

**Appendix B. Sandpiper Observation Field Forms**

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MEB = Matthew Bayle

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	MBL	LOCATION	BEHAVIOR
Data Observer	Kenn Li (KDL)	A	air
Weather	Mainly Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page	1 of 10	FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
none	8:59	none	Start survey	122.20.734	47.34.233		Start of Survey		
GBH	9:10	1	Segment 3	122.20.773	47.33.993	East	FN	on RR edge	-
osprey	9:11	1	Segment 3 <sup>T105</sup> on W Bank on west	11	11	190	N (seen on west)		4
GBH	9:15	1	Start of segment 4 @ Row along outfall	122.20.746	47.33.801	E	FN	caught fish	5
GBH	9:20	1	on RR	122.20.722	47.33.767	S	R, FL	Resting on dock, flew N then X to W bank	-
W. Ibis	9:28	2	Start of segment 5 on Rocky/Sandy shelf behind Pier	122.20.719	47.33.702	E	FN, FA	foraging in th. w sandy layer flew S & W	8

Observer  
 MBL  
 MBL  
 MBL  
 MBL  
 MBL



Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS			
Data Recorder	MBL	LOCATION		BEHAVIOR	
Data Observer	Kevin Li	A	air	FN	foraging near water's edge
Weather	Sunny	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 3	of 10			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	10:25	1	in segment 9	122.20.329	47.32.923	E	Mudflat, FN	21 photos	13
Canada Geese	10:25	7	in seg 9 on mudflat	"	"	E	Mudflat, FN		13
start seg	9			122.20.318	47.32.983				
Photo of			segment 8	"	"				14
osprey	10:45	1	@ start of segment 9	"	"	-	FL - flying N overhead		-
osprey	10:55	2	1 on nest & other on light nearby	122.20.300	47.32.882	W	N, R - on light pole Cave on nest		-

observer  
 MEB  
 MBL  
 Kevin  
 Kevin

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	MGL	LOCATION	BEHAVIOR
Data Observer	MER	A	air
Weather	Sunny	FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		C	canopy
		R	resting
		HG	high ground
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 4 of 10		FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Photo 15			Photo of seg 10	122.20.282	47.32.843				15
Uvula Eagle	10:55	1	over w. Seattle	"	"	W	Soaring overhead		
Photo 16			photo of seg 11	122.20.139	47.32.785		slip 2		
MHL <del>Photo 17</del> Canada Geese	11:15	3	constructed beach S of slip 2	"	"	-	FN		17
MHL spray	11:20		RM 1.9				Circling in Air (FL)	Same bird as noted prev.	
Photo			End of seg. 13	122.20.038	47.32.555				18

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	MGL	LOCATION	BEHAVIOR
Data Observer	MEB	A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 5 of 10		FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
MGL GBH	11:32	1	head of slip 3 <sup>-M-</sup> we corner	122.19.890	47.32.564	-	flew when we approached <del>extended</del> slip head	_____	1
Photo	11:42		Segment 17 - RR shoreline as beach below					_____	19
Photo of seg	11:53		Segment 17 <sup>#1</sup>	122.19.479	47.32.148			_____	20
Photo of slip 4	12:05	7	Canada Geese (M)	122.19.246	47.32.095	E	FN		21
Photo 22			Segment 19 & 20	122.19.170	47.32.127		end of seg 19	_____	22
Photo 23	12:25		Segment 21	122.19.043	47.31.881			_____	23

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	Megan Schudler	LOCATION	BEHAVIOR
Data Observer	MEB	A	air
Weather	windy	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 6 of 10		FI	flying
		N	nesting (including display or distraction)

