



Point Blue Conservation Science (formerly PRBO)
3820 Cypress Drive Suite 11
Petaluma, CA 94954
707.781.2555 pointblue.org

Conservation Science for a healthy planet.

February 10, 2014

Jeannine Cody
Permits, Conservation, and Education Division
National Marine Fisheries Service (NMFS)
Office of Protected Resources
1315 East-West Highway
Silver Spring, MD 20910-3226

Dear Jeannine,

Please find enclosed a summary report of pinniped takes from the Incidental Harassment Authorization (IHA) issued to Point Blue Conservation Science (formerly PRBO), Oikonos Ecosystem Knowledge, and Point Reyes National Seashore for the period of December 5, 2012 to December 6, 2013. This IHA supports central California seabird and research operations on Southeast Farallon Island, Año Nuevo Island, and Point Reyes National Seashore.

Marine mammal species that were impacted by these activities include the California stocks of northern elephant seal (*Mirounga angustirostris*), harbor seal (*Phoca vitulina richardii*), Steller sea lion (*Eumetopias jubatus*), and California sea lion (*Zalophus californianus*).

All sites reported less than requested take, and no stampede takes were reported at any site. Table 1 summarizes total take numbers for Southeast Farallon Island; Table 2 and 3 show similar results for Año Nuevo Island and Point Reyes National Seashore.

Appendix 1 lists all take for Southeast Farallon Island, by date, location, species, type and number of takes, and activity during which the take was recorded. There are also takes from elephant seal research located at the main elephant seal colony on the south side of Southeast Farallon and on periodic trips to West End Island. Sea Lion Cove, an area on the trail to North Landing, also had some California Sea Lion takes from animals hauled up uncharacteristically high. Appendix 2 and 3 are similar summaries for Año Nuevo Island and Point Reyes National Seashore.

Thank you for reviewing this report, we look forward to hearing from you.



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Sincerely,

A handwritten signature in black ink that reads "Russell Bradley".

Russell Bradley
Farallon Program Leader
California Current Division
Point Blue Conservation Science
rbradley@pointblue.org

Table 1. Summary of total IHA take numbers by species from Point Blue on Southeast Farallon Island 12/5/2012 to 12/6/2013

Species	Total Takes
Northern Elephant Seal (ES)	35
Harbor Seal (HS)	172
Steller Sea Lion (SSL)	16
California Sea Lion (CSL)	4,522

Table 2. Summary of total IHA take numbers by species from Oikonos on Año Nuevo Island 12/5/2012 to 12/6/2013

Species	Total Takes
Northern Elephant Seal (ES)	88
Harbor Seal (HS)	16
Steller Sea Lion (SSL)	4
California Sea Lion (CSL)	763

Table 3. Summary of total IHA take numbers by species from National Parks Service at Point Reyes National Seashore 12/5/2012 to 12/6/2013

Species	Total Takes
Northern Elephant Seal (ES)	1
Harbor Seal (HS)	20
Steller Sea Lion (SSL)	0
California Sea Lion (CSL)	0

Appendix 1. All Point Blue IHA take by date, species, location, type of take, and activity from Southeast Farallon Island 12/5/2012 to 12/6/2013.

