abutilon theophrasti HFRB 2 3. FACU-9. Panicum dichotomiflorum UPL **HERB** 2 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS ID of uncropped area in cornfield. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 6 Aр 2/1 NA NA NA NA Mucky silty clay loam; moist, sticky 6 15 A2 10YR 2/1 NA NA NA NA silty clay; saturated at 10" 15 10YR 20 АЗ 2/1 10YR 4/1 few faint silty clay; very firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. Area extends far north to edge of parcel.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/30/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-9 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Cornfield; vegetation parameter altered VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** 70 Zea mays Echinochloa crusgalli **FACW HERB** 8. 1 3. Setaria faberi FACU+ **HFRB** 9. 1 10. --5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): No X Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR distinct 3/1 common 10YR Silty clay loam; moist, friable 0 8 Ap 4/2 10YR 5/4 common distinct 10YR 4/1 distinct 8 20 В1 10YR 5/3 10YR 5/6 distinct Silty clay; moist, firm manv Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/30/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NE-10 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Upland vegetation in cornfield. No soil core collected. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia artemisiifolia FACU **HERB** Setaria glauca FAC **HERB** 8. 3. Cirsium arvense FACU **HFRB** 9. Cichoruum intybus UPL **HERB** 10. --5. Trifolium repens FACU+ **HERB** 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: NRCS Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): * Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: *Non-hydric soil unit mapped. No soil core taken **WETLAND DETERMINATION X** No Hydric Soils Present? * No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No X No Remarks: This plot is not located in wetland. *No soil core taken. Wetland vegetation and hydrology are not present.

Site: Inaugural South Suburban Airport

Locale: W01NW2

Date: September 26, 2008 30 minutes

By: AECOM: A.Amelse; M. Hildreth

File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NW2.inv

Notes: FQI includes W01NW2a and b

FLORISTIC QUALITY DATA	Native	12	60.0%	Adventive	8	40.0%
12 NATIVE SPECIES	Tree	3	15.0%	Tree	0	0.0%
20 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
2.9 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.8 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
10.1 NATIVE FQI	P-Forb	4	20.0%	P-Forb	2	10.0%
7.8 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.7 NATIVE MEAN W	A-Forb	3	15.0%	A-Forb	0	0.0%
-1.1 W/Adventives	P-Grass	0	0.0%	P-Grass	4	20.0%
AVG: Fac. Wetland (-)	A-Grass	2	10.0%	A-Grass	2	10.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	0 Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BIDCON	5 Bidens connata	-5 OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
ECHCRU	O Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
FESPRA	0 FESTUCA PRATENSIS	4 FACU-	Ad P-Grass	MEADOW FESCUE
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PHAARU	O PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
PLAOCC	9 Platanus occidentalis	-3 FACW	Nt Tree	SYCAMORE
POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
QUEMAC	5 Quercus macrocarpa	1 FAC-	Nt Tree	BUR OAK
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-2 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Plot loctated in tree plantation VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum Species Name Ind. Status % Cover Species Name % Cover <u>Stratum</u> Agrostis alba FACW **HERB** Ambrosia artemisiifolia **FACU** HERB 10 5 Aster lateriflorus FACW-**HERB** 10 8. Festuca pratensis FACU-**HERB** 10 Echinochloa crusgalli **HERB** Fraxinus pennsylvanica SHRUB **FACW** 9. **FACW** 2 3. 10 Setaria faberi FACU+ **HERB** 10. 5 Setaria glauca FAC **HERB** 10 11. Panicum dichotomiflorum FACW-**HERB** 40 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 86% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Mottle Colors Тор **Bottom** Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. oxidized rhizospheres 5YR 0 Α 10YR 2/1 3/3 common distinct clay loam, moist, firm 13 В1 10YR 4/2 10YR 4/6 distinct silty clay loam, moist, firm many 2.5Y 10YR 13 22 B2 4/1 4/6 common prominent clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/26/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-2 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> Rubus allegheniensis FACU+ **SHRUB** Fraxinus pennsylvanica **FACW** SHRUB 2 Aster lateriflorus FACW-**HERB** 10 8. Festuca pratensis FACU-**HERB** 40 Daucus carota UPI **HFRB** 9. 3. 10 --Poa compressa FACU+ **HERB** 25 10. __ Ambrosia artemisiifolia **FACU HERB** 5 11. 5. Setaria glauca FAC **HFRB** 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 25% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Mottle Colors Тор **Bottom** Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 12 Α 10YR 2/1 NA NA NA NA silty clay loam, moist, friable some dark reductions as well. 12 22 Bt 10YR 4/3 10YR 5/6 many distinct clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 09/26/08 Project/Site: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM/PFO Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-2 Yes Is The Area A Potential Problem Area? Plot ID: Yes X No S3 (If yes, define below.) Remarks: Small wetland NW of wetland W01NW-2a, identified as W01NW-2b. At one point this wetland was probably connected with W01NW2a, but hydrology has been impacted by construction activities on the airport, and this area is a small remnant wetland located in a depressional area NW of W01NW2a. **VEGETATION** Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Agrostis alba **FACW HERB** 30 7. Platanus occidentalis **FACW** TREE 10 2. Aster lateriflorus FACW-HERB 5 8. Fraxinus pennsylvanica **FACW** TREE 10 Bidens connata OBL **HERB** 10 9. 3. FACU-**HERB** 10. 4. Festuca pratensis 30 ----Poa compressa FACU+ HERB 15 11. Quercus macrocarpa FAC-**SHRUB** 30 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) X Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: X FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected Nο Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation is dominant and wetland hydrology is present, and since this area is hydrologically connected to W01NW-2a and has same wetland signature, we did not complete a soil core. See data sheet W01NW-2-S1. WETLAND DETERMINATION * Yes Hydric Soils Present? Hydrophytic Vegetation Present? X Yes Nο Nο Wetland Hydrology Present? X Yes Is This Sampling Point Within A Wetland? X Yes No No Remarks: This plot is located in a wetland. Wetland boundary was delineated based on topography of depressional area.

Inaugural South Suburban Airport Site:

Locale: W01NW3

Date: September 26, 2008 30 minutes

By: AECOM: A.Amelse; M. Hildreth

File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01NW3.inv

Notes: FQI includes W01NW3a and b; next to Bult Field

FLORISTIC QUALITY DATA	Native	11	57.9%	Adventive	8	42.1%
11 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
19 Total Species	Shrub	1	5.3%	Shrub	0	0.0%
2.2 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
1.3 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
7.2 NATIVE FQI	P-Forb	4	21.1%	P-Forb	3	15.8%
5.5 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
-1.4 NATIVE MEAN W	A-Forb	2	10.5%	A-Forb	1	5.3%
-1.1 W/Adventives	P-Grass	2	10.5%	P-Grass	2	10.5%
AVG: Faculative (+)	A-Grass	2	10.5%	A-Grass	2	10.5%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3 FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
ANDGER	5 Andropogon gerardii	1 FAC-	Nt P-Grass	BIG BLUESTEM GRASS
APOCAN	4 Apocynum cannabinum	0 FAC	Nt P-Forb	INDIAN HEMP
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
CORRAC	1 Cornus racemosa	-2 FACW-	Nt Shrub	GRAY DOGWOOD
ECHCRU	O Echinochloa crusgalli	-3 FACW	Nt A-Grass	BARNYARD GRASS
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PANDII	O Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PANVIR	5 Panicum virgatum	-1 FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	O PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
PLAMAJ	0 PLANTAGO MAJOR	-1 FAC+	Ad P-Forb	COMMON PLANTAIN
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SETFAB	O SETARIA FABERI	2 FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLGIG	4 Solidago gigantea	-3 FACW	Nt P-Forb	LATE GOLDENROD
TRIHYB	0 TRIFOLIUM HYBRIDUM	1 FAC-	Ad P-Forb	ALSIKE CLOVER

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-3 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Southern most end of this polygon is located beneath the runway. Plot located in area with mowed vegetation near the runway. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover % Cover Species Name Species Name <u>Stratum</u> Phalaris arundinacea FACW+ **HERB** Panicum dichotomiflorum FACW-**HERB** 20 8. Echinochloa crusgalli **FACW HERB** 3. 20 9. Trifolium hybridum FAC-**HERB** 10. __ 5 Setaria glauca FAC **HERB** 15 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Matrix Color Mottle Colors Тор **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 15 Α 10YR 2/1 NA NA NA NA mucky silt loam, moist, firm 15 22 Bt1 N 2.5/0 NA NA NA NA mucky silty clay loam, moist, very firm 10YR 22 25 Bt2 10YR 3/1 3/4 common distinct silty clay, moist, very firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X Yes

Is This Sampling Point Within A Wetland?

Wetland Hydrology Present?

X Yes

Remarks: This plot is located in a wetland.

No

No

X Yes

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-3 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Southern most end of this polygon is located beneath the runway. Plot located in area with mowed vegetation near the runway. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> Trifolium pratense FACU+ **HERB** Daucus carota UPL **HERB** 10 8. 2. Setaria faheri FACU+ **HFRB** 3. 15 9. Poa compressa FACU+ **HERB** 20 10. __ Setaria glauca FAC **HERB** 20 11. 5. Digitaria sanguinalis FACU **HFRB** 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Beecher silt loam, 2 to 4 percent slopes Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Matrix Color Mottle Colors Тор **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 18 Α 10YR 2/1 NA NA NA NA silt loam, moist, friable 18 22 Bt 10YR 5/3 10YR 5/6 common distinct clay, moist, very firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes

Is This Sampling Point Within A Wetland?

Wetland Hydrology Present?

Yes

Remarks: This plot is not located in a wetland.

X No

X No

Yes

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/26/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-3 Yes Is The Area A Potential Problem Area? X No Plot ID: **S3** Yes (If yes, define below.) Remarks: Small depression and narrow drainageway that at one point was probably wet area connecting W01NW-3a &-3b, but hydrology has been impacted by construction activities on the airport. Flat area between the two wetlands is dominated by upland vegetation. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover % Cover Species Name Species Name <u>Stratum</u> Agrostis alba FACW **HERB** Phalaris arundinacea FACW+ **HERB** 70 8. 2. 3. 9. 4. 10. __ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: **Beecher silt loam, 2 to 4 percent slopes** Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Matrix Color Mottle Colors Тор **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 18 10YR 2/1 NA NA NA NA silt loam, moist, friable 18 22 Bt 10YR 5/3 10YR 5/6 distinct clay, moist, very firm common Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present.

Hydric Soils Present?

Is This Sampling Point Within A Wetland?

No

X No

WETLAND DETERMINATIONHydrophytic Vegetation Present?

Wetland Hydrology Present?

X Yes

Remarks: This plot is not located in a wetland.

Yes

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X No

X No

Yes

Yes

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-4 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Most of polygon now under building or pavement. Plot location is in a mowed grass area next to a hangar. Native soils have been filled and it is visible that the vegetation was recently planted (drill seeded). VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name Species Name <u>Stratum</u> % Cover Poa compressa FACU+ **HERB** Echinochloa crusgalli **FACW HERB** 55 8. 2. Setaria faheri FACU+ **HFRB** 3. 10 9. 10. __ 4. 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Peotone silty clay loam, 0 to 2 percent slopes Series Drainage Class: Very poorly drained Cumulic Vertic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Тор **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10YR 3/2 NA NA NA NA silty clay loam, moist, friable 4 Ab 10YR 2/1 NA NA NA NA silty clay loam, moist, friable 10YR 6.5 BC 10YR 3/1 3/3 common faint gravelly clay refusal at 6.5"; crushed rock Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. This area has been modified (filled) as a result of the construction of an airport. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This area is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/26/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-5 X Yes Is The Area A Potential Problem Area? **X** No Plot ID: NA Yes (If yes, define below.) Remarks: Most of drainageway has been covered with a concrete parking pad and hangar area. The northern portion of the drainage that is not covered with concrete has been graded into a swale between the taxiway and runway. Ditch wouldn't be jurisdictional if wetland developed. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover Species Name % Cover Species Name <u>Stratum</u> Poa compressa FACU+ **HERB FACW HERB** 40 Polygonum persicaria 5 Echinochloa crusgalli **FACW HERB** 20 8. Trifolium pratense FACU+ **HERB** 5 2. Rumex crispus **HFRB** 9. 3. FAC+ 5 --Trifolium hybridum FAC-HERB 10 10. __ Setaria faberi FACU+ **HERB** 10 11. 5. Ambrosia artemisiifolia FACU **HFRB** 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Typic Endoaquolls** no soil core collected No Yes Profile Description: Top **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, and other soil characteristics. Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Wetland vegetation is not dominant and wetland hydrology is not present, so no soil core taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Remarks: This area is not located in a wetland. *No Soil core collected

This area has been recently graded into a swale between a the taxiway and runway. The original drainage ditch no longer exists, but the new swale may

develop wetland characteristics after a few years of collecting runoff from the runway and taxiway. If a wetland developed, it would not be jurisdictional.

Inaugural South Suburban Airport Site:

Locale: W01NW6a

Date: September 25, 2008 30 minutes
By: AECOM: A. Amelse; M. Hildreth
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01NW6a.inv

FLORISTIC QUALITY DATA	Native	3	42.9%	Adventive	4	57.1%
3 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
7 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
5.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
2.1 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
8.7 NATIVE FQI	P-Forb	2	28.6%	P-Forb	0	0.0%
5.7 W/Adventives	B-Forb	0	0.0%	B-Forb	1	14.3%
-4.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
0.7 W/Adventives	P-Grass	1	14.3%	P-Grass	3	42.9%
AVG: Fac. Wetland (+)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALP	10 Agrostis alba palustris	-5 [OBL]	Nt P-Grass	BENT GRASS
ASTSIS	3 Aster simplex	-5 OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS	5 UPL	Ad P-Grass	HUNGARIAN BROME
DAUCAR	0 DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESPRA	O FESTUCA PRATENSIS	4 FACU-	Ad P-Grass	MEADOW FESCUE
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHLPRA	0 PHLEUM PRATENSE	3 FACU	Ad P-Grass	TIMOTHY

