

Appendix B

Bird Data for the Brine Pool Transition Area

Appendix B presents the number of birds that have been observed specifically in the area of specific interest for the SEIR, the brine pool transition area (see **Section 3.2.2.2** for a detailed description). Bird data from the following sources are presented:

- Data submitted to LADWP by M. Prather, Owens Valley Committee, with a comment letter (dated September 20, 2005) on the NOP for this SEIR (see Appendix A) (noted as [1] below the survey date in **Table B-2** through **Table B-13**)
- Data recorded and compiled by D. House, LADWP Watershed Resources Specialist (noted as [2] below the survey date in **Table B-2** through **Table B-13**)
- Data recorded as part of the International Shorebird Survey and submitted by M. Prather, Owens Valley Committee (personal communication to W. Bamossy, LADWP, October 12, 2005) (noted as [3] below the survey date in **Table B-2** through **Table B-13**)

The number of survey days (three sources combined) is presented by month and year in **Table B-1**. **Table B-2** through **Table B-13** (beginning on the following page) present the number of birds observed by species and by date of survey.

Table B-1
Number of Survey Days

Month	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	Total
January					1	1	1	1			4
February							1				1
March	1				1		1			1	4
April					3	3	2			5	13
May	1				1	4	2			3	11
June					1	3	1			2	7
July					1						1
August				3	3	1	1	1		2	11
September				2		2				2	6
October				2		1	1	1		1	6
November										1	1
December					1						1
Total	2	0	0	7	12	15	10	3	0	17	66

Appendix B – Bird Data for the Brine Pool Transition Area

**Table B-2
Number of Waterbirds Observed by Species and by Date of Survey (1996 and 1999)**

Common Name	Scientific Name	3/23/96	5/6/96	8/17/99	8/24/99	8/29/99	9/12/99	9/26/99	10/17/99	10/23/99
		[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
Snow Goose	<i>Chen caerulescens</i>									82
Canada Goose	<i>Branta canadensis</i>									
Mallard	<i>Anas platyrhynchos</i>		6							
Cinnamon Teal	<i>Anas cyanoptera</i>		8							
Northern Pintail	<i>Anas acuta</i>		2							
Duck Spp.	---									1,050
Snowy Egret	<i>Egretta thula</i>		3							
Black-bellied Plover	<i>Pluvialis squatarola</i>						1	1	4	
Snowy Plover	<i>Charadrius alexandrinus</i>	1	30		1		1			3
Semipalmated Plover	<i>Charadrius semipalmatus</i>		62		6	1				
Killdeer	<i>Charadrius vociferus</i>				26		20		31	51
Black-necked Stilt	<i>Himantopus mexicanus</i>		12				30			
American Avocet	<i>Recurvirostra americana</i>		30			150	1,000	500	1	85
Greater Yellowlegs	<i>Tringa melanoleuca</i>	9	2					2	20	
Solitary Sandpiper	<i>Tringa solitaria</i>			2	1					
Willet	<i>Catoptrophorus semipalmatus</i>			1				1		
Spotted Sandpiper	<i>Actitis macularius</i>									
Whimbrel	<i>Numenius phaeopus</i>									
Long-billed Curlew	<i>Numenius americanus</i>						10		4	11
Turnstone Spp.	<i>Arenaria spp.</i>				2					
Western Sandpiper	<i>Calidris mauri</i>		2		1,202	400	80			15
Least Sandpiper	<i>Calidris minutilla</i>	170	48		120		30		70	1,200
Baird's Sandpiper	<i>Calidris bairdii</i>							2		
Pectoral Sandpiper	<i>Calidris melanotos</i>						1			
Dunlin	<i>Calidris alpina</i>								180	
Calidris Spp.	<i>Calidris Spp.</i>									
Western, Least, or other small Sandpipers	---			950	100	700	5,000	7,000	1,770	
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	1								
Dowitcher spp.	<i>Limnodromus spp.</i>		9		1			4		
Red-necked Phalarope	<i>Phalaropus lobatus</i>		6				7			
Phalarope spp.	<i>Phalaropus spp.</i>					32		11		
Unidentified shorebird	---									
California Gull	<i>Larus californicus</i>									
Total Waterbirds		181	220	953	1,459	1,283	6,180	7,521	2,080	2,497
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**Table B-3
Number of Non-waterbirds Observed by Species and by Date of Survey (1996 and 1999)**