Date	Species	Location	# alerted	# > 1m	# Flushed	Activity
12/11/2012	CSL	ES Colony	20	10	20	Elephant Seal Research
12/14/2012	CSL	ES Colony	7		4	Elephant Seal Research
12/15/2012	CSL	ES Colony		18		Elephant Seal Research
12/16/2012	CSL	ES Colony		20		Elephant Seal Research
12/17/2012	CSL	North Landing	20		10	Elephant Seal Research
12/17/2012	SSL	North Landing	1			Elephant Seal Research
12/18/2012	CSL	ES Colony	30	30		Elephant Seal Research
12/18/2012	HS	East Landing			5	Field Station Resupply
12/19/2012	CSL	Sea Lion Cove	15	25		Elephant Seal Research
12/20/2012	CSL	North Landing	4		18	Elephant Seal Research
12/20/2012	CSL	ES Colony	15	30		Elephant Seal Research
12/20/2012	HS	North Landing			1	Field Station Resupply
12/21/2012	CSL	ES Colony		1		Elephant Seal Research
12/22/2012	CSL	Sea Lion Cove		20		Elephant Seal Research
12/22/2012	HS	East Landing			2	Elephant Seal Research
12/25/2012	HS	East Landing	1		1	Daily Observations
12/27/2012	CSL	ES Colony		2		Elephant Seal Research
12/27/2012	HS	East Landing			4	Daily Observations
12/28/2012	CSL	Sea Lion Cove	50	50	25	Elephant Seal Research
12/28/2012	CSL	North Landing	6			Elephant Seal Research
12/28/2012	CSL	ES Colony	10			Elephant Seal Research
12/28/2012	HS	ES Colony			1	Elephant Seal Research
12/29/2012	CSL	ES Colony		50		Daily Observations
12/30/2012	ES	ES Colony	6			Elephant Seal Research
1/4/2013	CSL	ES Colony		30		Elephant Seal Research
1/5/2013	CSL	Sea Lion Cove		15		Field Station Resupply
1/6/2013	CSL	ES Colony	20	35	10	Elephant Seal Research
1/6/2013	CSL	North Landing		9	75	Field Station Resupply
1/6/2013	SSL	North Landing			1	Daily Observations
1/6/2013	HS	North Landing			2	Field Station Resupply
1/8/2013	HS	East Landing			5	Elephant Seal Research
1/11/2013	SSL	ES Colony		1		Elephant Seal Research



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1/13/2013	CSL	ES Colony	25	51		Elephant Seal Research
1/13/2013	CSL	ES Colony		10		Elephant Seal Research
1/14/2013	CSL	ES Colony		20		Elephant Seal Research
1/15/2013	CSL	ES Colony		3	10	Elephant Seal Research
1/16/2013	CSL	ES Colony	20	10	5	Elephant Seal Research
1/16/2013	HS	North Landing			1	Elephant Seal Research
1/20/2013	CSL	ES Colony		50		Elephant Seal Research
1/21/2013	CSL	ES Colony	10			Elephant Seal Research
1/22/2013	CSL	ES Colony	10	10	20	Elephant Seal Research
1/24/2013	CSL	ES Colony	10			Elephant Seal Research
1/25/2013	CSL	ES Colony		2	1	Elephant Seal Research
1/25/2013	HS	ES Colony			2	Elephant Seal Research
1/27/2013	CSL	ES Colony	10		20	Elephant Seal Research
1/27/2013	HS	East Landing			3	Daily Observations
1/28/2013	CSL	ES Colony		10		Elephant Seal Research
1/29/2013	CSL	ES Colony	14		5	Elephant Seal Research
1/30/2013	CSL	ES Colony	2		30	Elephant Seal Research
1/30/2013	CSL	Sea Lion Cove	20	10		Daily Observations
1/30/2013	HS	East Landing			3	Salamander survey
1/30/2013	ES	ES Colony	5	2		Elephant Seal Research
2/3/2013	CSL	ES Colony	10		9	Elephant Seal Research
2/3/2013	HS	ES Colony			1	Elephant Seal Research
2/5/2013	ES	ES Colony	4	2		Elephant Seal Research
2/7/2013	CSL	ES Colony	8	2	18	Elephant Seal Research
2/8/2013	CSL	ES Colony	2	4	9	Elephant Seal Research
2/9/2013	CSL	ES Colony		25		Elephant Seal Research
2/10/2013	CSL	West End Island	100	150		Elephant Seal Research
2/15/2013	CSL	ES Colony		2	3	Elephant Seal Research
2/17/2013	CSL	ES Colony		1	31	Elephant Seal Research
2/18/2013	CSL	ES Colony		5	25	Elephant Seal Research
2/18/2013	HS	North Landing		1		Elephant Seal Research
2/19/2013	CSL	ES Colony		40	15	Elephant Seal Research
2/20/2013	SSL	ES Colony	1			Elephant Seal Research
2/20/2013	HS	ES Colony			1	Daily Observations
2/21/2013	CSL	ES Colony		1		Elephant Seal Research
2/23/2013	CSL	ES Colony	15			Elephant Seal Research
2/23/2013	HS	ES Colony			2	Daily Observations