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-6a Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** Phalaris arundinacea FACW+ **HERB** 60 8. Fraxinus pennsylvanica **FACW TREE** 20 9. 3. Pinus strobus FACU TREE 10. __ Juncus tenuis FAC **HERB** 10 11. 5. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: **Bottom** Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. oxidized rhyzospheres 0 10 A1 10YR 2.5/1 NA NA NA NA silt loam, moist, friable 10 13 A2 10YR 2.5/1 7.5YR 3/4 distinct silt loam, moist, friable common 7.5YR 13 20 Bt 10YR 2/1 2.5/3 common distinct silty clay loam, moist, friable 20 5YR 27 2Ah 10YR 2/1 3/3 distinct silt loam, moist, friable common 27 30 2Bt 10YR 4/1 10YR 4/4 distinct clay loam, moist, firm common Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-6a Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: **VEGETATION** Dominant Species (50/20 Rule) Ind. Status % Cover Ind.Status Stratum Species Name Species Name % Cover <u>Stratum</u> Poa compressa FACU+ **HERB** FAC HERB 10 Setaria glauca Trifolium pratense FACU+ **HERB** 10 8. Festuca pratensis FACU-**HERB** 15 **HERB** Andropogon gerardii FAC-15 9. 3. --Daucus carota UPL **HERB** 5 10. __ Taraxacum officinale **FACU HERB** 5 11. 5. **FACW** Phalaris arundinacea **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: **Bottom** Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. oxidized rhyzospheres 0 Α 10YR 3/2 NA NA NA NA clay loam, moist, friable 9 19 В1 10YR 3/2 10YR 5/6 distinct clay loam, moist, friable few 7.5<u>YR</u> 19 22 B2 2.5/1 NA NA NA NA silty clay loam, moist, friable Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes **X** No Hydric Soils Present? **X** No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01NW-7 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: This plot represents the location along the drainage that had the highest percent cover of hydrophytic plants. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover UPL HERB 7. FACW-HERB Daucus carota 10 Helianthus grosseserratus 5 **Bromus inermis** UPL **HERB** 50 8. 2. Agrostis alba **FACW HERB** 20 3. 9. Aster lateriflorus FACW-**HERB** 5 10. --__ Festuca pratensis FACU-**HERB** 10 11. 5. Phleum pratense FACU HFRB 6 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, and other soil characteristics. Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION **X** No Hydric Soils Present? * No Hydrophytic Vegetation Present? Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Remarks: This plot is not located in a wetland. This drainage may carry water after snowmelt and during heavy rains, but it does not have enough hydrology to leave evident hydrology

indicators or to support a dominance of hydrophytic vegetation.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-8 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: All except very western tip of polygon is beneath a concrete parking pad and hangar area. Plot located in small vegetated area that remains. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Setaria faberi FACU+ **HERB FACW** HERB 10 Polygonum persicaria 5 Echinochloa crusgalli **FACW HERB** 10 8. **HERB** Poa compressa FACU+ 30 3. 9. Ambrosia artemisiifolia **FACU HERB** 10 10. --__ Trifolium hybridum FAC-**HERB** 10 11. 5. Trifolium pratense FACU+ HFRB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core collected **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-9 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Approximately half of the polygon is beneath the concrete driveway between the hangars and taxiway. Plot located in portion Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. not covered by concrete. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover % Cover Species Name Species Name <u>Stratum</u> Setaria glauca FAC HERB 7. Polygonum persicaria **FACW** HERB 10 5 Echinochloa crusgalli **FACW HERB** 5 8. Erigeron annuus FAC-HERB 5 **HERB** Poa compressa FACU+ 40 3. 9. --Ambrosia artemisiifolia FACU HERB 5 10. __ Trifolium hybridum FAC-**HERB** 20 11. 5. Trifolium pratense FACU+ HFRB 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core collected **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. No soil core collected

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Upland Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Area just north of the runway that has been recently graded. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Setaria faberi FACU+ **HERB** 7. Plantago major FAC+ HERB 5 8. 2. Ambrosia artemisiifolia **HERB** 10 **FACU** 3. 9. --Trifolium hybridum FAC-**HERB** 10 10. __ 5. Trifolium pratense FACU+ HERB 5 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. * No soil core collected

Site: SSA Inaugural Delineation

Locale: W01SE1

Date: September 24, 2008 2 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE1.inv

FLORISTIC QUALITY DATA Native 32 72.7% Adventive 12 27.3% 32 NATIVE SPECIES Tree 3 6.8% Tree 1 2.3%

44 TO 2.5 NA 1.8 W 14.0 NA 11.9 W -1.6 NA -1.1 W	otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives c. Wetland (-)	W-Vine H-Vine P-Forb	0 14 0 5 1 1 2	0.0% 31.8% 0.0% 11.4% 2.3% 2.3% 4.5%	W-Vind H-Vind P-Forl B-Forl A-Forl P-Gras A-Gras	0 e 0 0 b 3 b 2 b 1 ss 5 ss 0	0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	O AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASCINC	4 Asclepias incarnata			-5	OBL	Nt P-Forb	SWAMP MILKWEED
ASTNOV	4 Aster novae-angliae			-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCER	5 Bidens cernua			-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSEED
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	O DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	li		-3	FACW	Nt A-Grass	BARNYARD GRASS
EUPSEM	0 Eupatorium serotinu	m		-1	FAC+	Nt P-Forb	LATE BONESET
FESELA	O FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
FRAPES	1 Fraxinus pennsylvan	ica subintege	rrima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS
HELGRO	2 Helianthus grossese	rratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTOR	4 Juncus torreyi			-3	FACW	Nt P-Forb	TORREY'S RUSH
LYTSAL	0 LYTHRUM SALICARIA			-5	OBL	Ad P-Forb	PURPLE LOOSESTRIFE
MELALB	O MELILOTUS ALBA			3	FACU	Ad B-Forb	WHITE SWEET CLOVER
PHAARU	O PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHYVIG	4 Physalis virginiana			5	UPL	Nt P-Forb	LANCE-LEAVED GROUND

CHERRY POACOM	0 POA COMPRESSA	2 FACU+	Ad P-Grass	CANADA BLUE GRASS
POLPER	0 POLYGONUM PERSICARIA	1 [FAC-]	Ad A-Forb	LADY'S THUMB
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SCIVAC	5 Scirpus validus creber	-5 OBL	Nt P-Sedge	GREAT BULRUSH
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SONULI	0 SONCHUS ULIGINOSUS	1 FAC-	Ad P-Forb	COMMON SOW THISTLE
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
VERURU	5 Verbena urticifolia	5 UPL	Nt P-Forb	HAIRY WHITE VERVAIN
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? POW X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-1 Yes Is The Area A Potential Problem Area? X No Plot ID: SC-2 Yes (If yes, define below.) Remarks: Soil core next to excavated pond. Wetland is pond and fringe of PEM/PSS wetland VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bidens frondosa **FACW HERB** Juncus torreyi **FACW HERB** 30 8. Echinochloa crusgalli **HERB FACW** 50 3. 9. Poa compressa FACU+ HERB 20 10. __ 5. Festuca elation UPL **HERB** 25 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 18 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: X FAC-Neutral Test surface (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Blount silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? **Aeric Epiaqualfs** Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR prominent 6/6 few 10YR 0 10YR few prominent Silty clay; moist, firm 10YR 6/6 common prominen 8 a2 10YR 4/1 10YR 6/8 few prominent Silty clay; moist, firm 10YR 6/6 many prominent 10YR 8 16 a3 4/1 10YR 6/8 many prominent Silty clay; moist, firm 10YR 6/6 prominent many 20 10YR 10YR 4.5/1 6/8 few prominent Silty clay; moist, firm 16 h Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Signs of pond excavation in upper layer. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No

Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 09/24/08 Project/Site: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: **AECOM; T. Radke** State: Illinois Do Normal Circumstances Exist On The Site? **X** Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Soil core ~ 50' west of excavated pond in old field. VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Phleum pratense FACU HERB 15 7. Agropyron repens FACU **HFRB** 15 8. 3. Bromus inermis UPL **HERB** 50 9. --Festuca elatior UPL **HERB** 30 10. HERB 5. Dactvlis alomerata FACU 10 11. Melilotus alba FACU HERB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches Depth to Free Water: **NA** (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Blount silt loam Series Drainage Class: Somewhat poorly drained Field Observations Confirm Mapped Type? Γaxonomy (Subgroup): **Aeric Epiaqualfs** Profile Description: Top **Bottom** Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, (Munsell Moist): (Munsell Moist): Abundance/Contrast Depth Depth Horizon and other soil characteristics. 0 0 10YR NA NA NA NA Organics, Rooty, friable 3/2 1 Α1 10YR 10YR 6/1 prominent Silty clay loam; Moist, friable few 10YR 6/6 common distinct 10YR distinct 3/1 few 7.5YR 5/6 few prominent 6 12 В1 10YR 4/1 10YR 6/6 distinct Silty clay; Moist, firm 7.5YR 5/6 few prominent 12 17 B2 10YR 4/1 10YR 4/6 many prominent Silty clay; Moist, firm 7.5YR 5/6 few prominent 21 В3 17 10YR 4/2 10YR 4/6 prominent many 7.5YR 5/6 prominent Clay loam; moist, firm few Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A1) Histosol (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Wetland vegetation and hydrology are not present. Hydric soil features appear to be relicts of wetter period prior to excavation of pond WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? X Yes No Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? X No Remarks: This plot is not located in a wetland.

Site: SSA Inaugural Delineation

Locale: W01SE2a

Date: September 24, 2008 8 hours

By: AECOM: T.Radke; R.Page

FLORISTIC QUALITY DATA

65 Total Species

47 NATIVE SPECIES

File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2a.inv

Native

Tree

Shrub

47

7

4

3

72.3%

10.8%

6.2% 4.6% Adventive

Shrub

Tree

18

3

2

27.7%

4.6%

3.1%

2.1 20.3 17.2 -1.1 -0.4	NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative (+)	W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	3 0 19 1 4 5 2 2 0	4.6% 0.0% 29.2% 1.5% 6.2% 7.7% 3.1% 3.1% 0.0%	A-For]	e 0 b 3 b 0 b 3 b 3 ss 5 ss 1 ge 0	1.5% 0.0% 4.6% 0.0% 4.6% 7.7% 1.5% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAS	STI		4	FACU-	Ad A-Forb	VELVETLEAF
ACARHO	0 Acalypha rhomboide	a		3	FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRGRY	2 Agrimonia gryposep	pala		2	FACU+	Nt P-Forb	TALL AGRIMONY
AGRREP	0 AGROPYRON REPENS			3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AGRALP	10 Agrostis alba palı	ıstris		-5	[OBL]	Nt P-Grass	BENT GRASS
ALISUB	4 Alisma subcordatum	1		-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ANDGER	5 Andropogon gerardi	i		1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASACAN	7 Asarum canadense			5	UPL	Nt P-Forb	WILD GINGER
ASTNOV	4 Aster novae-anglia	ıe		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CICMAC	6 Cicuta maculata			-5	OBL	Nt P-Forb	WATER HEMLOCK
CORSTO	6 Cornus stolonifera	l		-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
ECHCRU	0 Echinochloa crusga	ılli		-3	FACW	Nt A-Grass	BARNYARD GRASS
ELAUMB	0 ELAEAGNUS UMBELLAT	`A		5	UPL	Ad Shrub	AUTUMN OLIVE
ELYVIR	4 Elymus virginicus			-2	FACW-	Nt P-Grass	VIRGINIA WILD RYE
EPICOL	3 Epilobium coloratu	ım		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPRUG	4 Eupatorium rugosum	1		5	UPL	Nt P-Forb	WHITE SNAKEROOT
FESELA	O FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
GLYSTR	4 Glyceria striata			-3	[FACW]	Nt P-Grass	FOWL MANNA GRASS

HACVIR	O Hackelia virginiana	1 FAC-	Nt B-Forb	STICKSEED
HELGRO	2 Helianthus grosseserratus	-2 FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IPOHED	O IPOMOEA HEDERACEA	0 FAC	Ad A-Forb	IVY-LEAVED MORNING GLORY
JUGNIG	5 Juglans nigra	3 FACU	Nt Tree	BLACK WALNUT
JUNTEN	0 Juncus tenuis	2 [FACU+]	Nt P-Forb	PATH RUSH
JUNTOR	4 Juncus torreyi	-3 FACW	Nt P-Forb	TORREY'S RUSH
LONTAT	0 LONICERA TATARICA	5 [UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
MACPOM	0 MACLURA POMIFERA	3 FACU	Ad Tree	OSAGE ORANGE
MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PARINT	8 Parthenium integrifolium	5 UPL	Nt P-Forb	WILD QUININE
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RORPAF	4 Rorippa palustris fernaldiana	-5 OBL	Nt A-Forb	MARSH CRESS
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALAMY	5 Salix amygdaloides	-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SALFRA	0 SALIX FRAGILIS	-1 FAC+	Ad Tree	CRACK WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SANGRE SNAKEROOT	2 Sanicula gregaria	-1 FAC+	Nt P-Forb	CLUSTERED BLACK
SCIATR	4 Scirpus atrovirens	-5 OBL	Nt P-Sedge	DARK GREEN RUSH
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLCAR	0 SOLANUM CAROLINENSE	4 FACU-	Ad P-Forb	HORSE NETTLE
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SPAPEC	4 Spartina pectinata	-4 FACW+	Nt P-Grass	PRAIRIE CORD GRASS
TILAME	5 Tilia americana	3 FACU	Nt Tree	AMERICAN LINDEN
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM

VITRIP 2 Vitis riparia -2 FACW- Nt W-Vine RIVERBANK GRAPE

XANSTR 0 XANTHIUM STRUMARIUM 0 FAC Ad A-Forb COCKLEBUR

Site: SSA Inaugural Delineation

Locale: W01SE2b

PRUVLA

SCIATR

SALAMY 5 Salix amygdaloides

TYPANG 1 Typha angustifolia

XANSTR 0 XANTHIUM STRUMARIUM

4 Scirpus atrovirens

Date: September 24, 2008 15 minutes
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2b.inv

O Prunella vulgaris lanceolata

FLORIST	IC QUALITY DATA	Native	8	88.9%	Adven	tive 1	11.1%
8 NA	TIVE SPECIES	Tree	2	22.2%	Tree	0	0.0%
9 T	otal Species	Shrub	1	11.1%	Shrub	0	0.0%
2.9 NA	TIVE MEAN C	W-Vine	0	0.0%	W-Vin	e 0	0.0%
2.6 W	/Adventives	H-Vine	0	0.0%	H-Vin	e 0	0.0%
8.1 NA	TIVE FQI	P-Forb	3	33.3%	P-For	b 0	0.0%
7.7 W	/Adventives	B-Forb	0	0.0%	B-For	b 0	0.0%
-2.7 NA	TIVE MEAN W	A-Forb	1	11.1%	A-For	b 1	11.1%
-2.4 W	/Adventives	P-Grass	0	0.0%	P-Gra	ss 0	0.0%
AVG: Fa	c. Wetland	A-Grass	0	0.0%	A-Gra	ss 0	0.0%
		P-Sedge	1	11.1%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%			
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ALISUB	4 Alisma subcordatum			-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD

3 [FACU] Nt P-Forb SELF HEAL

-5 OBL Nt P-Sedge DARK GREEN RUSH

Ad A-Forb COCKLEBUR

Nt Tree PEACH-LEAVED WILLOW

Nt P-Forb NARROW-LEAVED CATTAIL

-3 FACW

-5 OBL

0 FAC

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** Project/Site: Date: 09/24/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois PFO, PSS Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-2 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Natural drainageway has been excavated and tiled. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis stolonifera **FACW HERB** 7. Elymus virginicus FACW-**HERB** 25 8. 3. Geum canadense FAC HFRB 10 9. --Juglans nigra UPL **TREE** 100 10. --__ Hackelia virginiana FAC-**HERB** 11. 5. Ageratina altissima FACU HFRB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 6 Α 3/1 NA NA NA NA Silty clay loam; moist, friable 13 A2 10YR 2.5/1 10YR 6/6 prominent Silty clay loam; moist, friable 6 few 13 10YR 20 Αb 2/1 NA NA NΑ Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix X Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Layer of soil at 13" has low chroma and appears to be buried beneath a layer of sediment. The lower layer corresponds to the mapped soil unit. WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/24/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-2 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: This area is on terrace north of stream channel VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Bidens frondosa **FACW HERB** 25 7. Morus alba TREE 10 FAC Hackelia virginiana FAC-**HERB** 10 8. Tilia americana **FACU** TREE 10 3. Bromus inermis UPI HFRB 10 9. Agropyron repens **FACU HERB** 60 10. 5. Festuca elation UPL HERB 10 11. **FACU** Juglans nigra TREE 75 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 Α 2/2 NA NA NA NA Silty clay loam; moist, friable 5 9 A2 10YR 3/1 NA NA NA NA Silty clay loam; moist, friable; some concretions 9 10YR 7.5YR prominent Silty clay; moist friable 30 АЗ 3/1 5/6 few Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** X No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes

Remarks: This plot is not located in a wetland.