MBL

MBL

Matthew

Matthew

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	12:26	1	M	122.18.896	47.31.791		<del>FN</del>		
Photo 24	1:15	-	Segment 22	122.18.655	47.31.666				24
Photo 25	1:19	-	Segment 23	122.18.483	47.31.465				25
GBH	1:22	2	A, M	122.18.437	47.31.345	over head	FL, flew overhead		-
Killdeer	1:23	1	heard, on E. Bank, mudflat	122.18.412	47.31.270	E	sound like they are above mudflat		-
K. Killdeer	1:25	2	Mudflat	"	"	E	FN		-

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	MBL	LOCATION	BEHAVIOR
Data Observer	Matthew Boyle, Nevada	A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 7	of 10	FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Photo of Segment			25						26
osprey	1:35	1	A	122,18,302	47,31,087		foraging along shore W. Bank		
Bald Eagle	1:39	1	A	"	"		flying overhead		
GBG	1:47	1	M	122,18,279	47,30,897	E	FN		
Photo	2:02			122,17,298	47,30,663		End of Survey	E Bank	27
Photo	2:15			122,17,898	47,30,895		Photo of segment		29
Photo	1:55				47,302		Photo of segment		28



Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS	
Data Recorder	MFL	LOCATION	BEHAVIOR
Data Observer	Matthew Boyle	A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 8 of 10		FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	3:27	1	M	122.20.077	47.32.477	W	FN	flew up side channel under 1st Ave Br	-
Sp sandpiper	3:47	2	M	122.20.906	47.33.370	W	FN-	1 bird ran N along water's edge	-
Will deer	3:52		M	122.20.967	47.33.557		FN	other bird heard, not seen	-
Photo			Photo of KI	from N 122.20.852	47.33.658			on KI	30
Spotted Sandpiper			Photo of KI	122.20.086	47.33.358			GBH also seen noted on computer map	31

Will deer also seen at this location before  
 See above  
 Will deer also seen noted on computer map

Form 2. LDW spotted sandpiper observations form

Date	6/3/04		ABBREVIATIONS	
Data Recorder	M6L		LOCATION	BEHAVIOR
Data Observer	Matthew Boyle	A	air	FN foraging near water's edge
Weather	Sunny	C	canopy	FA foraging away from water's edge (describe)
		HG	high ground	R resting
		S	salt marsh	S singing
		M	mudflat	P passing through
		R	riprap	C calling
		MM	manmade structure (describe)	FI flying
Page 9	of 10			N nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Photo 32	4:07		toward KI	122.20.826	47.33.347				
Photo 33	4:08		toward w. Marginal	122.20.868	47.33.364				
Sandpiper	4:10	1	M	122.20.911	47.33.377	W	FN	foraging near seep	34
Killdeer	3:47	1	M	122.20.206	47.33.390	W	FA	GBH also sighted @ same location (M6L not recorded)	
Sandpiper	3:47	1	M	"	"	W	FA	same bird as picture 34	
Killdeer	3:52	4	M	122.20.967	47.33.557	W	FA		

GBH 3:52 1

" "

noted on computer M6L

Form 2. LDW spotted sandpiper observations form

Date	6/3/04	ABBREVIATIONS			
Data Recorder	MEB	LOCATION		BEHAVIOR	
Data Observer	MEB	A	air	FN	foraging near water's edge
Weather	Sunny	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 10	of 10			N	nesting (including display or distraction)

MEB

MEB

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Sandpiper	4:18	1	M	122.20.962	47.33.566		FN	on Kellogg Isle Wav. W & Muddlow think there are 3 birds in vicinity	
Killdeer	4:01	5	M	122.20.814	47.33.542		FN	on KI	
Photos	35 to 37			122.20.974	47.33.607		Looking S. toward KI		
End of Survey Day									