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2/25/2013	CSL	ES Colony	60	30	10	Elephant Seal Research
2/26/2013	CSL	West End Island	50	50		Elephant Seal Research
2/26/2013	CSL	West End Island		25		Elephant Seal Research
2/26/2013	SSL	ES Colony			1	Elephant Seal Research
2/27/2013	HS	East Landing	1			Daily Observations
2/28/2013	CSL	ES Colony	25	20		Elephant Seal Research
2/28/2013	CSL	ES Colony	5			Elephant Seal Research
3/1/2013	CSL	ES Colony	5	15		Elephant Seal Research
3/1/2013	HS	East Landing			1	Daily Observations
3/2/2013	CSL	ES Colony	20	50	20	Field Station Resupply
3/3/2013	CSL	ES Colony	25	30	6	Elephant Seal Research
3/4/2013	CSL	ES Colony	10	30	5	Elephant Seal Research
3/5/2013	HS	ES Colony			1	Elephant Seal Research
3/6/2013	CSL	ES Colony		6		Elephant Seal Research
3/7/2013	CSL	ES Colony	1	4		Elephant Seal Research
3/7/2013	HS	ES Colony			2	Elephant Seal Research
3/9/2013	CSL	ES Colony	1	30	10	Elephant Seal Research
3/13/2013	CSL	ES Colony		5		Daily Observations
3/14/2013	CSL	ES Colony		6		Elephant Seal Research
3/15/2013	CSL	ES Colony	50	30		Elephant Seal Research
3/17/2013	CSL	ES Colony		10		Elephant Seal Research
3/18/2013	CSL	ES Colony	20			Elephant Seal Research
3/19/2013	HS	East Landing			5	Daily Observations
3/20/2013	HS	East Landing	5		1	Daily Observations
3/21/2013	CSL	ES Colony	20	30		Elephant Seal Research
3/22/2013	CSL	North Landing		10		Daily Observations
3/23/2013	HS	East Landing			2	Daily Observations
3/26/2013	HS	East Landing			7	Field Station Resupply
3/29/2013	HS	East Landing	10		2	Daily Observations
3/30/2013	HS	East Landing			7	Field Station Resupply
4/2/2013	HS	East Landing			7	Field Station Resupply
4/3/2013	HS	East Landing			3	Daily Observations
4/4/2013	HS	East Landing			7	Daily Observations
4/5/2013	HS	East Landing			6	Daily Observations
4/5/2013	ES	ES Colony	3			Elephant Seal Research
4/6/2013	HS	East Landing			6	Elephant Seal Research
4/7/2013	CSL	ES Colony		6		Elephant Seal Research



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4/7/2013	HS	East Landing			7	Daily Observations
4/12/2013	HS	East Landing			3	Daily Observations
4/14/2013	CSL	North Landing	3	2		Daily Observations
5/8/2013	HS	East Landing			3	Daily Observations
5/22/2013	CSL	North Landing		1		Murre Research
5/23/2013	CSL	North Landing		10	25	Field Station Resupply
5/27/2013	CSL	East Landing	5	1		Elephant Seal Research
5/28/2013	HS	East Landing			1	Daily Observations
5/30/2013	HS	East Landing			5	Daily Observations
6/2/2013	ES	ES Colony	4	2		Elephant Seal Research
6/5/2013	CSL	East Landing	3		2	Elephant Seal Research
6/6/2013	CSL	East Landing	2		1	Daily Observations
6/10/2013	CSL	North Landing	20		8	Murre Research
6/15/2013	CSL	North Landing		30		Daily Observations
6/16/2013	HS	East Landing			10	Daily Observations
6/17/2013	CSL	North Landing	25			Daily Observations
6/17/2013	HS	East Landing			1	Daily Observations
6/18/2013	CSL	East Landing		2		Daily Observations
6/18/2013	HS	East Landing			1	Daily Observations
6/19/2013	CSL	North Landing	1	1		Murre Research
6/21/2013	CSL	East Landing	10		56	Daily Observations
6/21/2013	HS	East Landing			2	Daily Observations
6/22/2013	CSL	North Landing	2			Murre Research
6/23/2013	CSL	North Landing	50	50		Murre Research
6/23/2013	CSL	East Landing		20	20	Daily Observations
6/23/2013	CSL	North Landing	4		15	Murre Research
6/24/2013	CSL	North Landing	30	45		Murre Research
6/24/2013	CSL	East Landing	2		8	Daily Observations
6/25/2013	CSL	North Landing	30	30		Murre Research
6/25/2013	CSL	East Landing		2		Daily Observations
6/26/2013	CSL	North Landing	15	10		Murre Research
6/27/2013	CSL	North Landing	10	50		Murre Research
6/27/2013	CSL	East Landing		17	18	Daily Observations
6/28/2013	CSL	East Landing		10		Daily Observations
6/28/2013	CSL	East Landing		1		Daily Observations
6/28/2013	CSL	North Landing	12	18		Murre Research
6/28/2013	CSL	North Landing		47	22	Murre Research