Site: SSA Inaugural Delineation

Locale: W01SE2c

Date: September 25, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE2c.inv

27 31 3.1 2.7 16.2 15.1 -0.3 0.0	STIC QUALITY DATA NATIVE SPECIES Total Species NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	27 7 3 1 0 12 0 3 1 0 0 0	87.1% 22.6% 9.7% 3.2% 0.0% 38.7% 0.0% 9.7% 3.2% 0.0% 0.0% 0.0%	Adventine Tree Shrub W-Vine H-Vine P-Forl B-Forl A-Forl P-Graa A-Graa P-Sede	0 1 1 e 0 0 e 0 0 b 0 0 b 1 b 0 0 sss 2 2 sss 0 ge 0	12.9% 0.0% 3.2% 0.0% 0.0% 0.0% 3.2% 0.0% 6.5% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOM	Y COMMON NAME
AGRALA	O AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
ALISUB	4 Alisma subcordatum			-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	O Ambrosia artemisiif	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
ANDGER	5 Andropogon gerardii	-		1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASTNOV	4 Aster novae-angliae	2		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FRAVIR	1 Fragaria virginiana	1		1	FAC-	Nt P-Forb	WILD STRAWBERRY
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
POACOM	0 POA COMPRESSA			2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLSAN	6 Polygala sanguinea			3	FACU	Nt A-Forb	FIELD MILKWORT
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
QUEMAC	5 Quercus macrocarpa			1	FAC-	Nt Tree	BUR OAK
QUEPAU	8 Quercus palustris			-3	FACW	Nt Tree	PIN OAK
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensi	.S		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUDHIR	1 Rudbeckia hirta			3	FACU	Nt P-Forb	BLACK-EYED SUSAN
SALAMY	5 Salix amygdaloides			-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD

SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SOLJUN	5 Solidago juncea	5 UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Project/Site: **South Suburban Airport** Date: 09/24/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: POW/PEM X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-2c X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: Excavated pond in upland area next to stream corridor. Wetland is pond and emergent/shrub fringe. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Salix amygdaloides **FACW** TREE Xanthium strumarium HERB FAC Typha angustifolia OBL **HERB** 8. Prunella vulgaris lanceolata **FACU HERB** Bidens frondosa **FACW** 3. HFRB 9. Populus deltoides FAC+ TREE 10. __ Cornus stolonifera **FACW SHRUB** 11. Alisma subcordatum OBI HFRB 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation dominant around edges of pond, but not beyond. Pond located in grove of planted white pines. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) X Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Feature is likely a former livestock pond that has become natualized along edges. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? * Yes No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions ²Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are mapped along stream corridor. No soil core taken because wetland is pond. **WETLAND DETERMINATION** Hydric Soils Present? * Yes X Yes Nο Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is a pond. No soil core taken.

SSA Inaugural Delineation Site:

Locale: W01SE3

Date: September 11, 2008 8 hours

AECOM: T.Radke; R.Page By: By: File:

c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01SE3.inv

45 I 55 2.4 I 1.9 16.0 I 14.4 -1.8 I -1.3	STIC QUALITY DATA NATIVE SPECIES Total Species NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Fac. Wetland (-)	Native Tree Shrub W-Vine H-Vine P-Forb A-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	45 5 6 3 0 17 1 7 0 2 3 1 0	81.8% 9.1% 10.9% 5.5% 0.0% 30.9% 1.8% 12.7% 0.0% 3.6% 5.5% 1.8% 0.0%		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACARHO	0 Acalypha rhomboidea	a		3	FACU	Nt A-Forb	THREE-SEEDED MERCURY
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiif	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASTLAT	4 Aster lateriflorus			-2	FACW-	Nt P-Forb	SIDE-FLOWERING ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDCER	5 Bidens cernua			-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
CIRDIS	2 Cirsium discolor			5	UPL	Nt B-Forb	PASTURE THISTLE
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CYPFER	2 Cyperus ferrugineso	cens		-5	OBL	Nt A-Sedge	RUSTY NUT SEDGE
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ECHCRU	0 Echinochloa crusgal	lli		-3	FACW	Nt A-Grass	BARNYARD GRASS
EPICOL	3 Epilobium coloratum	n		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPSEM	0 Eupatorium serotinu	ım		-1	FAC+	Nt P-Forb	LATE BONESET
FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad P-Grass	TALL FESCUE
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
HELGRO	2 Helianthus grossese	erratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
IRIVIS	5 Iris virginica shre	evei		-5	OBL	Nt P-Forb	BLUE FLAG
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LIPLAN	6 Lippia lanceolata			-5	OBL	Nt P-Forb	FOG FRUIT
LONMAA	0 LONICERA MAACKII			5	UPL	Ad Shrub	AMUR HONEYSUCKLE

MORALB	0 MORUS ALBA	0 FAC	Ad Tree	WHITE MULBERRY
OSMLON	3 Osmorhiza longistylis	4 FACU-	Nt P-Forb	SMOOTH SWEET CICELY
PANDII	0 Panicum dichotomiflorum	-2 FACW-	Nt A-Grass	KNEE GRASS
PARQUI	2 Parthenocissus quinquefolia	1 FAC-	Nt W-Vine	VIRGINIA CREEPER
PENSED	5 Penthorum sedoides	-5 OBL	Nt P-Forb	DITCH STONECROP
PHAARU	0 PHALARIS ARUNDINACEA	-4 FACW+	Ad P-Grass	REED CANARY GRASS
POLHYR	2 Polygonum hydropiper	-3 FACW	Nt A-Forb	WATER PEPPER
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
POPDEL	2 Populus deltoides	-1 FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris lanceolata	3 [FACU]	Nt P-Forb	SELF HEAL
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
RUBOCC	2 Rubus occidentalis	5 UPL	Nt Shrub	BLACK RASPBERRY
RUMCRI	0 RUMEX CRISPUS	-1 FAC+	Ad P-Forb	CURLY DOCK
SALAMY	5 Salix amygdaloides	-3 FACW	Nt Tree	PEACH-LEAVED WILLOW
SALDIS	2 Salix discolor	-3 FACW	Nt Shrub	PUSSY WILLOW
SALINT	1 Salix interior	-5 OBL	Nt Shrub	SANDBAR WILLOW
SALNIG	4 Salix nigra	-5 OBL	Nt Tree	BLACK WILLOW
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
SCIPEN	4 Scirpus pendulus	-5 OBL	Nt P-Sedge	RED BULRUSH
SETGLA	O SETARIA GLAUCA	0 FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA	0 FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SPAEUR	6 Sparganium eurycarpum	-5 OBL	Nt P-Forb	COMMON BUR REED
TRIPRA	0 TRIFOLIUM PRATENSE	5 UPL	Ad P-Forb	RED CLOVER
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? **Wetland Complex** X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-3 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled natural stream corridor. Plot area dominated by Phalaris. photos 678-679 VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 100 7. 2. 8. 3. --9. --4. --__ 10. --__ 5. 11. 6 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None **Aerial Photos** Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: X FAC-Neutral Test **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Previously identified wetland. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 13 A1 10YR 2/1 NA NA NA NA silty clay; moist, friable 13 21 A2 10YR 2/1 5YR 4/6 common distinct silty clay; moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral 1Indicators of hydrophytic vegetation and (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? **X** Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland. Drainage tile present in stream corridor.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-3 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: edge of cornfield; upland vegetation between corn field and grassed waterway (Teri and Robert completed the wetland soil core) VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Solidago altissima FACU **HERB** 25 **Bromus inermis** UPL **HERB** 30 8. 2. **HERB** Poa compressa FACU+ 40 3. 9. --Phalaris arundinacea FACW+ HERB 10 10. __ 5. 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 12 Α 10YR 2.5/2 NA NA NA NA silt loam, moist, friable sandstone fragments 12 19 Bt1 10YR 4.5/3.5 10YR 4/6 distinct clay loam, moist, friable common sandstone fragments 19 22 Bt2 10YR 4.5/2 7.5YR 5/8 common clay loam, moist, friable Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes **X** No Hydric Soils Present? **X** No Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

Site: SSA Inaugural Delineation

Locale: W01SE4

Date: September 25, 2008 30 minutes
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE4.inv

FLORISTIC QUALITY DATA	Native	0	0.0%	Adventive	2	100.0%
O NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
2 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.0 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
0.0 NATIVE FQI	P-Forb	0	0.0%	P-Forb	0	0.0%
0.0 W/Adventives	B-Forb	0	0.0%	B-Forb	0	0.0%
0.0 NATIVE MEAN W	A-Forb	0	0.0%	A-Forb	0	0.0%
2.5 W/Adventives	P-Grass	0	0.0%	P-Grass	0	0.0%
AVG: Faculative	A-Grass	0	0.0%	A-Grass	2	100.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM C SCIENTIFIC NAME W WETNESS PHYSIOGNOMY COMMON NAME 0 FAC Ad A-Grass YELLOW FOXTAIL SETGLA 0 SETARIA GLAUCA

ZEAMAY 0 ZEA MAYS 5 UPL Ad A-Grass CORN

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/25/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Yes X No PEM Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W01SE-4 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Soil core at edge of cropped field. Vegetation is corn crop. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover UPL **HERB** 10 Zea mays 2. Setaria glauca FAC **HERB** 10 8. 3. 9. 4. __ 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Normal circumstances do not exist since the area is cropped. Corn is stunted and sparce. Yellow foxtail grows in bare areas. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review and failed corn crop are indicators of wetland hydrology. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 10 Α 10YR 2/1 NA NA NA NA Silty loam; Mucky, firm 10 20 A2 10YR 2/1 NA NA NA Clay; very firm NA Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No

Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/25/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-4 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: This area is a cultivated field. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Species Name <u>Stratum</u> % Cover Species Name <u>Stratum</u> % Cover UPL **HERB** Zea mays 60 2. 8. 3. --9. 4. --10. ----5. 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 11 3/1 NΑ NA NA NΑ Silty loam; moist, friable 10YR 4/1 common faint 11 21 В 10YR 6/1 10YR common distinct Clay; moist, firm 6/8 Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation

Locale: W01SE5

Date: September 26, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE5.inv

FLOR	ISTIC QUALITY DATA	Native	11	84.6%	Adven	tive 2	15.4%
11	NATIVE SPECIES	Tree	5	38.5%	Tree	0	0.0%
13	Total Species	Shrub	2	15.4%	Shrub	0	0.0%
1.3	NATIVE MEAN C	W-Vine	1	7.7%	W-Vine	e 0	0.0%
1.1	W/Adventives	H-Vine	0	0.0%	H-Vine	e 0	0.0%
4.2	NATIVE FQI	P-Forb	2	15.4%	P-For	b 1	7.7%
3.9	W/Adventives	B-Forb	0	0.0%	B-For]	b 0	0.0%
-0.5	NATIVE MEAN W	A-Forb	1	7.7%	A-For]	b 0	0.0%
0.0	W/Adventives	P-Grass	0	0.0%	P-Gra	ss 0	0.0%
AVG:	Faculative (+)	A-Grass	0	0.0%	A-Gra	ss 1	7.7%
		P-Sedge	0	0.0%	P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%	A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%		-	
ACRONYM	C SCIENTIFIC NAME			V	WETNESS	PHYSIOGNOMY	COMMON
ACENEG	0 Acer negundo			-2	2 FACW-	Nt Tree	BOX ELD

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo	-2 FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum	-3 FACW	Nt Tree	SILVER MAPLE
CRACRU	2 Crataegus crus-galli	0 FAC	Nt Tree	COCKSPUR HAWTHORN
DIGISC	O DIGITARIA ISCHAEMUM	3 FACU	Ad A-Grass	SMOOTH CRAB GRASS
FRAPES	1 Fraxinus pennsylvanica subintegerrima	0 FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense	0 FAC	Nt P-Forb	WOOD AVENS
GLEHED	0 GLECHOMA HEDERACEA	3 FACU	Ad P-Forb	CREEPING CHARLIE
POLPEN	0 Polygonum pensylvanicum	-4 FACW+	Nt A-Forb	PINKWEED
PRUSER	1 Prunus serotina	3 FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensis	2 FACU+	Nt Shrub	COMMON BLACKBERRY
SAMCAN	1 Sambucus canadensis	-2 FACW-	Nt Shrub	ELDERBERRY
VIOSOR	3 Viola sororia	1 FAC-	Nt P-Forb	COMMON BLUE VIOLET

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/26/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PFO Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Wooded area dominated by floodplain trees. Wetland unit smaller than 1996 polygon. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status % Cover Species Name Species Name <u>Stratum</u> Glecoma hederacea FACU **HERB** 7. Fraxinus pennsylvanica **FACW** SHRUB Viola sororia FAC-HERB 10 8. Fraxinus pennsylvanica **FACW TREE** 30 Geum canadense FAC HFRB Acer saccharinum **FACW** TREE 50 3. 10 9. Polygonum pensylvanicum FACW+ HERB 10 10. Prunus serotina **FACU** TREE 20 Digitaria ischaemum **FACU HERB** 15 11. SHRUB Sambucus canadensis FACW-12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 67% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks X Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data x FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained Taxonomy (Subgroup): **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 10 Α 3/2 NA NA NA Sandy loam; moist, friable 10 20 В 10YR 5/3 10YR 4/2 common faint Sandy clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil profile just barely met requirements of A11 indicator. WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No

Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport Date: 09/26/08 Project/Site: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Open field west of Silver Maple/Green Ash grove. VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Solidago altissima **HERB** 9. FACU 35 Crataegus crus-galli FAC **SHRUB** 10 Agrostis alba **FACW HERB** 40 10. Prunus serotina FACU **TREE** 25 3. Rubus allegheniensis FACU+ **SHRUB** 25 11. Fraxinus pennsylvanica **FACW TREE** 25 Glecoma hederacea 4. **FACU HERB** 40 12. Acer negundo FACW-TREE 25 Toxicodendron radicans HERB 10 5. FAC+ 15 13. Ulmus americana FACW-TREE FACU* **SHRUB** 6. Lonicera tatarica 10 14. Morus alba FAC TREE 10 Vitis riparia FACW-VINE 5 15. Juglans nigra FACU TREE 10 FACW-**SHRUB** Acer negundo 20 16. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 56% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: **NA** (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: Water-Stained Leaves NA (in.) Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Beecher silt loam Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): *X Yes No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Horizon (Munsell Moist): (Munsell Moist) Abundance/Contrast and other soil characteristics Depth 0 7 В1 10YR 10YR 4/2 5/4 faint Silty clay loam; moist, friable common 10YR 5/6 few distinct 7 22 B2 10YR 5/2 10YR 4/1 common faint Gravelly Clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (S6) Stripped Matrix Other (Explain in Remarks) (A3) Black Histic (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. *Soil eroded; appears to be missing A horizon WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? Yes X No Wetland Hydrology Present? X No Is This Sampling Point Within A Wetland? X No Yes Yes Remarks: This plot is not located in wetland. Soil core is uphill from wet woods.