Form 2. LDW spotted sandpiper observations form

Date	6/4/04	ABBREVIATIONS	
Data Recorder	MCL	LOCATION	BEHAVIOR
Data Observer	Kevin Li	A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 1	of 5	FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Segment 32	9:29	-	Start survey w. Seattle Bridge	122.31.134	47.34.200			Start Survey Day	
Killdeer	9:38	1	M	122.21.013	47.34.024		FN	@ start of seg 7105 33-side channel	
KL Oprey	10:12	2	♂, ♀ nest	122.20.931	47.33.722	SW	FL		
GM SP Sandpiper	10:13	1	- Gravel beach -	"	"		FD (slightly upland of water (-20ft) -	foraging in gravel	
MEB, VOG KL G Sandpiper	10:20 to 10:52	3	S.	122.20.992	47.33.740	W-240°	1 bird audible 2nd bird & ♀ too	@ 210 + 2 Killdeer	
Spot GBH	11:00	1		122.21.008	47.33.767	158°	@ edge of marsh going from road edge to veg		
GBH	10:55	1	M	122.20.958	47.33.629	East			
Killdeer	9:49	1	M	122.21.014	47.34.024		FN	foraging along side channel - noted on computer	

Form 2. LDW spotted sandpiper observations form

Date	6/4/04	ABBREVIATIONS	
Data Recorder	MBL	LOCATION	BEHAVIOR
Data Observer		A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
Page 2 of 5		MM	manmade structure (describe)
		FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Killdeer	11:17	1	M	122 21.009	47 33 563	2	FN	on KI foraging East	
Killdeer	11:20	1	M	122.21.017	47 33 538	-	FN	on mainland	
GBH	11:55	1	M	"	"	-	FN		
spotted	11:45	1	M	122.20.871	47.33.532	348	FN	on KI opposite us	
GBH	11:59 12:54	1	M	122.20.788	47.33.536	145	FN	on KI @ bank edge	
spotted sandpiper	12:05 12:02	2	M	122.20.717	47.33.477	144	FN	Possibly 1 more bird @ 4:00 (heard)	

WENW

updated from computer file MBL

Form 2. LDW spotted sandpiper observations form

Date	8/4/04	ABBREVIATIONS			
Data Recorder	MGL	LOCATION		BEHAVIOR	
Data Observer		A	air	FN	foraging near water's edge
Weather		C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 3	of 5			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Killdeer	12:04	1	M	122.20.785	47.33.362	-	FN		
Killdeer	12:09	1	M	122.20.823	47.33.374	-	FN	in channel	
spott Killdeer									
spotted	12:14	1	M	122.20.892	47.33.401	-	FN		
Killdeer	12:25	1	M	122.20.948	47.33.486		FN		
spotted	12:28		M	122.20.947	47.33.497	240	FN	flew - from S landed on log	

Killdeer 12:35 5 M " " 10° FN

foraging on KI

Form 2. LDW spotted sandpiper observations form

Date	6/19/04	ABBREVIATIONS	
Data Recorder	MGL	LOCATION	BEHAVIOR
Data Observer	UWON LG	A	air
Weather	Sunny	C	canopy
		FN	foraging near water's edge
		FA	foraging away from water's edge (describe)
		HG	high ground
		R	resting
		S	salt marsh
		S	singing
		M	mudflat
		P	passing through
		R	riprap
		C	calling
		MM	manmade structure (describe)
Page 4 of 5		FI	flying
		N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
<del>6/19/04</del> GBH	1:43	1	MM (on pilings)	122.20.460	47.32.958	W	R	perched on piling	
osprey	1:46	2	MM (on nest platform on light pole)	122.20.277	47.32.825	W	N	2 birds seen in nest	
GBH	1:52	1	A	122.20.060	47.32.984	-	FL	flushed bird when entered site	
Spotted Sandpiper	2:05	1	<del>MM</del> M	122.20.056	47.32.450	-	FN	in <del>MM</del> creek under 1st Ave Br.	16/10
<del>Spotted Sandpiper</del> Killdeer	2:13	1	M	122.20.137	47.32.376	170	FN	500' upstream in Marsh x div highway	
GBH	2:47	1	MM	122.19.661	47.32.229	-	R	perched on truck in channel	