Common Name	Scientific Name	3/23/96	5/6/96	8/17/99	8/24/99	8/29/99	9/12/99	9/26/99	10/17/99	10/23/99
		[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
Northern Harrier	<i>Circus cyaneus</i>									
Peregrine Falcon	<i>Falco peregrinus</i>									
Prairie Falcon	<i>Falco mexicanus</i>									
White-throated Swift	<i>Aeronautes saxatalis</i>									
Western Kingbird	<i>Tyrannus verticalis</i>									
Common Raven	<i>Corvus corax</i>									
Horned Lark	<i>Eremophila alpestris</i>									
Tree Swallow	<i>Tachycineta bicolor</i>									
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>									
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>									
Barn Swallow	<i>Hirundo rustica</i>									
Swallow Spp.	---									
American Pipit	<i>Anthus rubescens</i>									
Savannah Sparrow	<i>Passerculus sandwichensis</i>									
Unidentified	---									
Total Non-waterbirds		0	0	0	0	0	0	0	0	0
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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**Table B-4
Number of Waterbirds Observed by Species and by Date of Survey (2000)**

Common Name	1/3/00	3/25/00	4/2/00	4/12/00	4/21/00	5/20/00	6/3/00	7/24/00	8/1/00	8/14/00	8/22/00	12/21/00
	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[2]
Snow Goose	950											
Canada Goose												7
Mallard												
Cinnamon Teal												
Northern Pintail												
Duck Spp.	1,000											
Snowy Egret												
Black-bellied Plover		7			2							
Snowy Plover		4	9		8	12						2
Semipalmated Plover					6							
Killdeer	33		7		4	5	3		1			
Black-necked Stilt				10								
American Avocet		50	202		1,000	4						
Greater Yellowlegs												
Solitary Sandpiper											1	
Willet												
Spotted Sandpiper												
Whimbrel				1								
Long-billed Curlew	1		1	2								
Turnstone Spp.												
Western Sandpiper			10									
Least Sandpiper	762	80	55								6	
Baird's Sandpiper												
Pectoral Sandpiper												
Dunlin	8											
Calidris Spp.												300-400
Western, Least, or other small Sandpipers			4,000		3,700							
Long-billed Dowitcher												
Dowitcher spp.		1	8									
Red-necked Phalarope												
Phalarope spp.						11						
Unidentified shorebird												
California Gull												
Total Waterbirds	2,754	142	4,292	13	4,720	32	3	0	1	**	7	409
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	Yes	Yes	Yes	Yes	*	No	Yes	Yes	Yes	Yes	Yes

* Noted as central channel dry.

** Unidentified species.

**Table B-5
Number of Non-waterbirds Observed by Species and by Date of Survey (2000)**

Common Name	1/3/00	3/25/00	4/2/00	4/12/00	4/21/00	5/20/00	6/3/00	7/24/00	8/1/00	8/14/00	8/22/00	12/21/00
	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[2]
Northern Harrier												
Peregrine Falcon						1					1	
Prairie Falcon	1											
White-throated Swift												
Western Kingbird												
Common Raven												
Horned Lark												
Tree Swallow												
Northern Rough-winged Swallow												
Cliff Swallow												
Barn Swallow												
Swallow Spp.												
American Pipit												
Savannah Sparrow												
Unidentified												
Total Non-waterbirds	1	0	0	0	0	1	0	0	0	0	1	0
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	Yes	Yes	Yes	Yes	*	No	Yes	Yes	Yes	Yes	Yes

* Noted as central channel dry.

**Table B-6
Number of Waterbirds Observed by Species and by Date of Survey (January – August 2001)**

Common Name	1/3/01	4/1/01	4/15/01	4/22/01	5/15/01	5/16/01	5/20/01	5/31/01	6/2/01	6/14/01	6/22/01	8/20/01
	[2]	[1]	[1]	[1]	[2]	[2]	[1]	[2]	[1]	[1]	[1]	[1]
Snow Goose												
Canada Goose												
Mallard												
Cinnamon Teal												
Northern Pintail												
Duck Spp.												
Snowy Egret												
Black-bellied Plover												
Snowy Plover		3	16	7								
Semipalmated Plover												
Killdeer			2									
Black-necked Stilt				1								
American Avocet		254	500	7								
Greater Yellowlegs		2										
Solitary Sandpiper												
Willet												
Spotted Sandpiper												
Whimbrel												
Long-billed Curlew												
Turnstone Spp.												
Western Sandpiper				6								
Least Sandpiper												
Baird's Sandpiper												
Pectoral Sandpiper												
Dunlin												
Calidris Spp.												
Western, Least, or other small Sandpipers		40	2,000									
Long-billed Dowitcher												
Dowitcher spp.												
Red-necked Phalarope												
Phalarope spp.												
Unidentified shorebird												
California Gull												
Total Waterbirds	0	299	2,518	21	0	0	0	0	0	0	0	0
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No