Inaugual South Suburban Airport Site:

Locale: W01SE6

Date: October 1, 2008 30 minutes

By: AECOM; T.Radke; R. West

File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE6.inv

Notes: Large bare detention basin for Bult field--still under construction. By: File: Notes:

FLORISTIC QUALITY DATA	Native	6	54.5%	Adventive	5	45.5%
6 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
11 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
0.8 NATIVE MEAN C	W-Vine	2	18.2%	W-Vine	0	0.0%
0.5 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
2.0 NATIVE FQI	P-Forb	1	9.1%	P-Forb	1	9.1%
1.5 W/Adventives	B-Forb	0	0.0%	B-Forb	1	9.1%
0.5 NATIVE MEAN W	A-Forb	3	27.3%	A-Forb	1	9.1%
1.9 W/Adventives	P-Grass	0	0.0%	P-Grass	2	18.2%
AVG: Faculative (-)	A-Grass	0	0.0%	A-Grass	0	0.0%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	O ABUTILON THEOPHRASTI	4 FACU-	Ad A-Forb	VELVETLEAF
AGRREP	0 AGROPYRON REPENS	3 FACU	Ad P-Grass	QUACK GRASS
AMBARE	O Ambrosia artemisiifolia elatior	3 FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida	-1 FAC+	Nt A-Forb	GIANT RAGWEED
DAUCAR	O DAUCUS CAROTA	5 UPL	Ad B-Forb	QUEEN ANNE'S LACE
ERICAN	O Erigeron canadensis	1 FAC-	Nt A-Forb	HORSEWEED
PHLPRA	O PHLEUM PRATENSE	3 FACU	Ad P-Grass	TIMOTHY
RHURAD	2 Rhus radicans	-1 FAC+	Nt W-Vine	POISON IVY
SOLALT	1 Solidago altissima	3 FACU	Nt P-Forb	TALL GOLDENROD
TAROFF	O TARAXACUM OFFICINALE	3 FACU	Ad P-Forb	COMMON DANDELION
VITRIP	2 Vitis riparia	-2 FACW-	Nt W-Vine	RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 10/01/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Yes X No Community ID: POW Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-6 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Cropfield now an excavation for new airfield runway detention basin. Limits of new basin delineated. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Daucus carota UPL **HERB** Aster pilosus FACU+ HERB Agropyron repens **FACU HERB** 8. Phleum pratense **FACU** HERB Ambrosia artemisiifolia FACU **HFRB** 9. Solidago altissima **HERB** 3. FACU Vitis riparia FACW-VINE 10. Toxicodendron radicans FAC+ **SHRUB** 11. 5. Geum laciniatum **FACW** HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is present in detention area but not dominant in surrounding area remaining. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) X Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present in detention pond but not in surrounding area remaining. SOILS Map Unit Name: Ozaukee silt loam/Ashkum silty clay loam Series Drainage Class: Moderately well drained/Poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup):Oxyaquic Hapludalfs/Typic Endoaquolls No Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Two soil units mapped for area. Soil core not taken. Area excavated for large detention lake. **WETLAND DETERMINATION** Hydric Soils Present? * Yes X Yes Nο Nο Hydrophytic Vegetation Present? Wetland Hydrology Present? X Yes No Is This Sampling Point Within A Wetland? X Yes No Remarks: Large open water area recently excavated for airfield detention *Soil core not taken

Site: SSA Inaugrual Delineation

Locale: W01SE7

Date: October 1, 2008 2 hours

By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SE7.inv

15 NA 21 T 2.7 NA 1.9 W 10.3 NA 8.7 W -1.1 NA -0.2 W	IC QUALITY DATA TIVE SPECIES otal Species TIVE MEAN C /Adventives TIVE FQI /Adventives TIVE MEAN W /Adventives culative (+)	Native Tree Shrub W-Vine H-Vine P-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	15 9 0 0 0 4 0 2 0 0 0 0	71.4% 42.9% 0.0% 0.0% 0.0% 19.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Advent Tree Shrub W-Vine H-Vine P-Forb A-Forb P-Gras A-Gras P-Sedg A-Sedg	0 1 0 0 2 1 0 s 2 s 0 e 0	28.6% 0.0% 4.8% 0.0% 0.0% 9.5% 4.8% 0.0% 9.5% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ACENEG	0 Acer negundo			-2	FACW-	Nt Tree	BOX ELDER
ACESAI	0 Acer saccharinum			-3	FACW	Nt Tree	SILVER MAPLE
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
GEULAT	2 Geum laciniatum tri	chocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
JUGNIG	5 Juglans nigra			3	FACU	Nt Tree	BLACK WALNUT
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLARUG	O Plantago rugelii			0	FAC	Nt A-Forb	RED-STALKED PLANTAIN
POAPRA	0 POA PRATENSIS			1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
QUEALB	5 Quercus alba			0	FAC	Nt Tree	WHITE OAK
QUEBIC	6 Quercus bicolor			-4	FACW+	Nt Tree	SWAMP WHITE OAK
QUEPAU	8 Quercus palustris			-3	FACW	Nt Tree	PIN OAK
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4 Solidago graminifol	ia		-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED
GOLDENROD SONULI	0 SONCHUS ULIGINOSUS			1	FAC-	Ad P-Forb	COMMON SOW THISTLE
TRIPRA	0 TRIFOLIUM PRATENSE			5	UPL	Ad P-Forb	RED CLOVER
ULMAME	3 Ulmus americana			-2	FACW-	Nt Tree	AMERICAN ELM

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/01/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PFO Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Point is at west edge of drainage corridor south of Bult field. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Species Name Ind. Status <u>Stratum</u> % Cover Euthamia graminifolia FACW-HERB 7. Acer saccharinum **FACW** TREE 42 Ambrosia trifida FAC+ **HERB** 10 8. Ulmus americana FACW-TREE 9 Aster simplex HFRB 3. FACW Quercus palustris FACW **TRFF** 15 9. 9 Poa pratensis FAC-**HERB** 25 10. Acer saccharinum **FACW SHRUB** 10 Phalaris arundinacea FACW+ **HERB** 50 11. Acer negundo FACW-**SHRUB** 10 Solidago altissima FACU HFRB Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 7.5YR 0 12 Α 3/1 common distinct Silty clay loam; moist, friable; appears to be fill/sediment 12 20 A2 10YR 2/1 NA NA NA Mucky silty loam; moist, friable NA Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Buried horizon of 10YR 2/1 corresponds to mapped Ashkum unit **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 10/01/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-7 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Point 100ft south of wetland point (150-200ft south of stream channel) **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Solidago altissima **FACU HERB** Sonchus uliginosus FAC-HERB 20 Trifolium pratense FACU+ **HERB** 35 8. Acer saccharinum **FACW** HERB 10 FACW-3. Daucus carota UPI **HFRB** 9. Acer negundo **TRFF** 5 25 Plantago rugelii FAC **HERB** 20 10. Acer saccharinum **FACW** TREE 10 5. Poa pratensis FAC-**HERB** 30 11. Populus deltoides FAC+ **TREE** 50 **FACW FACW** Geum laciniatum HFRB Ouercus palustris TRFF 10 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 25% Remarks: Hydrophytic vegetation is not dominant. Tree/shrub layer is hydrophytic **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: NRCS Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? **X** No Yes Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 3/2 10YR 4/2 few faint Silty loam; moist, friable, sandstone fragments 20 В 10YR 4/1 10YR 5/6 many distinct Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-8 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: This area is a grassed waterway. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Bromus inermis UPL HERB Ambrosia trifida FAC+ **HERB** 8. 2. Daucus carota UPI HFRB 3. --9. --Taraxacum officinale **FACU HERB** __ 10. __ Agropyron repens **FACU HERB** 11. 5. FACU+ Trifolium pratense HFRB 6 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 16% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY x** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology not present. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Taxonomy (Subgroup): Field Observations Confirm Mapped Type? No soil core collected **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? Yes * No Yes X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. * No soil core collected.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/10/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Upland Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-9 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: tiled, grassed waterway VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Festuca elatior FACU+ **HERB** 25 Poa compressa FACU+ **HERB** 45 8. 2. **HERB** FACU 3. Agropyron repens 30 9. --10. --__ 5. 11. 6 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 10 (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology present; core taken after heavy rains. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Oxyaquic Hapludalfs** X No Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 Ap 10YR 2/1 NA NA NA NA silt loam, moist, friable 2.5Y 3/2 10YR distinct 11 Α common silty clay, moist firm 10Y 2.5/1 common prominent 2.5<u>Y</u> 11 19 В 3.5/1.5 10YR many prominent silty clay, moist, firm 10Y 2.5/1 common prominent 19 B2 20 10Y 5/1 10YR 4/6 common prominent silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present WETLAND DETERMINATION Yes **X** No Hydric Soils Present? **X** Yes Hydrophytic Vegetation Present? Nο X Yes X No Wetland Hydrology Present? No Is This Sampling Point Within A Wetland? Yes Remarks: This plot is not located in wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology at this location has been impacted, so hydric soil indicators found are likely relict and indicative of pre-tile conditions. Wetland hydrology was evident, but it had recently

rained. If wetland hydrology existed for prolonged periods during the growing season, it is expected that hydrophytic vegetation would be dominant, but it is not.

Site: Inaugural South Suburban Airport

Locale: W01SE10

Date: September 22, 2008 30 minutes

By: AECOM; T. Radke; R. Page
File: c:\FQA\studies\SSA\Wetlands2008\Final1220a\W01SE10.inv

FLORISTIC QUALITY DATA	Native	3	37.5%	Adventive	5	62.5%
3 NATIVE SPECIES	Tree	0	0.0%	Tree	0	0.0%
8 Total Species	Shrub	0	0.0%	Shrub	0	0.0%
1.0 NATIVE MEAN C	W-Vine	0	0.0%	W-Vine	0	0.0%
0.4 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%
1.7 NATIVE FQI	P-Forb	1	12.5%	P-Forb	0	0.0%
1.1 W/Adventives	B-Forb	0	0.0%	B-Forb	1	12.5%
-4.0 NATIVE MEAN W	A-Forb	1	12.5%	A-Forb	0	0.0%
-1.5 W/Adventives	P-Grass	0	0.0%	P-Grass	3	37.5%
AVG: Fac. Wetland (+)	A-Grass	1	12.5%	A-Grass	1	12.5%
	P-Sedge	0	0.0%	P-Sedge	0	0.0%
	A-Sedge	0	0.0%	A-Sedge	0	0.0%
	Cryptogam	0	0.0%			

ACRONYM	C SCIENTIFIC NAME	W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA	-3	FACW	Ad P-Grass	REDTOP
ASTSIS	3 Aster simplex	-5	OBL	Nt P-Forb	PANICLED ASTER
ECHCRU	O Echinochloa crusgalli	-3	FACW	Nt A-Grass	BARNYARD GRASS
FESELA	O FESTUCA ELATIOR	2	FACU+	Ad P-Grass	TALL FESCUE
LACSER	0 LACTUCA SERRIOLA	0	FAC	Ad B-Forb	PRICKLY LETTUCE
POAPRA	0 POA PRATENSIS	1	FAC-	Ad P-Grass	KENTUCKY BLUE GRASS
POLPEN	0 Polygonum pensylvanicum	-4	FACW+	Nt A-Forb	PINKWEED
SETGLA	O SETARIA GLAUCA	0	FAC	Ad A-Grass	YELLOW FOXTAIL

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/22/08 Project/Site: **Inaugural South Suburban Airport** Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Historic aerials show a small building in the area just south of the wetland boundary. Spoil piles and uneven terrain apparent VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** Echinochloa crusgalli **FACW HERB** 20 8. 2. Setaria glauca FAC **HFRB** 5 3. 9. --Polygonum persicaria **FACW** HERB 10 10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 7.5YR 0 8 A1 10YR 3/1 5/6 many faint silty loam moist friable 8 14 A2 10YR 2/1 10YR 5/4 few distinct silty loam moist friable 10YR 4.5/2 14 20 В 10YR 5/8 common distinct silty loam moist firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: over a2 horizon (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral 1Indicators of hydrophytic vegetation and (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? **X** Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/22/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robert Page State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Historic aerials show a small building in the area just south of the wetland boundary. Spoil piles and uneven terrain apparent VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** 50 2. Poa compressa FACU+ **HERB** 50 8. 3. 9. --4. __ 10. __ 5. 11. 6 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: 16 (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **Typic Endoaquolls** No X Yes Profile Description: Bottom Top Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 5/6 faint common 0 12 A1 10YR 3/2 7.5YR 6/8 few distinct silty loam; moist, friable 12 19 A2 10YR 3/1 10YR 5/6 silty clay loam; moist, friable common faint 19 2.5Y 20 В 5/3 NA NA NΑ NA silty clay; moist, firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral 1Indicators of hydrophytic vegetation and (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. Soil profile appears to be disturbed WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** Yes Yes No X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/24/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-11 Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Old field/pasture near old apple orchard. No wetland vegetation or hydrology present, so no soil core taken. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Festuca elatior UPL **HERB** Solidago altissima **FACU HERB** 8. Daucus carota UPL **HFRB** 3. 9. Sonchus arvensis FAC-**HERB** 10. --Agrostis alba **FACW HERB** 11. 5. UPI SHRUB Elaeagnus umbelata 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 16% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches X No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? No soil core collected No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Non-hydric soils are mapped. No soil core taken. WETLAND DETERMINATION **X** No Hydric Soils Present? * No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Remarks: This plot is not located in wetland. *No soil core taken. No wetland vegetation or hydrology present.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-12 X Yes Is The Area A Potential Problem Area? X No Plot ID: SC-1 Yes (If yes, define below.) Remarks: Soil core south of pond and trail, west of homesite. Area is low; berms constructed along east, west and north (trail) sides **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Ind. Status Species Name Species Name <u>Stratum</u> Phleum pratense **FACU HERB** Salix exigua OBL **SHRUB** 50 Dactylis glomerata **FACU HERB** 20 8. Rhamnus frangula FAC+ **SHRUB** 10 Bromus inermis UPL **HERB** FACW **SHRUB** 3. 40 9. Cornus stolonifera 10 Ambrosia trifida FAC+ **HERB** 10 10. Juglans nigra **FACU** TREE 10 5. Glecoma hederacea **FACU HERB** 40 11. Populus deltoides FAC+ **TREE** 30 UPL **TREE** Salix fragilis FAC+ Crataegus pruinosa 50 TRFF 20 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 33% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Haplaquoll Field Observations Confirm Mapped Type? Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 12 4/2 NA NA NA NΑ Silty loam; moist, friable 12 20 В 10YR 5/2 10YR 5/6 common distinct Clay; moist, firm; some small gravel Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. WETLAND DETERMINATION **X** No Hydric Soils Present? **X** No Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

SSA Inaugural Delineation Site:

Locale: W01SE13

Date: September 26, 2008 1 hours

AECOM: T.Radke; R.West By:

FLORISTIC QUALITY DATA

22 NATIVE SPECIES

c:\FQA\studies\SSA\Wetlands2008\Final\W01SE13.inv File:

