DOCKETE	D
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Project Title:	Palen Solar Power Project - Compliance
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Document Title:	Palen Solar Holdings, LLC's Compilation of Avian Data at Various Solar Projects
Description:	N/A
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AVIAN MORTALITY INFORMATION FROM 2012/2013 MONTHLY OR QUARTERLY COMPLIANCE REPORTS

Monthly Totals Genesis (Trough) Desert Sunglight (PV) ISEGS (Tower) Totals by Month

jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec
0	0	0	0	2	0	6	2	0	4	0	0	0	0	3	4	10	4	27	66	7	11	2	6
2	0	2	0	2	2	3	4	4	4	6	0	1	1	1	8	7	11	11	7	6	39	12	1
1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	3	5	5	7	7	30	50	11	13
3	0	3	3	5	2	11	7	6	9	7	2	3	2	5	15	22	20	45	80	43	100	25	20

Yearly Totals Genesis (Trough) Desert Sunglight (PV) ISEGS (Tower)

2012	2013
14	140
29	105
15	135

Color Code Legend

Location not reported	Open area	Fence	Pond	Solar trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub- station	Road or vehicle	Drainage channel	Const. Laydown Area	Carcass surveys conducted
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THIS IS A SUMMARY SHEET--PROJECT SPECIFIC DATA FOLLOWS ON NEXT PAGES

GENESIS						2	012											2	013					
Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec
Monthly Total	0	0	0	0	2	0	6	2	0	4	0	0	0	0	3	4	10	4	27	66	7	11	2	6
					Unknown		Bullocks Oriole	Mourning dove		American coot					Lesser goldfinch	Black throated grey warbler	Pied billed grebe	Mourning dove	Barn owl	dove	Grebe species (netting)	(netting)	Gadwall	House finch
					Unknown	1	Bullocks Oriole	Lesser nighthawk		Unknown small bird					Lesser goldfinch	House wren	Wilson's warbler	Barn owl	Cliff swallow	Tree swallow	MacGillivray's warbler	Green wing teal	Pigeon	Unknown
						1	Western	Ingilliawk		American					Bufflehead	Orange-	Hermit thrush	Great Blue	Yellow	Tree swallow		Green wing		White
							meadow lark			kestral						crowned		Heron	headed			teal		crowned
																warbler	1400		blackbird		black bird			sparrow
							Unknown species			Barn owl						Pied-billed grebe (netting)	Wilson's warbler	Barn owl	Mourning dove	Cowbird	Unknown water bird	Blue wing teal		Grebe species (netting)
							Brewers				-					(Hetting)	Townsend's		Barn owl	Cowbird	Grebe species	Marsh wren		Grebe species
							blackbird										warbler				(netting)			(netting)
							Mourning dove	1									Western grebe		American coot	Herring gull	Mourning dove	Lesser goldfinch		Unknown
							uove										Yellow		Bat western	Say's Phoebe		Cooper's		
																	warbler		pipestrelle			hawk		
																	Unknown		Great blue	Cliff swallow		Passerine		
																	warbler Unknown	-	heron American	Gull	'	species Orange-		
																	sparrow		kestrel	Guii		crowned		
																	American		Yellow	Bullock's		warbler Bat		
																	coot		headed	Oriole	'	Dut		
																			blackbird		'			
																			Unknown	Cliff swallow		Bat		
																			Bat western pipestrelle	Eared grebe			•	
																			Great	Yellow	1			
																			roadrunner	headed				
																			Dunassun	blackbird	1			
																			Brown pelican	Common loon				
																			Cliff swallow					
																				Oriole	1			
																			Lesser	Tree swallow				
																			nighhawk Cliff swalow	Rough wing	1			
																			Citi Swaldw	swallow				
																			Compied	Compied	1			

					LEGI	END						
Location not reported	Open area	Fence	Pond	Solar trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub- station	Road or vehicle	Drainage channel	Const. Laydown Area	Carcass surveys conducted