Table B-7
Number of Non-waterbirds Observed by Species and by Date of Survey (January – August 2001)

Common Name	1/3/01	4/1/01	4/15/01	4/22/01	5/15/01	5/16/01	5/20/01	5/31/01	6/2/01	6/14/01	6/22/01	8/20/01
	[2]	[1]	[1]	[1]	[2]	[2]	[1]	[2]	[1]	[1]	[1]	[1]
Northern Harrier												
Peregrine Falcon												
Prairie Falcon												
White-throated Swift												
Western Kingbird												
Common Raven												
Horned Lark												
Tree Swallow												
Northern Rough-winged Swallow												
Cliff Swallow												
Barn Swallow												
Swallow Spp.												
American Pipit												
Savannah Sparrow												
Unidentified												
Total Non-waterbirds	0	0	0	0	0	0	0	0	0	0	0	0
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	Yes	Yes	Yes	No	No	No	No	No	No	No	No

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**Table B-8
Number of Waterbirds Observed by Species and by Date of Survey (September 2001 – October 2002)**

Common Name	9/1/01	9/15/01	10/26/01	1/13/02	2/2/02	3/11/02	4/25/02	4/26/02	5/3/02	5/24/02	6/20/02	8/16/02	10/11/02
	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[2]	[1]	[2]	[2]	[2]	[2]
Snow Goose				200	300								
Canada Goose													
Mallard					34								
Cinnamon Teal													
Northern Pintail													
Duck Spp.				40	63								
Snowy Egret													
Black-bellied Plover						2			1				
Snowy Plover				20	1				13				
Semipalmated Plover								3	14				
Killdeer		2					2						
Black-necked Stilt													
American Avocet					40		11						
Greater Yellowlegs					8								
Solitary Sandpiper													
Willet									1				
Spotted Sandpiper									1				
Whimbrel													
Long-billed Curlew													
Turnstone Spp.													
Western Sandpiper				12				26	600				
Least Sandpiper				87	800		134	14	35				10*
Baird's Sandpiper													
Pectoral Sandpiper									2				
Dunlin				17									
Calidris Spp.								4					
Western, Least, or other small Sandpipers									75				
Long-billed Dowitcher													
Dowitcher spp.													
Red-necked Phalarope													
Phalarope spp.													
Unidentified shorebird												25*	
California Gull									32				
Total Waterbirds	0	2	0	376	1,246	2	147	47	774	0	0	25	10
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No

* Fly over

Table B-9
Number of Non-waterbirds Observed by Species and by Date of Survey (September 2001 – October 2002)

Common Name	9/1/01	9/15/01	10/26/01	1/13/02	2/2/02	3/11/02	4/25/02	4/26/02	5/3/02	5/24/02	6/20/02	8/16/02	10/11/02
	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[2]	[1]	[2]	[2]	[2]	[2]
Northern Harrier					2								
Peregrine Falcon													
Prairie Falcon													
White-throated Swift								4					
Western Kingbird													
Common Raven													
Horned Lark										14	4	2	2
Tree Swallow								1					
Northern Rough-winged Swallow										2			
Cliff Swallow								1					
Barn Swallow								1		1			
Swallow Spp.								3					
American Pipit													
Savannah Sparrow								2					
Unidentified													
Total Non-waterbirds	0	0	0	0	2	0	0	12	0	17	4	2	2
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No