osprey 2:42 1 A U U - FL flew overhead -

Form 2. LDW spotted sandpiper observations form

Date	6/9/09	ABBREVIATIONS			
Data Recorder	MGL	LOCATION		BEHAVIOR	
Data Observer	Kevin Li	A	air	FN	foraging near water's edge
Weather	Mostly sunny - some high clouds	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 5	of 5			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	2:58	1	M	122.12.076	47.31.869	n60	FN, flow across river from W bank to E.		
GBH	3:06	1	M	122.18.601	47.31.584	W	FN	caught fish	
GBH	1553	1	added from computer file	122.18.237	47.30.721				
Osprey	3:20	1	A	122.18.378	47.31.025	W	A	near nest platform	
Spotted	2:33	4	S S	122.20.904	47.33.539	-	foraging in high salt marsh		
willdeer	2:41	3	M	122.20.856	47.33.541	-			
Spotted Sandpiper	4:49	4	M	122.20.821	47.33.604	-	3 flew from N tip (island) to Max Island	4th bird seen <del>near</del> high salt marsh	
End survey day @ 4:53									
GBH	1:54	1	M	122.20.950	47.33.988	280	FN		
willdeer	3:00	1	M	122.18.053	47.30.745		FN	added from computer file	

observed only from earlier in day



Form 2. LDW spotted sandpiper observations form

Date	6/27/04	ABBREVIATIONS			
Data Recorder	MEC	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	70° Clouds	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page	1	of	7	N	nesting (including display or distraction)

	SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO#
KL	Bald Eagle	5:35	1	A	122.21.118	47.34.213	-	FL	flew from W to E	
MEB	willow	5:35	1	m	"	"	W	FL	on W. bank	
KL	osprey	5:43	1	MM (Red Light tower tower)	<del>47.34.105</del> 47.33.867	<del>122.21.101</del> 122.20.893	W	R	nest closely on wooden light pole	
KL	willow	5:44	1	linear near KI	Same as above		S	with (heard)		
MEC	osprey	5:58	1	MM (light pole)	122.20.749	47.34.140	ENE	R	in nest on light pole	
KL	G-Bird	5:55	1	A	"	"	W	FL	flying over marina	

Photo - from E-W looking South

Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS			
Data Recorder	MGC	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 2 of 7				N	nesting (including display or distraction)

	SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Mal	Bald Eagle	6:05	1	M	122.20.871	47.33.772	163	R (on edge of water)	start of segment 13 N of KI	
Mal	GBid	6:08	1	MM (barge)	122.20.943	47.33.705	N	flew when we approached		
KL	Killdeer	6:11	9	M	<del>122.20.943</del> 122.20.869 to 122.20.942	<del>47.33.705</del> 47.33.658 to 47.33.497		FN	from tip of KI to edge of trees	
KL	spotted sandpiper	6:17	2	M	<del>122.20.942</del> 122.20.960	<del>47.33.705</del> 47.33.497	160	FN	~200 yd ID unsure markbird	
KL MEB	Killdeer	6:17	1	M	same as above		"	FN		
Mal	spotted sandpiper	6:23	1	M	122.20.907	47.33.389	-	FN	flew arounds end KI	

Photo 2 @ S end Killdeer Island

**Lower Duwamish Waterway Group**

Part of Seattle | City of Seattle | King County | The Boeing Company

FINAL

Sandpiper survey  
May 26, 2004

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Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS			
Data Recorder	MEL	LOCATION		BEHAVIOR	
Data Observer	Matthew Eagle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 3	of 7			N	nesting (including display or distraction)

	SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
MES	GBH	6:30	1	R	122.20.681	47.33.366	S	FN		
MES	Bald Eagle	6:31	1	MM (Piling)	122.20.728	47.33.435	N	R (perched on piling)	robbed by crows flew S	
MES, KH	spotted	6:45	1	on beach @ N end Kellogg Humboldt Island	122.20.887	47.33.620	-	FN		
All	spotted	6:50	1	in salt marsh / mudflat @ N end KI	122.20.860	47.33.511	-	FA (foraging in low mudflat w/ low veg)		
	Willow	6:50	10	"	"	"		FA	All but 2 flew away to S.	
	GBH	6:55	1	on barge @ N end KI	122.20.875	47.33.655				