GENESIS, cont.	2012		2013	
	may june july aug	sept oct nov dec	jan feb mar apr may june july aug sept oct nov dec Tree swallow	コ
			Blue winged	
			teal	
			Cowbird Mourning	
			dove Sora Tree swalow	
			Tree swallow	
			Yellow	
			headed blackbird	
			Cowbird Cowbird Bullock's	
			Oriole Bullock's	
			Oriole Bunting	
			(Lazul?) Bunting	
			(Lazul?) Cowbird	
			Cowbird Cowbird Passerine	
			species Passerine	
			species Passerine	
			species Passerine	
			species Unknown Unknown	
			Unknown Passerine	
			species Eared grebe	
			Gull - ring	
			billed Hermit warbler	
			Lesser nighthawk	
			Unknown American	
	LEGEND		Kestral Chipping	
Location not Coop area Force Bond		7/L, power Road or Drainage Const.	Sparrow Bat	

Drainage channel

vehicle

surveys

conducted

Area

or building

line, sub-

station

Solar Tower Solar Flux

panel, or heliostat

Pond

reported

Open area

JNLIGHT						20)12												Bat					
Month		feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec
Monthly Total		0	2 Displayable d	0	2	2	3	4 Vallani	4 Carreland	4	6	0	1	1	1	8	7	11	11	7	6	39	12	1
	Burrowing owl		Black tailed gnatcatcher		Western grebe	Unknown	Yellow headed	Yellow headed	Cowbird	White crowned	Barn owl		Common poorwill	Common poorwill	Loggerhead shrike		Yuma clapper rail	dove	Townsend's warbler	Brewer's blackbird	Common yellowthroat	Western grebe	Western grebe	Eared gr
								blackbird		sparrow														
	Praire falcon		Costa's		Brewer's	American	Sparrow	Wilson's	American	American	Long-eared					White-	Wilson's	Common	Brown	Western	Eared grebe	Fared grehe	Western	
	rane raicon		humming bird		blackbird	kestral		warbler	avocet	avocet	owl					crowned	warbler	loon	pelican	tanager	24.64 8.656	Lui cu gi cu c	meadow lark	
				ļ			Loggarbood	Yellow	American	Disclobing	Unknown					sparrow	Loggorbood	Mauraina	Drown	Farad graba	Unknown	Eared grebe	Mostorn	
								rumped	American avocet	Blackbird	Unknown					Eared grebe	Loggerhead shrike	Mourning dove	Brown pelican	Eared grebe	Ulikilowii	Eareu grebe	Western grebe	
								warbler											_					
								Pallid bat	American avocet	Eared grebe	American avocet					Surf scooter	Western tanager	Eared grebe	Brown pelican	Cowbird	Unknown	Sora	Western grebe	
											Mourning					Great-tailed	Townsend's	Western	Black	Western	Savannah	American	Sora	
											dove					grackle	warbler	grebe	crowned night heron	tanager	sparrow	coot		
											American					Red-breasted	Lesser	American	Ash throated	Pied billed	Common	Western	Red-necked	
											avocet					Merganser	nighthawk	coot	fly catcher	grebe	raven	grebe	Phalarope	
												ļ				Horned lark	Wilson's	Double	Black headed	Wilson's		Eared grebe	Great egret	
																	warbler	breasted	grosbeak e	warbler				
																		commorant						
																Double-		Common	Tree swallow		4	Sora	Western	
																breasted comorant		raven					grebe	
																comorant	j	Great tailed	Horned lark			American	Sora	
																		grackle				coot		
																		Double	Common			EAGR (?)	Red-necked	
																		breasted	poorwill				Phalarope	
																		commorant	0 11 .1					
																		Costa humming bird	Great tailed grackle			Mourning dove	Western grebe	
																						American Avocet	Great egret	
																						Eared grebe		1
																						Mourning		
																						dove		
																						Eared grebe		
																						American		
																						Avocet		
																						Western grebe		
																						Western		
																						grebe Western		
																						grebe		
																						Western grebe		
																						Western	1	
															-							grebe Western	-	
						LEG	END															grebe		
					Solar trough				T/L, power			6	Carcass									Western	1	
					 Jular trough 			Power block	I/L. Dower	Road or	Drainage	Const.			_							grebe		

conducted

Western grebe Western grebe Yellow headed blackbird

reported

heliostat

station

vehicle

channel

DESERT SUN., cont.						20	12											20						
Month	ian	feb	mar	apr	mav	iune	iulv	aug	sent	oct	nov	dec	ian	feb	mar	apr	mav	iune	iulv	aug	sent	oct	nov	dec