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6/28/2013	SSL	North Landing			1	Daily Observations
6/28/2013	HS	North Landing		1		Murre Research
6/29/2013	CSL	ES Colony		10		Daily Observations
6/30/2013	CSL	North Landing		6		Murre Research
6/30/2013	CSL	East Landing		1		Daily Observations
7/1/2013	CSL	North Landing		1		Murre Research
7/2/2013	CSL	North Landing		20		Murre Research
7/4/2013	CSL	North Landing		4		Daily Observations
7/4/2013	CSL	East Landing	9			Daily Observations
7/5/2013	CSL	North Landing		52		Murre Research
7/5/2013	HS	East Landing			1	Daily Observations
7/6/2013	CSL	North Landing		79		Daily Observations
7/6/2013	SSL	North Landing		4		Daily Observations
7/7/2013	CSL	North Landing	20	40	5	Murre Research
7/7/2013	CSL	North Landing		25		Daily Observations
7/7/2013	CSL	East Landing		10		Daily Observations
7/10/2013	CSL	North Landing		15		Daily Observations
7/11/2013	CSL	North Landing	45	13		Elephant Seal Research
7/11/2013	HS	East Landing			4	Daily Observations
7/12/2013	HS	North Landing			1	Murre Research
7/13/2013	CSL	North Landing		50		Daily Observations
7/14/2013	CSL	ES Colony		50		Daily Observations
7/14/2013	CSL	North Landing		12		Murre Research
7/14/2013	SSL	ES Colony		5		Daily Observations
7/15/2013	CSL	North Landing	30	20		Murre Research
7/16/2013	CSL	North Landing		1		Daily Observations
7/16/2013	CSL	Sea Lion Cove		7		Murre Research
7/18/2013	CSL	North Landing		50		Daily Observations
7/20/2013	CSL	North Landing		70		Daily Observations
7/21/2013	CSL	Sea Lion Cove		20		Daily Observations
7/22/2013	CSL	North Landing		20		Murre Research
7/23/2013	CSL	North Landing		9		Daily Observations
7/23/2013	CSL	North Landing		30		Daily Observations
7/23/2013	CSL	East Landing		1		Daily Observations
7/24/2013	CSL	North Landing		3		Murre Research
7/24/2013	CSL	Sea Lion Cove		1		Murre Research
7/25/2013	CSL	East Landing		1	3	Daily Observations



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7/25/2013	HS	East Landing			1	Daily Observations
7/27/2013	HS	East Landing			1	Daily Observations
8/5/2013	ES	ES Colony	3	2		Elephant Seal Research
8/6/2013	CSL	Sea Lion Cove		15		Daily Observations
8/7/2013	CSL	East Landing		2		Daily Observations
8/7/2013	CSL	North Landing		5		Elephant Seal Research
8/8/2013	HS	East Landing			2	Daily Observations
8/13/2013	CSL	North Landing		75		Daily Observations
8/16/2013	CSL	North Landing		100		Daily Observations
8/18/2013	CSL	North Landing		50		Field Station Resupply
8/19/2013	CSL	North Landing		30		Daily Observations
8/22/2013	CSL	North Landing		25		Daily Observations
8/22/2013	HS	East Landing			9	Daily Observations
8/24/2013	CSL	North Landing		50	50	Field Station Resupply
8/26/2013	CSL	North Landing		15		Daily Observations
8/28/2013	CSL	North Landing		14		Daily Observations
9/9/2013	CSL	North Landing		3		Elephant Seal Research
9/23/2013	CSL	East Landing		1		Daily Observations
9/25/2013	CSL	North Landing		6		Daily Observations
9/29/2013	CSL	Sea Lion Cove		25		Daily Observations
10/1/2013	CSL	Sea Lion Cove		20		Daily Observations
10/1/2013	CSL	ES Colony		50		Pinniped census
10/7/2013	CSL	West End Island		100	25	Pinniped Research
10/7/2013	SSL	West End Island		1		Pinniped Research
10/11/2013	HS	Sea Lion Cove			6	Daily Observations
10/19/2013	HS	East Landing		1	2	Daily Observations
10/20/2013	HS	ES Colony			1	Daily Observations
10/24/2013	CSL	ES Colony		75		Pinniped Research
10/30/2013	CSL	North Landing		20	10	Daily Observations
11/15/2013	CSL	North Landing		30		Daily Observations
12/1/2013	CSL	ES Colony		20		Daily Observations
12/1/2013	ES	ES Colony	2			Elephant Seal Research