Photo 3 - from S side along N edge KI

**Lower Duwamish Waterway Group**

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FINAL

Sandpiper survey

May 26, 2004

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Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS			
Data Recorder	MGL	LOCATION	BEHAVIOR		
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 4	of 7			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO#
MGL Osprey	6:55	1	A	NO MOB (on island) 122.20.860	47.33.511	W	P	Along channel w side <sup>KT</sup> <del>landed</del> in tree	
MGB sandpiper	7:05	1	S	NO MOB (on island) 122.20.860	47.33.511		flushed from <del>edge</del> of rushes	on canal KE in high salt marsh	
MGL MGB Sandpiper	7:21	3	S observed from S edge of channel	MOB below		N	FN	@ N. End of T105 Marsh near barge	
Willow	7:21	2+	S	MOB @ side of channel 122.20.982	47.33.721	N	FN	!!	
GBH	7:35		MM - on dock railing	122.20.756	47.33.803	S	R		
GBH	7:46	1	MM - corner of barge	122.20.565	47.33.421	SSW	R	on barge	

Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS			
Data Recorder	MGL	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 5 of 7				N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Osprey	7:48	2	MM (low board on barge)	122.20.472	47.33.414	W	R	flew in from E	
Bald Eagle	0800	1	A	122.20.476	47.33.097	over head	FI	flew overhead rubbed by crown	
sp sandpiper	8:03	1	RR	122.20.432	47.33.131	E	FI, foraging	flew from RR to RR in Newmade Area	
GBH	8:12	1	MM (low piling)	122.20.508	47.32.924	N	R - flew when we approached		
GBH	8:36	1	MM (low off dock)	122.20.145	47.32.559	-	R - flew when we approached	N. side 1st Ave. Bridge	
Osprey	8:49	2	MM (light pole)	122.20.306	47.32.911	WS	R (on nest)		

MEB  
32.5  
Please take photos of area where sp. sandpiper occurred

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Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS			
Data Recorder	MAL	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page	6			N	nesting (including display or distraction)
	of		7		

	SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
MAL	spotted sandpiper	8:52	1	R	122.20.326	47.32.978	E	FN	Flushed bird ~ 50' - flew S	
WL	spotted sandpiper	9:10	1	M	122.20.582	47.32.467	S	FN	w/ killdeer	7 (week)
	killdeer	9:16	1	Auditory M	<del>122.20.092</del> 122.19.963	47.32.401	S	walk + FN	—	—
	GBH	9:16	1	M (on r. line)	same as above		S	R	—	—
	spotted sandpiper	9:21	1	R	122.19.846	47.32.329	-	FN	—	11-13 on rind
	GBH	9:34	1	Barge	122.19.703	47.32.348	-	R	—	

Form 2. LDW spotted sandpiper observations form

Date	6/7/04	ABBREVIATIONS	
Data Recorder	MCL	LOCATION	BEHAVIOR
Data Observer	Matthew Boyle	A air	FN foraging near water's edge
Weather	Cloudy w/ some sun	C canopy	FA foraging away from water's edge (describe)
		HG high ground	R resting
		S salt marsh	S singing
		M mudflat	P passing through
		R riprap	C calling
		MM manmade structure (describe)	FI flying
Page 7	of 7		N nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	9:58	1	MM (large)	122.19.134	47.32.167	E	FN	flew when we approached	
U.L. Peregrine	10:41	1	MM (Boeing plant)	122.18.733 <del>122.19.063</del>	47.31.680 <del>47.31.939</del>	E	R		
GBH	10:43	1	MM (Piling)	122.18.645	47.31.624	-	R	flew when we approached	
GBH	11:19	1	MM (Piling)	122.18.342	47.31.153	-	R		
Osprey	11:29	1	MM (light pole)	122.18.356	47.30.984	-	R	on pole	
Willow Ptarmigan	11:57	1	Mud	122.18.112	47.30.742	S	FN	W. Bank	
GBH	11:58	1	MM	122.18.211	47.30.783	-	R	flew when we approached	