Native

Tree

22

1

78.6%

3.6%

Adventive

6

Tree 0 0.0%

21.4%

28 2.4 1.9 11.1 9.8 -0.1 0.3	NATIVE SPECIES Total Species NATIVE MEAN C W/Adventives NATIVE FQI W/Adventives NATIVE MEAN W W/Adventives Faculative	Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	1 2 0 15 0 2 0 0 0	3.6% 7.1% 7.1% 0.0% 53.6% 0.0% 7.1% 0.0% 0.0% 0.0% 0.0%	Tree Shrub W-Vine H-Vine P-Fork A-Fork A-Gras P-Sedo	e 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0% 3.6% 0.0% 0.0% 0.0% 3.6% 0.0% 14.3% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBTRI	O Ambrosia trifida	ı		-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOSIB	2 Apocynum sibirio	um		-1	FAC+	Nt P-Forb	PRAIRIE INDIAN HEMP
ASCSYR	O Asclepias syriac	a		5	UPL	Nt P-Forb	COMMON MILKWEED
ASTERI	5 Aster ericoides			4	FACU-	Nt P-Forb	HEATH ASTER
ASTNOV	4 Aster novae-angl	iae		-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTPIL	0 Aster pilosus			2	FACU+	Nt P-Forb	HAIRY ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BROINE	0 BROMUS INERMIS			5	UPL	Ad P-Grass	HUNGARIAN BROME
CORSTO	6 Cornus stolonife	era		-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
ELAUMB	0 ELAEAGNUS UMBELL	ATA		5	UPL	Ad Shrub	AUTUMN OLIVE
EPICOL	3 Epilobium colora	tum		-5	OBL	Nt P-Forb	CINNAMON WILLOW HERB
EUPSEM	0 Eupatorium serot	inum		-1	FAC+	Nt P-Forb	LATE BONESET
GEULAT	2 Geum laciniatum	trichocarpum		-3	FACW	Nt P-Forb	ROUGH AVENS
HELGRO	2 Helianthus gross	eserratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
PHAARU	0 PHALARIS ARUNDIN	IACEA		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PHLPRA	0 PHLEUM PRATENSE			3	FACU	Ad P-Grass	TIMOTHY
POTSIS	4 Potentilla simpl	ex		4	FACU-	Nt P-Forb	COMMON CINQUEFOIL
PRUVLA	0 Prunella vulgari	s lanceolata		3	[FACU]	Nt P-Forb	SELF HEAL
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RORPAF	4 Rorippa palustri	s fernaldiana		-5	OBL	Nt A-Forb	MARSH CRESS
RUBALL	3 Rubus alleghenie	ensis		2	FACU+	Nt Shrub	COMMON BLACKBERRY
SOLALT	1 Solidago altissi	ma		3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG	4 Solidago gramini	folia		-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED

GOLDENROD

5 UPL Nt P-Forb OLD-FIELD GOLDENROD SOLNEM 4 Solidago nemoralis

VITRIP 2 Vitis riparia -2 FACW- Nt W-Vine RIVERBANK GRAPE

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/26/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-13 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Tiled drainageway in hydric soil unit in middle of cornfield. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Agrostis alba **FACW HERB** Elaeagnus umbelata UPL SHRUB 10 Helianthus grosseserratus FACW-**HERB** 30 8. Prunus serotina **FACU** TREE 5 Bromus inermis UPI **HFRB** 20 9. 3. Solidago altissima **FACU HERB** 30 10. Cornus stolonifera **FACW SHRUB** 50 11. 5. Rubus allegheniensis FACU+ **SHRUB** 20 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 60% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **Aerial Photos** Primary Indicators: X Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS review. Uncultivated depression in farmfield SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Typic Endoaquolls Yes **X** No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 12 3/2 NA NA NA NA Silty clay loam; moist, friable 12 21 В 10YR 5/1 10YR 6/6 common distinct Clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydric Soils Present? X Yes Nο X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland. Hydrology altered with field tile.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/26/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Community ID: Do Normal Circumstances Exist On The Site? Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-13 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Tiled drainageway in hydric soil unit in cornfield. VEGETATION Dominant Species (50/20 Rule) Ind. Status Ind.Status Stratum % Cover % Cover Species Name Species Name <u>Stratum</u> Agrostis alba **FACW** HERB Toxicodendron radicans UPL **SHRUB** 15 Helianthus grosseserratus FACW-**HERB** 10 8. Prunus serotina **FACU** TREE 5 **HERB** Bromus inermis UPL 60 9. 3. Solidago altissima **FACU HERB** 30 10. 5. Daucus carota UPL **HERB** 15 11. FACU+ Aster pilosus **HFRB** 10 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands **NA_** (in.) Secondary Indicators (2 or More Required): Depth of Surface Water: Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 10YR 0 12 3/2 NA NA NA NA Silty clay loam; moist, friable 12 21 В 10YR 5/1 10YR 6/6 common distinct Clay, moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION **X** No Hydric Soils Present? X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Site: SSA Inaugural Delineation

Locale: W01SE14

Date: September 25, 2008 1 hours
By: AECOM: T.Radke; R.West
File: c:\FQA\studies\SSA\Wetlands2008\Final4\W01SE14.inv

27 NA 31 T 3.1 NA 2.7 W 16.2 NA 15.1 W -0.3 NA 0.0 W	TIC QUALITY DATA TIVE SPECIES Total Species TIVE MEAN C T/Adventives TIVE FQI T/Adventives TIVE MEAN W T/Adventives Culative	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	27 7 3 1 0 12 0 3 1 0 0 0	87.1% 22.6% 9.7% 3.2% 0.0% 38.7% 0.0% 9.7% 3.2% 0.0% 0.0% 0.0%	Adventine Tree Shrub W-Vine H-Vine P-For A-For P-Gra A-Gra P-Sed A-Sed	0 1 e 0 0 e 0 0 b 0 0 b 1 b 0 0 ss 2 2 ss 0 0 ge 0	12.9% 0.0% 3.2% 0.0% 0.0% 0.0% 3.2% 0.0% 6.5% 0.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
ALISUB	4 Alisma subcordatum			-5	OBL	Nt P-Forb	COMMON WATER PLANTAIN
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
ANDGER	5 Andropogon gerardii			1	FAC-	Nt P-Grass	BIG BLUESTEM GRASS
ASTNOV	4 Aster novae-angliae			-3	FACW	Nt P-Forb	NEW ENGLAND ASTER
ASTSIS	3 Aster simplex			-5	OBL	Nt P-Forb	PANICLED ASTER
BIDFRO	1 Bidens frondosa			-3	FACW	Nt A-Forb	COMMON BEGGAR'S TICKS
CORSTO	6 Cornus stolonifera			-3	FACW	Nt Shrub	RED-OSIER DOGWOOD
CRAMOL	2 Crataegus mollis			4	FACU-	Nt Tree	DOWNY HAWTHORN
DAUCAR	O DAUCUS CAROTA			5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FRAVIR	1 Fragaria virginiana			1	FAC-	Nt P-Forb	WILD STRAWBERRY
HELGRO	2 Helianthus grossese	rratus		-2	FACW-	Nt P-Forb	SAWTOOTH SUNFLOWER
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
LONTAT	0 LONICERA TATARICA			5	[UPL]	Ad Shrub	TARTARIAN HONEYSUCKLE
POACOM	0 POA COMPRESSA			2	FACU+	Ad P-Grass	CANADA BLUE GRASS
POLSAN	6 Polygala sanguinea			3	FACU	Nt A-Forb	FIELD MILKWORT
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUSER	1 Prunus serotina			3	FACU	Nt Tree	WILD BLACK CHERRY
QUEMAC	5 Quercus macrocarpa			1	FAC-	Nt Tree	BUR OAK
QUEPAU	8 Quercus palustris			-3	FACW	Nt Tree	PIN OAK
RHURAD	2 Rhus radicans			-1	FAC+	Nt W-Vine	POISON IVY
RUBALL	3 Rubus allegheniensi	S		2	FACU+	Nt Shrub	COMMON BLACKBERRY
RUDHIR	1 Rudbeckia hirta			3	FACU	Nt P-Forb	BLACK-EYED SUSAN
SALAMY	5 Salix amygdaloides			-3	FACW	Nt Tree	PEACH-LEAVED WILLOW
SALINT	1 Salix interior			-5	OBL	Nt Shrub	SANDBAR WILLOW
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD

SOLGRG GOLDENROD	4 Solidago graminifolia	-2 FACW-	Nt P-Forb	COMMON GRASS-LEAVED
SOLJUN	5 Solidago juncea	5 UPL	Nt P-Forb	EARLY GOLDENROD
SOLNEM	4 Solidago nemoralis	5 UPL	Nt P-Forb	OLD-FIELD GOLDENROD
TYPANG	1 Typha angustifolia	-5 OBL	Nt P-Forb	NARROW-LEAVED CATTAIL
ULMAME	3 Ulmus americana	-2 FACW-	Nt Tree	AMERICAN ELM

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/25/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? POW/PEM X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SE-14 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Wetland is pond and emergent/shrub fringe. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Agrostis alba **FACW HERB** 7. Euthamia graminifolia FACW-**HERB** 10 Poa compressa FACU+ **HERB** 50 8. Toxicodendron radicans FAC+ **SHRUB** 10 Andropogon gerardii SHRUB 3. FAC-HFRB 25 Rubus allegheniensis FACU+ 20 9. Juncus dudleyi FAC **HERB** 10 10. Cornus stolonifera **FACW SHRUB** 100 5. Typha angustifolia OBL **HERB** 10 11. Populus deltoides FAC+ **TREE** 50 UPI Solidago juncea HFRB Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 75% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) X FAC-Neutral Test Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 0 Α 10YR 4/2 10YR common distinct Silty loam; moist, friable 10YR 5/6 common distinct 5 21 В 2.5YR 6/2 10YR 4/2 few distinct Clay; moist firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/25/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: R.West State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SE-14 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Pond excavated near stream corridor. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Species Name Ind. Status Species Name <u>Stratum</u> Agrostis alba **FACW** HERB 7. Quercus palustris **FACW** TREE 10 Cornus stolonifera **FACW SHRUB** 50 8. Populus deltoides FAC+ TREE 60 2. HFRB Pinus strobus 3. Daucus carota UPI 10 **FACU** TREE 30 9. Elaeagnus umbelata UPL **SHRUB** 15 10. Solidago nemoralis UPL HERB 25 Poa compressa FACU+ HERB 75 11. 5. FACW-Euthamia graminifolia **HFRB** 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 40% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well-drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 6 Α 4/2 NΑ NΑ NA NA Silty loam; moist, friable 10YR common faint 6 20 В 10YR 5/1 10YR 4/2 few distinct Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck X (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION X No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? X No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in wetland.

Inaugural South Suburban Airport Site:

Locale: W01SW1

September 11, 2008 30 minutes September 9, 2008 30 minutes AECOM; A. Amelse; M. Hildreth; R. West Date:

By: File:

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19 NA 25 T 2.4 NA 1.8 W 10.3 NA 9.0 W -1.2 NA -1.0 W	CIC QUALITY DATA ATIVE SPECIES Cotal Species ATIVE MEAN C J/Adventives ATIVE FQI J/Adventives ATIVE MEAN W J/Adventives ACULative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	19 3 0 0 0 7 0 4 1 1 2 1 0	76.0% 12.0% 0.0% 0.0% 0.0% 28.0% 0.0% 16.0% 4.0% 4.0% 8.0% 0.0%	Advent Tree Shrub W-Vine H-Vine P-Fork A-Fork A-Gras A-Gras P-Sedo	0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0	24.0% 0.0% 0.0% 4.0% 0.0% 0.0% 4.0% 8.0% 8.0% 0.0%
ACRONYM	C SCIENTIFIC NAME			W	WETNESS	PHYSIOGNOMY	COMMON NAME
ABUTHE	0 ABUTILON THEOPHRAST	I		4	FACU-	Ad A-Forb	VELVETLEAF
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP
AMBARE	O Ambrosia artemisiif	olia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED
APOCAN	4 Apocynum cannabinum			0	FAC	Nt P-Forb	INDIAN HEMP
BIDCER	5 Bidens cernua			-5	OBL	Nt A-Forb	NODDING BUR MARIGOLD
CXCRIS	4 Carex cristatella			-4	FACW+	Nt P-Sedge	CRESTED OVAL SEDGE
CXVULP	2 Carex vulpinoidea			-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
ECHCRU	O Echinochloa crusgalli			-3	FACW	Nt A-Grass	BARNYARD GRASS
ELEOBT	3 Eleocharis obtusa			-5	OBL	Nt A-Sedge	BLUNT SPIKE RUSH
FRAPES	1 Fraxinus pennsylvan	ica subintege	errima	0	FAC	Nt Tree	GREEN ASH
GEUCAN	1 Geum canadense			0	FAC	Nt P-Forb	WOOD AVENS
JUNDUD	4 Juncus dudleyi			0	[FAC]	Nt P-Forb	DUDLEY'S RUSH
JUNTEN	0 Juncus tenuis			2	[FACU+]	Nt P-Forb	PATH RUSH
PANVIR	5 Panicum virgatum			-1	FAC+	Nt P-Grass	SWITCH GRASS
PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad P-Grass	REED CANARY GRASS
PLAOCC	9 Platanus occidental	is		-3	FACW	Nt Tree	SYCAMORE
POLLAP	0 Polygonum lapathifo	lium		-4	FACW+	Nt A-Forb	HEARTSEASE
POPDEL	2 Populus deltoides			-1	FAC+	Nt Tree	EASTERN COTTONWOOD
PRUVLA	O Prunella vulgaris l	anceolata		3	[FACU]	Nt P-Forb	SELF HEAL
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL
SOLDUL	0 SOLANUM DULCAMARA			0	FAC	Ad W-Vine	BITTERSWEET NIGHTSHADE
SOLALT	1 Solidago altissima			3	FACU	Nt P-Forb	TALL GOLDENROD
SOLGRG GOLDENROD	4 Solidago graminifol	ia		-2	FACW-	Nt P-Forb	COMMON GRASS-LEAVED

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Will Investigator #1: Ann Amelse #2: Robyn West State: Illinois Upland Do Normal Circumstances Exist On The Site? Community ID: X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: This area is planted with trees. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover % Cover Species Name Species Name Ind. Status <u>Stratum</u> Solidago altissima FACU **HERB FACW** Fraxinus pennsylvanica shrub 5 Festuca pratensis FACU-**HERB** 25 8. Juncus torrevi **FACW HERB** 10 2. Phleum pratense FACU HFRB 9. 3. 10 --Poa compressa FACU+ **HERB** 45 10. --Quercus rubra **FACU** shrub 15 11. 5. Quercus macrocarpa **SHRUB** FAC-12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained Typic Endoaquolls Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** No Yes Profile Description: Mottle Colors Top Bottom Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 N 2.5/0 NA NΑ NA NA silty clay loam, moist, friable 8 14 Bt1 Ν 3/0 10YR 4/4 distinct silty clay, moist, firm common 14 21 Bt2 10YR 5/1 10YR 4/4 common prominent silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. Soil profile more closely matches Peotone series than Ashkum. WETLAND DETERMINATION Hydrophytic Vegetation Present? Yes **X** No Hydric Soils Present? X Yes No Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology has been impacted by tiles and construction activities on adjacent parcel.

The hydric soil indicators found are likely relict and indicative of historic conditions since hydrophytic vegetation is not dominant and wetland hydrology is not present.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/11/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Robyn West State: Illinois PEM/PFO Do Normal Circumstances Exist On The Site? Community ID: X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Area has been planted with trees in the past (probably 5-10 years ago) VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** Populus deltoides FAC+ **TREE** 8. 5 Fraxinus pennsylvanica **SHRUB FACW** 9. 5 Quercus macrocarpa FAC-**SHRUB** 10. __ 5 Platanus occidentalis **FACW SHRUB** 11. 5. 5 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 80% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: poorly drained **Typic Endoaquolls** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X Yes No Profile Description: Matrix Color Mottle Colors Top Bottom Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. oxidized rhizospheres 0 10 Ν 2.5/0 NA NA NA NA silty clay loam, moist, firm 10 15 Bt1 10YR 4/1 10YR 5/6 prominent silty clay, moist, firm common N 3.5/0 common prominent 15 22 Bt2 10YR 5/1 10YR prominent silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck X (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and X (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. Soil profile more closely matches Peotone series than Ashkum. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes Nο X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Robyn West State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S3 Yes (If yes, define below.) Remarks: Plot is located in tree plantation. VEGETATION Dominant Species (50/20 Rule) Ind.Status Species Name Stratum % Cover Species Name Ind. Status <u>Stratum</u> % Cover Festuca pratensis FACU-**HERB** 25 7. FACW+ HERB 10 Phalaris arundinacea Poa compressa FACU+ **HERB** 20 8. Aster lateriflorus FACW-HERB 2. 5 Melilotus alba FACU HFRB Fraxinus pennsylvanica SHRUB 10 3. 10 9. **FACW** Achillea millefolium FACU HERB 5 10. 5. Trifolium pratense FACU+ **HERB** 15 11. Solidago canadensis FACU **HFRB** 10 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 25% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): X No Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 9 Ap 10YR 2.5/1 NA NA NA NA ilt loam, moist, friable few rock fragments 9 16 Bt1 N 2.5/0 NA NA NA mucky silty clay loam, moist, friable NA 16 21 Bt2 10YR 3/1 10YR 4/4 common distinct silty clay, moist, firm 22 Bt3 10YR 4/1 10YR 21 4/4 distinct silty clay, moist, firm common Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. X (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? Yes X Yes No X No Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes Remarks: This plot is not located in a wetland. Historic aerial photos show evidence of drain tile in this field and adjacent fields. Hydrology has been impacted by tiles and construction activities on adjacent parcel.