Appendix B – Bird Data for the Brine Pool Transition Area

**Table B-10
Number of Waterbirds Observed by Species and by Date of Survey (2003 and March – June 2005)**

Common Name	1/30/03	8/7/03	10/26/03	3/28/05	4/1/05	4/3/05	4/11/05	4/14/05	4/29/05	5/1/05	5/8/05	5/13/05	6/2/05	6/24/05
	[2]	[2]	[1]	[2]	[2]	[3]	[3]	[2]	[2]	[3]	[3]	[2]	[2]	[2]
Snow Goose	**													
Canada Goose														
Mallard														
Cinnamon Teal														
Northern Pintail														
Duck Spp.	**				***									
Snowy Egret														
Black-bellied Plover														
Snowy Plover						2	2							
Semipalmated Plover								3****						
Killdeer												1		
Black-necked Stilt												2		
American Avocet						9	5			3		10		
Greater Yellowlegs							8							
Solitary Sandpiper														
Willet														
Spotted Sandpiper														
Whimbrel														
Long-billed Curlew														
Turnstone Spp.														
Western Sandpiper														
Least Sandpiper								42****						
Baird's Sandpiper														
Pectoral Sandpiper														
Dunlin														
Calidris Spp.														
Western, Least, or other small Sandpipers														
Long-billed Dowitcher														
Dowitcher spp.														
Red-necked Phalarope														
Phalarope spp.														
Unidentified shorebird														
California Gull					10	270	23		34	58	79	19*	1*	
Total Waterbirds	0	0	0	0	10	281	38	45	34	61	79	32	1	0
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No

* Fly over ** Approximately 200 snow geese and 100 ducks (species not identified) were seen resting near the brine pool, but not in the transition area.
 *** Approximately 100 ducks (species not identified) were seen resting next to the brine pool, but not in the transition area. **** Observed adjacent to wetland vegetation in Delta.

Table B-11
Number of Non-waterbirds Observed by Species and by Date of Survey (2003 and March – June 2005)

Common Name	1/30/03	8/7/03	10/26/03	3/28/05	4/1/05	4/3/05	4/11/05	4/14/05	4/29/05	5/1/05	5/8/05	5/13/05	6/2/05	6/24/05
	[2]	[2]	[1]	[2]	[2]	[3]	[3]	[2]	[2]	[3]	[3]	[2]	[2]	[2]
Northern Harrier														
Peregrine Falcon														
Prairie Falcon														
White-throated Swift														
Western Kingbird														
Common Raven										2				
Horned Lark	2													
Tree Swallow														
Northern Rough-winged Swallow														2
Cliff Swallow														
Barn Swallow														
Swallow Spp.														
American Pipit														
Savannah Sparrow													1	2
Unidentified														
Total Non-waterbirds	2	0	0	0	0	0	0	0	0	2	0	0	1	4
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No

Table B-12
Number of Waterbirds Observed by Species and by Date of Survey (August – November 2005)

Common Name	8/4/05	8/24/05	9/12/05	9/26/05	10/12/05	11/16/05
	[2]	[2]	[2]	[2]	[2]	[2]
Snow Goose						
Canada Goose						
Mallard						3*
Cinnamon Teal						
Northern Pintail						
Duck Spp.						
Snowy Egret						
Black-bellied Plover						
Snowy Plover						
Semipalmated Plover						
Killdeer						
Black-necked Stilt						
American Avocet						
Greater Yellowlegs						
Solitary Sandpiper						
Willet						
Spotted Sandpiper						
Whimbrel						
Long-billed Curlew						
Turnstone Spp.						
Western Sandpiper						
Least Sandpiper						1**
Baird's Sandpiper						
Pectoral Sandpiper						
Dunlin						
Calidris Spp.						
Western, Least, or other small Sandpipers						
Long-billed Dowitcher						
Dowitcher spp.						
Red-necked Phalarope						
Phalarope spp.						
Unidentified shorebird						
California Gull	1*					
Total Waterbirds	1	0	0	0	0	4
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	No	No	No	No	No	Yes

* Fly over ** Identified by call.

Table B-13
Number of Non-waterbirds Observed by Species and by Date of Survey (August – November 2005)

Common Name	8/4/05	8/24/05	9/12/05	9/26/05	10/12/05	11/16/05
	[2]	[2]	[2]	[2]	[2]	[2]
Northern Harrier						
Peregrine Falcon						
Prairie Falcon	1*					
White-throated Swift						
Western Kingbird	4**					
Common Raven			1*			
Horned Lark					5	12
Tree Swallow						
Northern Rough-winged Swallow						
Cliff Swallow						
Barn Swallow				2	1	
Swallow Spp.						
American Pipit						2
Savannah Sparrow						
Unidentified						
Total Non-waterbirds	5	0	1	2	6	14
Outflow from Delta? (from Table 3-5, Section 3.2.2.2 of the SEIR)	No	No	No	No	No	Yes

* Fly over

**Seen foraging on barren playa adjacent to wet alkali meadow.