Appendix 2. All Oikonos IHA take by date, species, location, type of take, and activity from Año Nuevo Island 12/6/2012 to 12/5/2013.

Date	Species	Location	# alerted	# > 1m	# Flushed	Activity
4/4/2013	CSL	Landing Cove	0	0	0	seabird monitoring
4/4/2013	ES	Landing Cove	5	1	0	seabird monitoring
4/4/2013	HS	Landing Cove	0	0	0	seabird monitoring
4/4/2013	SSL	Landing Cove	0	0	0	seabird monitoring
4/11/2013	CSL	Landing Cove	0	0	0	seabird monitoring
4/11/2013	ES	Landing Cove	4	1	2	seabird monitoring
4/11/2013	HS	Landing Cove	0	0	0	seabird monitoring
4/11/2013	SSL	Landing Cove	0	0	0	seabird monitoring
4/16/2013	CSL	Landing Cove	0	0	0	seabird monitoring
4/16/2013	ES	Landing Cove	5	0	0	seabird monitoring
4/16/2013	HS	Landing Cove	0	0	2	seabird monitoring
4/16/2013	SSL	Landing Cove	0	0	0	seabird monitoring
4/26/2013	CSL	Landing Cove	0	0	0	seabird monitoring
4/26/2013	ES	Landing Cove	4	1	1	seabird monitoring
4/26/2013	HS	Landing Cove	0	0	2	seabird monitoring
4/26/2013	SSL	Landing Cove	0	0	0	seabird monitoring
5/1/2013	CSL	Landing Cove	0	0	0	seabird monitoring
5/1/2013	ES	Landing Cove	4	0	0	seabird monitoring
5/1/2013	HS	Landing Cove	0	0	0	seabird monitoring
5/1/2013	SSL	Landing Cove	0	0	0	seabird monitoring
5/9/2013	HS	Landing Cove	0	0	0	seabird monitoring
5/9/2013	SSL	Landing Cove	0	0	0	seabird monitoring
5/16/2013	CSL	Landing Cove	5	5	1	seabird monitoring
5/16/2013	ES	Landing Cove	3	0	0	seabird monitoring
5/16/2013	HS	Landing Cove	0	0	2	seabird monitoring
5/16/2013	SSL	Landing Cove	0	0	0	seabird monitoring
5/23/2013	CSL	Landing Cove	7	6	4	seabird monitoring
5/23/2013	ES	Landing Cove	3	0	0	seabird monitoring
5/23/2013	HS	Landing Cove	0	0	2	seabird monitoring
5/23/2013	SSL	Landing Cove	0	0	0	seabird monitoring
5/30/2013	CSL	Landing Cove	10	2	2	seabird monitoring
5/30/2013	ES	Landing Cove	4	0	0	seabird monitoring