The hydric soil indicators found are likely relict and indicative of historic conditions since hydrophytic vegetation is not dominant and wetland hydrology is not present

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Robyn West State: Illinois PEM/PFO Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S4 Yes (If yes, define below.) VEGETATION Dominant Species (50/20 Rule) Ind. Status Species Name Ind.Status Stratum % Cover Species Name <u>Stratum</u> % Cover Phalaris arundinacea FACW+ **HERB** 2. Bidens cernua OBL **HERB** 10 8. 9. 3. ----4. 10. --5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves X Local Soil Survey Data **NA** (in.) X FAC-Neutral Test Depth to Saturated Soil: Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 10 Ap 3/1 NA NA NA NA mucky silty clay loam, moist, friable 10 16 Ν 2.5/0 NA NA NA NA mucky silty clay loam, moist, friable Α 10YR 16 20 Bt 2/1 NA NA NA NA silty clay, moist, firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide X (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (F3) Depleted Matrix (A10) 2 cm Muck 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are dominant. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-1 Yes Is The Area A Potential Problem Area? X No Plot ID: S5 Yes (If yes, define below.) Remarks: This area is part of a private airport (Bult Field). Area has been filled and graded within the past 2-3 years. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover 1. Erigeron annuus FAC-HERB 10 Trifolium hybridum FAC-**HERB** 15 8. Poa compressa **HERB** FACU+ 3. 50 9. Ambrosia artemisiifolia FACU HERB 5 10. __ Setaria faberi FACU+ **HERB** 15 11. 5. Ambrosia trifida FAC+ HFRB 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly Drained** Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): **Typic Endoaquolls** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (F2) Loamy Gleyed Matrix (A5) Stratified Layers (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core taken.

Site: Inaugural South Suburban Airport

Locale: W01SW4a

September 23, 2008 1 hours AECOM:T.Radke R.Page Date:

By:

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ACRONYM C SCIENTIFIC NAME	18 N 26 2.5 N 1.7 10.6 N 8.8 -1.5 N	TIC QUALITY DATA ATIVE SPECIES Total Species ATIVE MEAN C W/Adventives ATIVE FQI W/Adventives ATIVE MEAN W W/Adventives aculative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge Cryptogam	18 1 2 2 0 9 0 2 1 0 1	69.2% 3.8% 7.7% 7.7% 0.0% 34.6% 0.0% 7.7% 3.8% 0.0% 3.8% 0.0% 0.0%	Adven Tree Shrub W-Vin H-Vin P-For B-For A-For P-Gra A-Gra P-Sed A-Sed	e e b b ss ss ge	8 2 0 0 0 1 1 0 4 0 0	30.8% 7.7% 0.0% 0.0% 0.0% 3.8% 3.8% 0.0% 15.4% 0.0% 0.0%
ANDGER 5 Andropogon gerardii 1 FAC- Nt P-Grass BIG BLUESTEM GRASS APOSTB 2 Apocynum sibiricum -1 FAC+ Nt P-Forb DARTRE INDIAN HEMP ASSYX 0 Asclepias syrlaca 5 UPL Nt P-Forb COMMON MILKWEED ASTNOV 4 Aster novae-angliae -3 FACW Nt P-Forb New ENGLAND ASTER ASTSIS 3 Aster simplex -5 ORL Nt P-Forb PANTCLED ASTER BIDCON 5 Bidens connata -5 ORL Nt A-Forb DURDLE STEMMED TICKSEED DIDFRO 1 Bidens frondosa -3 FACW Nt A-Forb COMMON BEGGAR'S TICKS CXVULP 2 Carex vulpinoidea -5 ORL Nt A-Forb COMMON BEGGAR'S TICKS CXVULP 2 Carex vulpinoidea -5 ORL Nt P-Forb COMMON BEGGAR'S TICKS CXVULP 2 Carex vulpinoidea -5 ORL Nt P-Forb COMMON BEGGAR'S TICKS CXVULP 2 Carex vulpinoidea -5 ORL Nt T-Feeb COMMON FOX SEDGR EBLGO 1 Faxinus pennsylvanica subintegerima 0 FAC Nt T-Forb SANTOCH SUNFLOWER <td< td=""><td>ACRONYM</td><td>C SCIENTIFIC NAME</td><td></td><td></td><td>W</td><td>WETNESS</td><td>РНҮ</td><td>SIOGNOMY</td><td>COMMON NAME</td></td<>	ACRONYM	C SCIENTIFIC NAME			W	WETNESS	РНҮ	SIOGNOMY	COMMON NAME
APOSIB 2 Apocynum sibiricum -1 FAC- Nt P-Forb PRAIRIE INDIAN HEMPS ASCSYR 0 Asclepias syriaca 5 UPL Nt P-Forb COMMON MILKWEED ASTRIV 4 Aster novae-angliae -3 FACW Nt P-Forb NEW ENGLAND ASTER ASTRIS 3 Aster simplex -5 OBL Nt A-Forb PURPLE-STERMED TICKSEED BIDCON 5 Bidens connata -5 OBL Nt A-Forb COMMON BEGGAR'S TICKSEED BIDERO 1 Bidens frondosa -3 FACW Nt A-Forb COMMON BEGGAR'S TICKSEED CXVULP 2 Carex vulpinoidea -5 OBL Nt P-Forb COMMON BEGGAR'S TICKSEED CXVULP 2 Carex vulpinoidea -5 OBL Nt P-Forb COMMON BEGGAR'S TICKSEED CXVULP 2 Carex vulpinoidea -5 OBL Nt P-Forb COMMON BEGGAR'S TICKSEED CXVULP 2 Carex vulpinoidea -5 OBL Nt P-Forb COMMON BEGGAR'S TICKSEED CXVULP 2 Carex vulpinoidea -5 OBL Nt Tree CROWN FOX SEDGE BUCCAR 2 Dictional Section -2 FACW- Nt P-Forb SANIOOTI SUNFLOWER	AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad	P-Grass	REDTOP
ASCSYR	ANDGER	5 Andropogon gerardii			1	FAC-	Nt	P-Grass	BIG BLUESTEM GRASS
ASTNOV	APOSIB	2 Apocynum sibiricum			-1	FAC+	Nt	P-Forb	PRAIRIE INDIAN HEMP
BIDCON 5 Bidens connata	ASCSYR	O Asclepias syriaca			5	UPL	Nt	P-Forb	COMMON MILKWEED
BIDCON 5 Bidens consta	ASTNOV	4 Aster novae-angliae			-3	FACW	Nt	P-Forb	NEW ENGLAND ASTER
BIDERO 1 Bidens frondosa	ASTSIS	3 Aster simplex			-5	OBL	Nt	P-Forb	PANICLED ASTER
CXVULP 2 Carex vulpinoidea -5 OBL Nt P-Sedge BROWN FOX SEDGE DAUCAR 0 DAUCUS CAROTA 5 UPL Ad B-Forb QUEEN ANNE'S LACE FESELA 0 FESTUCA ELATIOR 2 FACU- Ad P-Grass TALL FESCUE FRAPES 1 Fraxinus pennsylvanica subintegerrima 0 FAC Nt Tree GREEN ASH HELGRO 2 Helianthus grosseserratus -2 FACW- Nt P-Forb SAWTOOTH SUNFLOWER IRIVIS 5 Iris virginica shrevei -5 OBL Nt P-Forb BLUE FLAG MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG GOLDENROD 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SOLORG 6 SOLOHUS ULIGINOSUS 11 FAC- Ad P-Forb COMMON GRASS-LEAVED GOLDENROD 5 UPL Nt P-Forb COMMON GRASS-LEAVED COMMON SON THISTLE	BIDCON	5 Bidens connata			-5	OBL	Nt	A-Forb	PURPLE-STEMMED TICKSEED
DAUCAR 0 DAUCUS CAROTA 5 UPL Ad B-Forb QUEEN ANNE'S LACE FESELA 0 FESTUCA ELATIOR 2 FACU+ Ad P-Grass TALL FESCUE FRAPES 1 Fraxinus pennsylvanica subintegerrima 0 FAC Nt Tree GREEN ASH HELGRO 2 Helianthus grosseserratus -2 FACW- Nt P-Forb SAWTOOTH SUNFLOWER IRIVIS 5 Iris virginica shrevei -5 OBL Nt P-Forb BLUE FLAG MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY HAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb COMMON GRASS-LEAVED GOLDENNOD SOLORG 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SOLORG 6 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	BIDFRO	1 Bidens frondosa			-3	FACW	Nt	A-Forb	COMMON BEGGAR'S TICKS
FESELA 0 FESTUCA ELATIOR 2 FACU+ Ad P-Grass TALL FESCUE FRAPES 1 Fraxinus pennsylvanica subintegerrima 0 FAC Nt Tree GREEN ASH HELGRO 2 Helianthus grosseserratus -2 FACW- Nt P-Forb SAWTOOTH SUNFLOWER IRIVIS 5 Iris virginica shrevei -5 OBL Nt P-Forb BLUE FLAG MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS FOAFRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SALONA 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG OLDENROD 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SOLORG OLDENROD 4 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	CXVULP	2 Carex vulpinoidea			-5	OBL	Nt	P-Sedge	BROWN FOX SEDGE
FRAPES 1 Fraxinus pennsylvanica subintegerrima 0 FAC Nt Tree GREEN ASH HELGRO 2 Helianthus grosseserratus -2 FACW- Nt P-Forb SAWTOOTH SUNFLOWER IRIVIS 5 Iris virginica shrevei -5 OBL Nt P-Forb BLUE FLAG MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY HAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLAGR OCOLDENRO 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED GOLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SOLNEM 5 ONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	DAUCAR	0 DAUCUS CAROTA			5	UPL	Ad	B-Forb	QUEEN ANNE'S LACE
HELGRO 2 Helianthus grosseserratus -2 FACW- Nt P-Forb SAWTOOTH SUNFLOWER IRIVIS 5 Iris virginica shrevei -5 OBL Nt P-Forb BLUE FLAG MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLARD 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED GOLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	FESELA	0 FESTUCA ELATIOR			2	FACU+	Ad	P-Grass	TALL FESCUE
TRIVIS 5 Iris virginica shrevei	FRAPES	S 1 Fraxinus pennsylvanica subintegerrima			0	FAC	Nt	Tree	GREEN ASH
MORALB 0 MORUS ALBA 0 FAC Ad Tree WHITE MULBERRY PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG OLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	HELGRO	2 Helianthus grosseserratus			-2	FACW-	Nt	P-Forb	SAWTOOTH SUNFLOWER
PHAARU 0 PHALARIS ARUNDINACEA -4 FACW+ Ad P-Grass REED CANARY GRASS POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG OLDENROD 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	IRIVIS	5 Iris virginica shre	vei		-5	OBL	Nt	P-Forb	BLUE FLAG
POAPRA 0 POA PRATENSIS 1 FAC- Ad P-Grass KENTUCKY BLUE GRASS RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG OLDENROD TALL GOLDENROD SOLORM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	MORALB	0 MORUS ALBA			0	FAC	Ad	Tree	WHITE MULBERRY
RHURAD 2 Rhus radicans -1 FAC+ Nt W-Vine POISON IVY SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLORG GOLDENROD 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED GOLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	PHAARU	0 PHALARIS ARUNDINACE	A		-4	FACW+	Ad	P-Grass	REED CANARY GRASS
SALFRA 0 SALIX FRAGILIS -1 FAC+ Ad Tree CRACK WILLOW SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLGRG GOLDENROD 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	POAPRA	0 POA PRATENSIS			1	FAC-	Ad	P-Grass	KENTUCKY BLUE GRASS
SALINT 1 Salix interior -5 OBL Nt Shrub SANDBAR WILLOW SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLGRG GOLDENROD 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED GOLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	RHURAD	2 Rhus radicans			-1	FAC+	Nt	W-Vine	POISON IVY
SAMCAN 1 Sambucus canadensis -2 FACW- Nt Shrub ELDERBERRY SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLGRG GOLDENROD 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED OLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	SALFRA	0 SALIX FRAGILIS			-1	FAC+	Ad	Tree	CRACK WILLOW
SOLALT 1 Solidago altissima 3 FACU Nt P-Forb TALL GOLDENROD SOLGRG GOLDENROD 4 Solidago graminifolia -2 FACW- Nt P-Forb COMMON GRASS-LEAVED Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	SALINT	1 Salix interior			-5	OBL	Nt	Shrub	SANDBAR WILLOW
SOLGRG 4 Solidago graminifolia —2 FACW— Nt P-Forb COMMON GRASS-LEAVED GOLDENROD 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC— Ad P-Forb COMMON SOW THISTLE	SAMCAN	1 Sambucus canadensis			-2	FACW-	Nt	Shrub	ELDERBERRY
GOLDENROD SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE	SOLALT	1 Solidago altissima			3	FACU	Nt	P-Forb	TALL GOLDENROD
SOLNEM 4 Solidago nemoralis 5 UPL Nt P-Forb OLD-FIELD GOLDENROD SONULI 0 SONCHUS ULIGINOSUS 1 FAC- Ad P-Forb COMMON SOW THISTLE			ia		-2	FACW-	Nt	P-Forb	COMMON GRASS-LEAVED
					5	UPL	Nt	P-Forb	OLD-FIELD GOLDENROD
VITRIP 2 Vitis riparia -2 FACW- Nt W-Vine RIVERBANK GRAPE	SONULI	0 SONCHUS ULIGINOSUS			1	FAC-	Ad	P-Forb	COMMON SOW THISTLE
	VITRIP	2 Vitis riparia			-2	FACW-	Nt	W-Vine	RIVERBANK GRAPE