Form 2. LDW spotted sandpiper observations form

Date	6/11/04	ABBREVIATIONS			
Data Recorder	MLL	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
	transcribed from field notebook	HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page	1 of 4			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
Willet	5:49	1	M	47.30.701	122.18.168	S	FN		
Sp. Sandpiper	5:52	1	M	47.30.720	122.18.082	W	FN		
Willet	5:57	1	M	47.30.704	122.17.911	W	FN		
Willet	6:01	1	M	122.17.908	47.30.728	E	FN		
Spotted Sandpiper	6:06	1	RR (Gravelly beach)	122.18.201	47.30.786	E	FN	flew from E Bank to W. Bank flushed	
River Otter	6:10	1	RR		47.30.923 122.18.285	E	UNKNOWN	about 50' from boat landed on RR	



Form 2. LDW spotted sandpiper observations form

Date	6/11/04	ABBREVIATIONS			
Data Recorder	ML	LOCATION		BEHAVIOR	
Data Observer	Motlow-Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 2	of 4			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
U.illdeer	6:18	1	audio of bird above veg in parking lot?	122.18.174	47.31.170	N	UNKNOWN	Audio only	
spotted sand-piper	6:18	1	uncertain audio of call	''	''	WSW	Audio only & uncertain		
GBH	6:26	1	M	122.18.359	47.31.253		FN		
Osprey	6:35	2	M (light pole)	122.18.389	47.31.011	W	R		
spotted sand-piper	6:41	1	RR	122.18.321	47.30.819	W	FN	same bird as observed @ 6:18?	
GBH	6:54	1	MM (dolphin)	122.18.633	47.31.630	E	R		

Form 2. LDW spotted sandpiper observations form

Date	6/11/04	ABBREVIATIONS			
Data Recorder	MBL	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 3	of 4			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X)	NORTHING (Y)	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	7:20	1	MM (Pilings)	122.19.133	47.32.208	E	R, flew when we approached	Sidsy foam on 420 @ Pipe	
Spotted Sandpiper	7:45	1	audio only	122.19.812	47.32.385	W	Audio only	on w. bank w of location	
GBH	7:58	1	MM (Pilings)	122.19.890	47.32.546	E	R		
Spotted Sandpiper	8:31	1	M	122.20.154	47.32.525	W	fl	flew S. when we approached flushing distance ~ 50-100'	
GBH	8:17	1	RR	122.20.326	47.32.980		FN	flew N when we approached	

**Form 2. LDW spotted sandpiper observations form**

Date	<del>06/11/04</del> 06/11/04	ABBREVIATIONS			
Data Recorder	MBL	LOCATION		BEHAVIOR	
Data Observer	Matthew Boyle	A	air	FN	foraging near water's edge
Weather	Cloudy	C	canopy	FA	foraging away from water's edge (describe)
		HG	high ground	R	resting
		S	salt marsh	S	singing
		M	mudflat	P	passing through
		R	riprap	C	calling
		MM	manmade structure (describe)	FI	flying
Page 4	of 4			N	nesting (including display or distraction)

SPECIES OBSERVED	TIME	# OF BIRDS	LOCATION DESCRIPTION	EASTING (X):	NORTHING (Y):	COMPASS DIRECTION	BEHAVIOR	NOTES	PHOTO #
GBH	9:03	1	M	122,20.697	47.33.658	E	FN		
Willdeer	9:03	3	M	"	"	E	FN		
GBH	9:15	1	RR	122.20.734	47.34.200	E	FN		