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5/30/2013	HS	Landing Cove	0	0	0	seabird monitoring
5/30/2013	SSL	Landing Cove	0	0	0	seabird monitoring
6/5/2013	CSL	Landing Cove	15	5	2	seabird monitoring
6/5/2013	ES	Landing Cove	6	1	1	seabird monitoring
6/5/2013	HS	Landing Cove	0	0	0	seabird monitoring
6/5/2013	SSL	Landing Cove	0	0	0	seabird monitoring
6/13/2013	CSL	Landing Cove	20	2	0	seabird monitoring
6/13/2013	ES	Landing Cove	6	1	0	seabird monitoring
6/13/2013	HS	Landing Cove	0	0	0	seabird monitoring
6/13/2013	SSL	Landing Cove	0	0	0	seabird monitoring
6/20/2013	CSL	Landing Cove	18	15	5	seabird monitoring
6/20/2013	ES	Landing Cove	5	2	0	seabird monitoring
6/20/2013	HS	Landing Cove	0	0	0	seabird monitoring
6/20/2013	SSL	Landing Cove	0	0	0	seabird monitoring
6/27/2013	CSL	Landing Cove	15	8	5	seabird monitoring
6/27/2013	ES	Landing Cove	2	0	0	seabird monitoring
6/27/2013	HS	Landing Cove	0	0	0	seabird monitoring
6/27/2013	SSL	Landing Cove	0	0	0	seabird monitoring
7/3/2013	CSL	Landing Cove	16	12	4	seabird monitoring
7/3/2013	ES	Landing Cove	3	2	2	seabird monitoring
7/3/2013	HS	Landing Cove	0	0	0	seabird monitoring
7/3/2013	SSL	Landing Cove	0	0	0	seabird monitoring
7/11/2013	CSL	Landing Cove	20	30	10	seabird monitoring
7/11/2013	ES	Landing Cove	6	2	0	seabird monitoring
7/11/2013	HS	Landing Cove	0	0	0	seabird monitoring
7/11/2013	SSL	Landing Cove	0	0	0	seabird monitoring
7/18/2013	CSL	Landing Cove	30	10	10	seabird monitoring
7/18/2013	ES	Landing Cove	6	1	0	seabird monitoring
7/18/2013	HS	Landing Cove	0	0	0	seabird monitoring
7/18/2013	SSL	Landing Cove	0	0	0	seabird monitoring
7/25/2013	CSL	Landing Cove	30	10	5	seabird monitoring
7/25/2013	ES	Landing Cove	3	1	0	seabird monitoring
7/25/2013	HS	Landing Cove	0	0	0	seabird monitoring
7/25/2013	SSL	Landing Cove	1	0	0	seabird monitoring
8/1/2013	CSL	Landing Cove	50	20	10	seabird monitoring
8/1/2013	ES	Landing Cove	0	0	0	seabird monitoring
8/1/2013	HS	Landing Cove	0	0	0	seabird monitoring



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8/1/2013	SSL	Landing Cove	1	0	1	seabird monitoring
8/8/2013	CSL	Landing Cove	45	10	4	seabird monitoring
8/8/2013	ES	Landing Cove	0	0	0	seabird monitoring
8/8/2013	HS	Landing Cove	0	0	0	seabird monitoring
8/8/2013	SSL	Landing Cove	1	0	0	seabird monitoring
8/15/2013	CSL	Landing Cove	45	15	10	seabird monitoring
8/15/2013	ES	Landing Cove	0	0	0	seabird monitoring
8/15/2013	HS	Landing Cove	0	0	0	seabird monitoring
8/15/2013	SSL	Landing Cove	0	0	0	seabird monitoring
8/23/2013	CSL	Landing Cove	60	30	20	Field station maintenance
8/23/2013	ES	Landing Cove	0	0	0	Field station maintenance
8/23/2013	HS	Landing Cove	0	0	0	Field station maintenance
8/23/2013	SSL	Landing Cove	0	0	0	Field station maintenance
8/28/2013	CSL	Landing Cove	60	30	15	Field station maintenance
8/28/2013	ES	Landing Cove	0	0	0	Field station maintenance
8/28/2013	HS	Landing Cove	0	0	0	Field station maintenance
8/28/2013	SSL	Landing Cove	0	0	0	Field station maintenance

Appendix 3. All Point Reyes National Seashore IHA take by date, species, location, type of take and activity at National Parks in the San Francisco Bay Area, California 12/6/2012 to 12/5/2013.

Date	Species	Location	# alerted	# > 1m	# Flushed	Activity
1/18/2013	ES	South Beach, Point Reyes	0	10	1	Move of parking lot for public safety
6/11/2013	HS	Point Bonita, Marin Co.	10	5	5	Intertidal monitoring