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/11/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: #2: Robert Page Teri Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-4a Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Plot is next to tiled stream channel photos 680-681 VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Ind. Status Species Name <u>Stratum</u> % Cover Aster simplex **FACW HERB** 50 Agrostis alba **FACW HERB** 30 8. Phalaris arundinacea 3. FACW+ HFRB 10 9. --Daucus carota UPL **HERB** 30 10. --__ 5. Festuca arundinacea FACU+ HERB 20 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: X Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. NRCS Review SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Top Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 7.5YR 0 11 A1 2/1 5/8 few faint silty clay loam, moist, friable concretions starting at 13 11 21 A2 10YR 2/1 7.5YR 5/8 common faint silty clay, moist firm 5YR 5/8 Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface X (A12) Thick Dark Surface (F7) Depleted Dark Surface 2Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? **X** Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport 09/11/08 Date: Project/Site: Will Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robert Page State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? W01SW-4a Yes X No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S2 (If yes, define below.) Remarks: This area is located in an old field/prairie community. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum Festuca arundinacea FACU+ **HERB** 75 7. 2. Lactuca pulchella FAC HERB 1 8. Aster ericoides FACU-HERB 3. 15 9. ELAEAGNUS UMBELLATA UPL Shrub 20 10. 4. ----5. Melilotus alba **FACU** HERB 5 11. HERB Daucus carota UPL 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches Water Marks No Recorded Data Available **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: NA (in.) Secondary Indicators (2 or More Required): Oxidized Root Channels In Upper 12 Inches **NA** (in.) Water-Stained Leaves Depth to Free Water: Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Faxonomy (Subgroup): **X** Yes No Profile Description: Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top **Bottom** Mottle (Munsell Moist): (Munsell Moist): Depth Depth Horizon Abundance/Contrast and other soil characteristics. 0 8 Α1 10YR 4/2 NA NA NA Silty clay; moist, firm 10YR 5/4 distinct common 8 21 A2 10YR 4/2 10YR 6/6 many prominent clay; moist, very firm Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. Plot location at boundary of two mapped soil units, Ozaukee and Ashkum. Soil profile resembles Ozaukee WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport 09/22/08 Project/Site: Date: Will Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robert Page State: Illinois Do Normal Circumstances Exist On The Site? X Yes Community ID: PEM No Is The Site Significantly Disturbed (Atypical Situation)? W01SW-4a X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S3 Yes (If yes, define below.) Remarks: Plot next to tiled stream channel. VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Phalaris arundinacea FACW+ **HERB** 75 7. 1. **HERB** 2. Helianthus grosseserratus FACW-30 8. Solidago altissima **FACU** HERB 3. 30 9. **HERB** 10. 4. Plantago rugelii FAC 1 ----5. Daucus carota UPL HERB 1 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: Water-Stained Leaves 10 (in.) X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: 10 (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Series Drainage Class: Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes **Poorly Drained** Field Observations Confirm Mapped Type? **Typic Endoaquolls** Faxonomy (Subgroup): **X** Yes No Profile Description: Bottom Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top Mottle (Munsell Moist): (Munsell Moist): and other soil characteristics. Depth Depth Horizon Abundance/Contrast 0 10 Α1 10YR 2/1 7.5YR common silty clay loam; moist, friable 10 22 A2 10YR 3/1 7.5YR 4/6 common distinct sandy clay loam; wet, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport 09/22/08 Project/Site: Date: Will Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robert Page State: Illinois Do Normal Circumstances Exist On The Site? X Yes Community ID: PEM No Is The Site Significantly Disturbed (Atypical Situation)? W01SW-4a X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S4 Yes (If yes, define below.) Remarks: Plot next to tiled stream channel. VEGETATION Dominant Species (50/20 Rule) Species Name Ind.Status Stratum % Cover Species Name Ind. Status Stratum % Cover Phalaris arundinacea FACW+ **HERB** 75 7. 1. **HERB** 2. Helianthus grosseserratus FACW-30 8. Solidago altissima **FACU** HERB 3. 30 9. **HERB** 10. 4. Plantago rugelii FAC 1 ----5. Daucus carota UPL HERB 1 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) X Oxidized Root Channels In Upper 12 Inches Depth to Free Water: Water-Stained Leaves 10 (in.) X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: 10 (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: Poorly drained Field Observations Confirm Mapped Type? **Typic Endoaquolls** Faxonomy (Subgroup): **X** Yes No Profile Description: Bottom Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top Mottle (Munsell Moist): and other soil characteristics. Depth Depth Horizon (Munsell Moist): Abundance/Contrast 2.5 distinct few 0 16 Α1 10YR 3/1 10YR common silty clay loam; moist, friable 16 22 A2 10YR 2/1 10YR 4/6 common distinct silty clay loam; wet, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? X Yes No Hydric Soils Present? X Yes No Wetland Hydrology Present? Is This Sampling Point Within A Wetland? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Inaugural South Suburban Airport 09/22/08 Date: Project/Site: Will Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Teri Radke #2: Robert Page State: Illinois Do Normal Circumstances Exist On The Site? X Yes Community ID: Upland No Is The Site Significantly Disturbed (Atypical Situation)? W01SW-4a X Yes No Station ID: Is The Area A Potential Problem Area? X No Plot ID: S5 Yes (If yes, define below.) Remarks: Plot next to tiled stream channel. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name Stratum Phalaris arundinacea FACW+ **HERB** 100 7. 2. Helianthus grosseserratus FACW-HERB 20 8. 3. 9. 4. 10. ----------5. 11. 6 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. HYDROLOGY X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Water-Stained Leaves Depth to Free Water: 20 (in.) X Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: NA (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained** Field Observations Confirm Mapped Type? **Typic Endoaquolls** Faxonomy (Subgroup): Yes X No Profile Description: Bottom Matrix Color Mottle Colors Texture, moisture, consistency, organic material, Top Mottle (Munsell Moist): (Munsell Moist): Depth Depth Horizon Abundance/Contrast and other soil characteristics 0 17 Α1 10YR 3/1 10YR 5/6 silty clay; moist, friable 17 20 A2 10YR 2/1 10YR 4/6 common distinct silty clay loam; moist, friable Hydric Soil Indicators2: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix 1Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions 2Source: Field Indicators of Hydric Soils in the U.S. (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soil indicators not present buried horizon WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? **X** No Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-4a X Yes Is The Area A Potential Problem Area? X No Plot ID: S6 Yes (If yes, define below.) Remarks: Field tile installed in drainage channel <100ft from soil core. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia trifida FAC+ HERB Aster pilosus FACU+ **HERB** 8. 2. 1 3. Cirsium arvense FACU HFRB 5 9. Daucus carota UPL **HERB** 40 10. __ Festuca elation UPL **HERB** 50 11. 5. FACU Phleum pratense **HFRB** 20 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 20 (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: 19 (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X No Yes Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Abundance/Contrast Depth Depth Horizon (Munsell Moist) (Munsell Moist): and other soil characteristics 0 16 Α 10YR 3/1 NΑ NΑ NA NA Silty clay loam; moist, friable, rooty; concretion at 9" 10YR 6/4 10YR 4/3 many distinct 16 20 В 10YR 3/2 10YR few prominent Silty clay loam; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-4a X Yes Is The Area A Potential Problem Area? X No Plot ID: **S7** Yes (If yes, define below.) Remarks: Field tile installed in drainage channel <50ft from soil core. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Bromus inermis UPL HERB 10 Helianthus grosseserratus FACW-**HERB** 25 8. Phalaris arundinacea FACW+ **HERB** 3. 50 9. Solidago altissima **FACU HERB** 30 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 66% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? X Yes No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 10YR 0 8 Α 2.5/1 4/6 few distinct Silty clay; moist, friable, rooty; 8 13 A2 10YR 2/1 10YR 5/6 common distinct Silty clay; moist, friable 13 10YR 20 АЗ 3/2 10YR 5/3 common prominent Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

Inaugural South Suburban Airport Site:

Locale: W01SW4b

SALINT

SOLALT

1 Salix interior

1 Solidago altissima

September 23, 2008 1 hours Date:

By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SW4b.inv

FLORISTIC QUALITY	DATA Native	8	53.3%	Advent	ive 7	46.7%	
8 NATIVE SPECIE		0	0.0%	Tree	0	0.0%	
15 Total Specie	es Shrub	2	13.3%	Shrub	0	0.0%	
1.6 NATIVE MEAN (W-Vine	0	0.0%	W-Vine	0	0.0%	
0.9 W/Adventives	H-Vine	0	0.0%	H-Vine	0	0.0%	
4.6 NATIVE FQI	P-Forb	4	26.7%	P-Forb	0	0.0%	
3.4 W/Adventives	B-Forb	0	0.0%	B-Forb	2	13.3%	
-0.1 NATIVE MEAN W	N A-Forb	1	6.7%	A-Forb	0	0.0%	
1.0 W/Adventives	P-Grass	0	0.0%	P-Gras	s 5	33.3%	
AVG: Faculative	A-Grass	0	0.0%	A-Gras	s 0	0.0%	
	P-Sedge	1	6.7%	P-Sedge	e 0	0.0%	
	A-Sedge	0	0.0%	A-Sedge	e 0	0.0%	
	Cryptogam	0	0.0%				
ACRONYM C SCIENTIE	FIC NAME		W	WETNESS 1	PHYSIOGNOMY	COMMON NAM	E
AMBTRI 0 Ambrosia	a trifida		-1	FAC+	Nt A-Forb	GIANT RAGW	EED
ASCSYR 0 Asclepia	as syriaca		5	UPL 1	Nt P-Forb	COMMON MIL	KWEED
ASTSIS 3 Aster s	implex		-5	OBL I	Nt P-Forb	PANICLED A	STER
BROINE 0 BROMUS I	INERMIS		5	UPL Z	Ad P-Grass	HUNGARIAN I	BROME
CXVULP 2 Carex vu	ılpinoidea		-5	OBL I	Nt P-Sedge	BROWN FOX	SEDGE
DAUCAR 0 DAUCUS 0	CAROTA		5	UPL 2	Ad B-Forb	OUEEN ANNE	'S LAC

-5 OBL

3 FACU

Nt Shrub

SANDBAR WILLOW

Nt P-Forb TALL GOLDENROD

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: County: Applicant/Owner: Illinois Department of Transportation Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? PSS/PEM X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-4b X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Drainageway/ephemeral stream with drainage tile down the middle. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Bromus inermis UPL HERB 7. Phalaris arundinacea FACW+ **HERB** 20 10 Aster simplex **FACW HERB** 20 8. Rubus allegheniensis FACU+ **SHRUB** 10 SHRUB FACU+ **HERB** Salix exigua 75 Poa compressa 20 OBL 3. 9. Daucus carota UPL **HERB** 10 10. Festuca elation UPL **HERB** 10 11. 5. FACU Phleum pratense HFRB 10 12. 75% Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Willow thicket dominates drainageway; Hydrophytic vegetation is dominant in channel. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Oxyaquic Hapludalfs Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Abundance/Contrast Depth Depth Horizon (Munsell Moist) (Munsell Moist): and other soil characteristics. 0 Α 10YR 3/2 10YR few faint Silty clay; moist, friable 10YR 5.5/6 common prominen 3 20 A2 10YR 3/1 10YR common prominent Silty clay; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. WETLAND DETERMINATION Hydric Soils Present? **X** Yes X Yes Nο Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No No Remarks: Tile drainage removes water from site; hydrophytic vegetation appears only at lowest point in drainageway.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No Upland Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-4b Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Upland point in old field on terrace next to tiled drainageway **VEGETATION Dominant Species (50/20 Rule)** Ind.Status Stratum % Cover % Cover Ind. Status Species Name Species Name **Stratum** Festuca elatior UPL **HERB** Rubus allegheniensis FACU+ **SHRUB** 10 8. Solidago altissima **FACU HERB** 9. 3. 50 Daucus carota UPL **HERB** 10 10. Ulmus americana FACW-TREE 10 11. FACU Dactvlis alomerata **HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ozaukee silt loam Series Drainage Class: Moderately well drained Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Field Observations Confirm Mapped Type? **X** No Yes Profile Description: Mottle Colors Top **Bottom** Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. <u>10</u>YR 0 10 A1 10YR 3/1 4/6 few faint Silty clay; moist, firm 10 20 A2 10YR 3/1 10YR 4/6 common prominent Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Soil does not meet criteria for hydric soils. Many concretions starting at 10" WETLAND DETERMINATION Hydric Soils Present? **X** No X No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/23/08 Project/Site: **South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke #2: **R.Page** State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: UW01SW-4c X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Agricultural drainage tile is present VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status % Cover Species Name <u>Stratum</u> Bromus inermis UPL **HERB** 30 7. Phalaris arundinacea FACW+ HERB 10 Aster simplex **FACW** HERB 10 8. Rubus allegheniensis FACU+ **SHRUB** 10 Poa compressa SHRUB **HERB** Salix exigua 75 3. FACU+ 30 OBL 9. Daucus carota UPL HERB 10 10. Festuca elation UPL **HERB** 30 11. 5. **FACU HERB** Phleum pratense 30 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. Water moves through area after rain event but does not remain long enough for hydrophytic vegetation to become dominant SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes **x** No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist) (Munsell Moist): Abundance/Contrast and other soil characteristics 0 A1 10YR 3/2 10YR few faint Silty clay; moist, friable 10YR 5.5/6 common prominen 3 20 A2 10YR 3/1 10YR common prominent Silty clay; moist, friable Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (F8) Redox Depressions (S1) Sandy Mucky Mineral (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION X** No Hydric Soils Present? Nο X Yes Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? X Yes No Yes Remarks: This plot is not located in a wetland. Hydric soils are apparently relics of a time before tile drainage. Water appears to move through area, but does not

remain long enough for hydrophytic vegetation to become dominant.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/10/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland Yes X No Is The Site Significantly Disturbed (Atypical Situation)? **X** No Station ID: W01SW-5 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Mowed field Hydrophytic vegetation and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Ind. Status Species Name Stratum % Cover Species Name <u>Stratum</u> % Cover Solidago canadensis FACU **HERB** Trifolium pratense FACU+ **HERB** 8. **HERB** 3. Poa compressa FACU+ --9. --__ 10. __ 5. 11. 6 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core taken

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/10/08 County: Applicant/Owner: Illinois Department of Transportation Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Upland Do Normal Circumstances Exist On The Site? X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? X No Station ID: W01SW-6 Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Soybeans planted through grassed swale Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Ambrosia artemisiifolia FACU **HERB** Ambrosia trifida FAC+ **HERB** 8. Glycine max **HERB** UPL 3. --9. --Festuca pratensis FACU-**HERB** __ 10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? No soil core taken Taxonomy (Subgroup): **Oxyaquic Hapludalfs** Yes No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core taken

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual) 11/05/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T.Radke #2: R. West State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-7 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Tiled, grassed waterway in soybean field herbicided; vegetation parameter altered **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Setaria faberi FACU+ **HERB** Ambrosia artemisiifolia **FACU HERB** 8. Physalis subglabrata UPL **HERB** 3. 9. Ranunculus abortivus FACW-**HERB** --10. ----5. glycine max UPL **HERB** 11. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 20% Remarks: Hydrophytic vegetation not dominant. Beans harvested; per owner, grassed waterway herbicided. **HYDROLOGY** Wetland Hydrology Indicators: X Recorded Data (Describe in Remarks): Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks **Drift Lines** Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. NRCS Review SOILS Map Unit Name: Ashkum silty clay loam/Ozaukee silt loam Series Drainage Class: Poorly drained/Moderately well drained Taxonomy (Subgroup): Typic Endoaquolls/Oxyaquic Haplud Field Observations Confirm Mapped Type? No soil core taken No Profile Description: Matrix Color Top Bottom Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): and other soil characteristics Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Both hydric and non-hydic soils are mapped. No soil core taken. **WETLAND DETERMINATION** Hydric Soils Present? * No X No Yes Hydrophytic Vegetation Present? Wetland Hydrology Present? Yes X No Is This Sampling Point Within A Wetland? Yes X No Remarks: This plot is not located in wetland. *No soil core taken

Site: Inaugural South Suburban Airport

Locale: W01SW8

Date: September 23, 2008 1 hours
By: AECOM: T.Radke; R.Page
File: c:\FQA\studies\SSA\Wetlands2008\Final\W01SW8.inv