Western
grebe
Western
grebe
Western
grebe
Blue-winged
teal

American
coot
American
coot
Mourning
dove
Western
grebe
Yellow
headed
blackbird
Western
grebe
Blue-winged
teal

American
coot
Mourning
dove



ISEGS						20	012											20	013					
Month	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec	jan	feb	mar	apr	may	june	july	aug	sept	oct	nov	dec
Monthly Total	1	0	1	3	1	0	2	1	2	1	1	2	2	1	1	3	5	5	7	7	30	50	11	13
	Eared grebe		Black-	Savannah	Western				Western	Pine siskin	Chipping	American	White-	Cooper's	Loggerhead	Brewer's	Loggerhead	White	Greater	Lesser	Western	House finch	Rock pigeon	American Pipit
			throated	sparrow	tanager		Cuckoo	nighthawk	tanager		sparrow	coot	crowned	hawk	shrike	sparrow	shrike	throated	roadrunner	Nighthawk	tanager			
			sparrow										sparrow					swift		(DT holding pens)				
				Yellow-		1	Cooper's		American			Unknown	Loggerhead			White-	Unknown	Lesser	Blue-gray	Gnatcatcher	Unknown	House finch	Unknown	American
				rumped			hawk		coot			O TIKITO WIT	shrike				passerine	nighthawk	gnatcatcher	(DT holding	CHRIOWII	nouse inien		kestral
				warbler												sparrow			0	pens)				
																				, ,				
				American	1			-	-	_		-	-	•		Green-tailed	Horned lark	Flycatcher	Ash-throated	Common	Chipping	Yellow-	Greater	Northern
				coot												Towhee			flycatcher	raven	sparrow	rumped	roadrunner	Flicker
																						Warbler		
																	Western	Common	Black-	White-	Unknown	Verdin	Blackbird	Mourning
																	tanager	Poorwill	throated	throated			species	dove
																	Wilson's	Greater	sparrow Lesser	swift Common	MacGillivray's	Unknown	Yellow-	American coot
																	warbler	roadrunner	nighthawk	raven	warbler	Olikilowii	rumped	American coot
																	Warbier	Todar dillici	ingirciiawi.	raven	Warbier		Warbler	
																			Black-	Lazuli bunting	Blue-Gray	House finch		American pipit
																			throated		Gnatcatcher		rumped	
																			sparrow				Warbler	
																			Northern	Loggerhead	Brewer's	House finch	Greater	Great tailed
																			mockingbird	shrike	sparrow		roadrunner	Grackle

LEGEND Solar trough, T/L, power Const. Carcass Location not Power block Road or Drainage Open area Fence Pond panel, or Solar Tower Solar Flux line, sub-Laydown surveys reported or building vehicle channel station heliostat conducted

Great tailed Grackle Say's Phoebe

Western

Western neadow lark

Mourning

Brewer's

blackbird

dove

meadow lark

ISEGS, cont.						20	12											20	114					
Month	ian	foh	mar	anr	may	iuno	inly	2110	cont	oct	nov	doc	ian	foh	mar	anr	may	iuno	inly	2110	cont	oct	nov	doc

Unknown Unknown Unknown Unknown Townsend's Yellow-Warbler rumped warbler Unknown Yellowrumped warbler House finch Yellowrumped warbler Yellowrumped warbler House finch Yellowrumped warbler Black and white warbler Unknown American coot Yellowrumped warbler Yellowrumped warbler Great-tailed grackle Unknown Spotted sandpiper Yellowrumped Mourning Townsend's warbler White-

crowned sparrow Unknown

					LEG	END						
Location not reported	Open area	Fence	Pond	Solar trough, panel, or heliostat	Solar Tower	Solar Flux	Power block or building	T/L, power line, sub- station	Road or vehicle	Drainage channel	Construction laydown area	survevs