FLORIST	IC QUALITY DATA	Native	1	12.5%		Adven	tive 7	87.5%
	TIVE SPECIES	Tree	0	0.0%		Tree	0	0.0%
8 T	otal Species	Shrub	0	0.0%		Shrub	0	0.0%
2.0 NA	TIVE MEAN C	W-Vine	0	0.0%		W-Vin	e 0	0.0%
0.3 W	/Adventives	H-Vine	0	0.0%		H-Vin	e 0	0.0%
2.0 NA	TIVE FQI	P-Forb	0	0.0%		P-For	b 1	12.5%
0.7 W	/Adventives	B-Forb	0	0.0%		B-For	b 1	12.5%
-5.0 NA	TIVE MEAN W	A-Forb	0	0.0%		A-For	b 0	0.0%
0.3 W	/Adventives	P-Grass	0	0.0%		P-Gra	ss 5	62.5%
AVG: Ob	l. Wetland	A-Grass	0	0.0%		A-Gra	ss 0	0.0%
		P-Sedge	1	12.5%		P-Sed	ge 0	0.0%
		A-Sedge	0	0.0%		A-Sed	ge 0	0.0%
		Cryptogam	0	0.0%				
ACRONYM	C SCIENTIFIC NAME				W	WETNESS	PHYSIOGNOM	IY COMMON NAME
AGRREP	0 AGROPYRON REPENS				3	FACU	Ad P-Grass	QUACK GRASS
AGRALA	0 AGROSTIS ALBA				-3	FACW	Ad P-Grass	REDTOP
BROINE	0 BROMUS INERMIS				5	UPL	Ad P-Grass	HUNGARIAN BROME
CXVULP	2 Carex vulpinoidea				-5	OBL	Nt P-Sedge	BROWN FOX SEDGE
DAUCAR	O DAUCUS CAROTA				5	UPL	Ad B-Forb	QUEEN ANNE'S LACE
FESELA	O FESTUCA ELATIOR				2	FACU+	Ad P-Grass	TALL FESCUE
PHAARU	O PHALARIS ARUNDINACE	ZA			-4	FACW+	Ad P-Grass	REED CANARY GRASS
RUMCRI	0 RUMEX CRISPUS				-1	FAC+	Ad P-Forb	CURLY DOCK

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? X Yes No Community ID: PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-8 X Yes Is The Area A Potential Problem Area? X No Plot ID: S2 Yes (If yes, define below.) Remarks: Field tile installed in drainage channel <50ft from soil core. **VEGETATION** Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** 40 Carex vulpinoidea OBL **HERB** 40 8. 3. Daucus carota UPI HFRB 10 9. Festuca elatior UPL HERB 10 10. --__ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated X Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: <1 (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: **Poorly drained** Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Matrix Color Mottle Colors Top Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 10YR 0 17 Α 10YR 3/2 common prominent Silty clay; moist, friable 17 21 В 10YR 5/2 10YR 6/8 common prominent Silty clay; moist, firm Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (A10) 2 cm Muck (F3) Depleted Matrix wetland hydrology must be present. (A11) Depleted Below Dark Surface X (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are present. **WETLAND DETERMINATION** Nο Hydric Soils Present? X Yes X Yes Nο Hydrophytic Vegetation Present? Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) **Inaugural South Suburban Airport** 09/23/08 Project/Site: Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: AECOM; T. Radke State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-8 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Field tile installed in drainage channel <100ft from soil core. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW** HERB Carex vulpinoidea OBL **HERB** 30 8. 2. Bromus inermis 3. UPI **HFRB** 20 9. Festuca elatior UPL **HERB** 30 10. --__ Phalaris arundinacea FACW+ HERB 11. 5. 5 FAC+ HFRB Rumex crispus 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 50% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other (Describe in Remarks) Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: 16 (in.) Water-Stained Leaves X Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test** 15 (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. SOILS Map Unit Name: Ashkum silty clay loam Series Drainage Class: Poorly drained Taxonomy (Subgroup): Typic Endoaquolls Field Observations Confirm Mapped Type? Yes X No Profile Description: Bottom Mottle Colors Top Matrix Color Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 17 Α 10YR 4/2 10YR many prominent Silty clay; moist, firm 10YR 5/6 17 21 В 10YR 4/2 7.5YR 6/8 prominent Silty clay; moist, firm many Hydric Soil Indicators²: Indicators for Problematic Hydric Soils¹: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix ¹Indicators of hydrophytic vegetation and (F3) Depleted Matrix (A10) 2 cm Muck wetland hydrology must be present. (A11) Depleted Below Dark Surface (F6) Redox Dark Surface (A12) Thick Dark Surface (F7) Depleted Dark Surface ²Source: Field Indicators of Hydric Soils in the U.S. (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Version 6.0 (NRCS, 2006) Remarks: Hydric soils are not present. **WETLAND DETERMINATION** X No Hydric Soils Present? **X** No Hydrophytic Vegetation Present? Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-9 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Area recently filled and graded during construction on Bult Field property. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Trifolium hybridum FAC-HERB 10 Erigeron annuus FAC-**HERB** 20 8. **HERB** Poa compressa FACU+ 50 3. 9. --Setaria glauca FAC **HERB** 10 10. __ 5. Ambrosia artemisiifolia **FACU HERB** 10 11. 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (F12) Iron-Manganese Masses (S5) Sandy Redox (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core taken

Site: Inaugural South Suburban Airport

Locale: W01SW10

Date: September 25, 2008 30 minutes

By: AECOM; A.Amelse; M. Hildreth

File: c:\FQA\studies\SSA\Wetlands2008\Final4\W01SW10FQI.inv

8 NA 15 T 0.9 NA 0.5 W 2.5 NA 1.8 W -1.4 NA -0.8 W	CIC QUALITY DATA CTIVE SPECIES Cotal Species CTIVE MEAN C M/Adventives CTIVE FQI M/Adventives CTIVE MEAN W M/Adventives CCULative (+)	Native Tree Shrub W-Vine H-Vine P-Forb B-Forb A-Forb P-Grass A-Grass P-Sedge A-Sedge	8 0 0 0 0 2 0 3 0 3 0	0.00	Adven Tree Shrub W-Vin H-Vin P-For A-For A-Gra A-Gra P-Sed A-Sed	e 0 0 e 0 b 3 b 0 b 1 ss 1 ss 2 ge 0	46.7% 0.0% 0.0% 0.0% 0.0% 0.0% 20.0% 0.0% 6.7% 6.7% 13.3% 0.0% 0.0%	
ACRONYM	C SCIENTIFIC NAME	Cryptogam	O		WETNESS	PHYSIOGNOMY	COMMON NAME	
AGRALA	0 AGROSTIS ALBA			-3	FACW	Ad P-Grass	REDTOP	
AMBARE	O Ambrosia artemisii	folia elatior		3	FACU	Nt A-Forb	COMMON RAGWEED	
AMBTRI	O Ambrosia trifida			-1	FAC+	Nt A-Forb	GIANT RAGWEED	
BIDCON	5 Bidens connata			-5	OBL	Nt A-Forb	PURPLE-STEMMED TICKSE	ED
ECHCRU	O Echinochloa crusgalli			-3	FACW	Nt A-Grass	BARNYARD GRASS	
JUNTEN	0 Juncus tenuis			2	[FACU+]	Nt P-Forb	PATH RUSH	
PANCAP	1 Panicum capillare			0	FAC	Nt A-Grass	OLD WITCH GRASS	
PANDII	0 Panicum dichotomif	lorum		-2	FACW-	Nt A-Grass	KNEE GRASS	
PLAMAJ	O PLANTAGO MAJOR			-1	FAC+	Ad P-Forb	COMMON PLANTAIN	
POLPER	0 POLYGONUM PERSICAR	IA		1	[FAC-]	Ad A-Forb	LADY'S THUMB	
RUMCRI	0 RUMEX CRISPUS			-1	FAC+	Ad P-Forb	CURLY DOCK	
SETFAB	O SETARIA FABERI			2	FACU+	Ad A-Grass	GIANT FOXTAIL	
SETGLA	O SETARIA GLAUCA			0	FAC	Ad A-Grass	YELLOW FOXTAIL	
TRIHYB	0 TRIFOLIUM HYBRIDUM			1	FAC-	Ad P-Forb	ALSIKE CLOVER	
TYPANG	1 Typha angustifolia			-5	OBL	Nt P-Forb	NARROW-LEAVED CATTAIL	ı

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: X Yes No PEM Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-10 X Yes Is The Area A Potential Problem Area? X No Plot ID: S1 Yes (If yes, define below.) Remarks: Area appears to have been graded in recent years VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover Agrostis alba **FACW HERB** Echinochloa crusgalli **FACW HERB** 10 8. Polygonum persicaria **FACW HFRB** 9. 3. 5 Poa compressa FACU+ **HERB** 15 10. __ Setaria glauca FAC **HERB** 5 11. 5. Trifolium hybridum FAC-**HFRB** 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 100% Remarks: Hydrophytic vegetation is dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines X Sediment Deposits Field Observations: Drainage Patterns in Wetlands Depth of Surface Water: Secondary Indicators (2 or More Required): NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) X Water-Stained Leaves Local Soil Survey Data X FAC-Neutral Test Depth to Saturated Soil: **NA** (in.) X Other (Explain in Remarks) Remarks: Wetland hydrology is present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: **Beecher silt loam, 2 to 4 percent slopes** Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): Yes **X** No Profile Description: Matrix Color Mottle Colors Top **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 3.5 Α 2.5Y 3/2 2.5Y common distinct silty clay loam, moist, friable 3.5 6.5 В 2.5Y 4/2 10YR 4/4 common distinct clay, moist, firm 10Y 5/1 common prominent 2.5Y 6.5 20 В 4.5/3 10YR 4/4 common distinct clay, dry, very firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral **X** (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are present. WETLAND DETERMINATION Hydrophytic Vegetation Present? No Hydric Soils Present? X Yes No X Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? X Yes No X Yes No Remarks: This plot is located in a wetland.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) 09/25/08 Project/Site: **Inaugural South Suburban Airport** Date: Applicant/Owner: Illinois Department of Transportation Will County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Community ID: Upland X Yes No Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01SW-10 X Yes X No Is The Area A Potential Problem Area? Plot ID: S2 Yes (If yes, define below.) Remarks: Area appears to have been graded within the past year VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover 1. Ambrosia artemisiifolia FACU **HERB** 7. 5 Echinochloa crusgalli **FACW HERB** 5 8. 2. 10 Setaria faheri FACU+ **HFRB** 3. 9. Poa compressa FACU+ **HERB** 40 10. __ Setaria glauca FAC **HERB** 10 11. 5. Trifolium hybridum FAC-**HERB** 25 12 Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY X** Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos **Primary Indicators:** Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **NA** (in.) **FAC-Neutral Test** Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: **Beecher silt loam, 2 to 4 percent slopes** Series Drainage Class: Somewhat poorly drained **Udollic Epiaqualfs** Field Observations Confirm Mapped Type? Taxonomy (Subgroup): **X** Yes No Profile Description: Matrix Color Mottle Colors Top **Bottom** Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. 0 4.5 Α 2.5Y 3/2 NA NA NA NA clay loam, moist, friable 4.5 В 10YR 4/3 7.5YR 5/6 distinct silty clay loam, moist, firm 11 common 10YR 11 20 Bt 2.5Y 4.5/3 5/6 common distinct clay, dry, very firm Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (A1) Histosol (S4) Sandy Gleyed Matrix (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydric soils are not present. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? **X** No Yes Yes Is This Sampling Point Within A Wetland? Wetland Hydrology Present? Yes X No Yes X No Remarks: This plot is not located in a wetland. Area appears to have been disturbed by grading.

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland X Yes No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-11 X Yes Is The Area A Potential Problem Area? X No Plot ID: NA Yes (If yes, define below.) Remarks: Area recently filled and graded during construction on Bult Field property. Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Species Name Ind. Status Species Name <u>Stratum</u> % Cover Ambrosia artemisiifolia FACU HERB 10 Trifolium hybridum FAC-**HERB** 15 8. Trifolium pratense FACU+ **HFRB** 5 3. 9. --Setaria faberi FACU+ **HERB** 15 10. __ Poa compressa FACU+ **HERB** 40 11. **HERB** FACU Agropyron repens 15 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): 0% Remarks: Hydrophytic vegetation is not dominant. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge **X** None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data **FAC-Neutral Test** Depth to Saturated Soil: **NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ozaukee silt loam, 4 to 6 percent slopes, eroded Series Drainage Class: Moderately well drained Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): **Oxyaquic Hapludalfs** No Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Hydrophytic vegetation not dominant and wetland hydrology not present, so soil core not taken. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core collected

DATA FORM **ROUTINE WETLAND DETERMINATION** (1987 COE Wetlands Delineation Manual) Project/Site: **Inaugural South Suburban Airport** Date: 09/25/08 Applicant/Owner: Illinois Department of Transportation County: Investigator #1: Ann Amelse #2: Matt Hildreth State: Illinois Do Normal Circumstances Exist On The Site? Upland Yes X No Community ID: Is The Site Significantly Disturbed (Atypical Situation)? No Station ID: W01NW-12 X Yes Is The Area A Potential Problem Area? X No Plot ID: Yes (If yes, define below.) Remarks: No vegetation or soil data collected; entire polygon is beneath concrete parking pad and hangar area. VEGETATION Dominant Species (50/20 Rule) Ind.Status Stratum % Cover Ind. Status Species Name Species Name <u>Stratum</u> % Cover 2. 8. 3. --9. --4. ----10. __ 5. 11. 12. Percent of Dominant Species That Are OBL, FACW, Or FAC (Excluding FAC-): Remarks: Hydrophytic vegetation is not dominant. No vegetation present. **HYDROLOGY** X Recorded Data (Describe in Remarks): Wetland Hydrology Indicators: Stream, Lake, Or Tide Gauge X None X Aerial Photos Primary Indicators: Other Inundated Saturated in Upper 12 Inches No Recorded Data Available Water Marks Drift Lines Sediment Deposits Field Observations: Drainage Patterns in Wetlands Secondary Indicators (2 or More Required): Depth of Surface Water: NA (in.) Oxidized Root Channels In Upper 12 Inches Depth to Free Water: NA (in.) Water-Stained Leaves Local Soil Survey Data Depth to Saturated Soil: **FAC-Neutral Test NA** (in.) Other (Explain in Remarks) Remarks: Wetland hydrology is not present. Aerial photos used for NRCS slide review. SOILS Map Unit Name: Ashkum silty clay loam, 0 to 2 percent slopes Series Drainage Class: **Poorly drained Typic Endoaquolls** Field Observations Confirm Mapped Type? No soil core collected Taxonomy (Subgroup): No Yes Profile Description: Top Bottom Matrix Color Mottle Colors Mottle Texture, moisture, consistency, organic material, Depth Depth Horizon (Munsell Moist): (Munsell Moist): Abundance/Contrast and other soil characteristics. Hydric Soil Indicators: Indicators for Problematic Hydric Soils1: (S4) Sandy Gleyed Matrix (A1) Histosol (A16) Coast Prairie Redox (A2) Histic Epipedon (S5) Sandy Redox (F12) Iron-Manganese Masses (A3) Black Histic (S6) Stripped Matrix Other (Explain in Remarks) (A4) Hydrogen Sulfide (F1) Loamy Mucky Mineral (A5) Stratified Layers (F2) Loamy Gleyed Matrix (A10) 2 cm Muck (F3) Depleted Matrix 1Indicators of hydrophytic vegetation and (A11) Depleted Below Dark Surface (F6) Redox Dark Surface wetland hydrology must be present. (A12) Thick Dark Surface (F7) Depleted Dark Surface (S1) Sandy Mucky Mineral (F8) Redox Depressions (S3) 5 cm Mucky Peat or Peat Remarks: Unable to take soil core. WETLAND DETERMINATION Hydrophytic Vegetation Present? **X** No Hydric Soils Present? * No Yes Yes Is This Sampling Point Within A Wetland? X No Wetland Hydrology Present? Yes X No Yes Remarks: This plot is not located in a wetland. *No soil core collected