



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.

March 24, 2023

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

Please find enclosed a summary report of incidental pinniped takes for 2022 under authorizations issued to Point Blue Conservation Science (formerly PRBO), Oikonos Ecosystem Knowledge, and Point Reyes National Seashore. During 2022, incidental harassment takes were covered by a five-year Letter of Authorization (LOA) covering July 1, 2022 to June 30, 2026. These authorizations support central California seabird research and related 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*). Small numbers of northern fur seal (*Callorhinus ursinus*) and Guadalupe fur seal (*Arctocephalus philippii townsendi*) takes are also permitted under this LOA but were not impacted this year. Año Nuevo Island and Point Reyes National Seashore reported less than requested take, and no stampede takes were reported at any site. Southeast Farallon Island had more than the allotted take for Steller Sea Lion and Northern Fur Seals.

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. Table 4 shows the total take for all sites covered by the IHA and LOA, as well as the authorized take for comparison. Additional directed take to prevent damage to critical infrastructure and ensure human safety was conducted in accordance with sections 101(a)(4) or 109(h) of the MMPA, but those numbers are not reported here.

Appendices 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. Appendix 2 and 3 are similar summaries for Año Nuevo Island and Point Reyes National Seashore. Though still within our authorized take allowance, incidental take numbers for California sea lions at the Farallones increased this year due to large numbers of animals hauling out high on the marine terrace during summer and early fall. During 2022, the high count for California sea lions on a single survey was over 14,000 animals, almost twice the long-term average annual high count for this location. Point Reyes conducted limited seabird surveys during 2022 and therefore did not report any takes during the current permit.

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

Sincerely,



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.

A handwritten signature in black ink, appearing to read "Pete Warzybok", is positioned above the typed name.

Pete Warzybok
Senior Marine Ecologist/Farallon Program Leader
Point Blue Conservation Science
pwarzybok@pointblue.org

Conservation Science for a healthy planet.

Table 1. Summary of total IHA take numbers by species from Point Blue on Southeast Farallon Island 1/1/2022 to 12/31/2022.

Species	Total Takes
Northern Elephant Seal (ES)	4
Harbor Seal (HS)	99
Steller Sea Lion (SSL)	9
California Sea Lion (CSL)	37,866
Northern Fur Seal (NFS)	0

Table 2. Summary of total IHA take numbers by species from Oikonos on Año Nuevo Island 1/1/2022 to 12/31/2022.

Species	Total Takes
Northern Elephant Seal (ES)	63
Harbor Seal (HS)	0
Steller Sea Lion (SSL)	0
California Sea Lion (CSL)	478

Table 3. Summary of total IHA take numbers by species from National Parks Service at Point Reyes National Seashore 1/1/2022 to 12/31/2022.

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

Table 4. Grand totals for all permitted take allowed under this Incidental Harassment Authorization from 1/1/2022 to 12/31/2022.

Species	Total Takes	Authorized Take
California Sea Lion (CSL)	38,344	40,059
Northern Elephant Seal (ES)	67	239
Harbor Seal (HS)	99	321
Steller Sea Lion (SSL)	9	72
Northern Fur Seal (NFS)	0	20
Guadalupe Fur Seal (GFS)	0	5



Conservation Science for a healthy planet.

Appendix 1. All Point Blue IHA take by date, species, location, type of take, and activity from Southeast Farallon Island 1/1/2022 to 12/31/2022.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
1/1/2022	CSL	Garbage Gulch	40		Daily Operations
1/1/2022	CSL	Pinniped Colony	1		Daily Operations
1/2/2022	CSL	Pinniped Colony	30	121	Daily Operations
1/2/2022	CSL	Pinniped Colony	53		Daily Operations
1/2/2022	CSL	Pinniped Colony	10	51	Daily Operations
1/2/2022	CSL	West End	10	40	Daily Operations
1/2/2022	CSL	West End		71	Daily Operations
1/2/2022	CSL	West End		1	Daily Operations
1/2/2022	CSL	Pinniped Colony	3		Daily Operations
1/4/2022	CSL	Marine Terrace	1		Daily Operations
1/4/2022	CSL	Pinniped Colony	9		Daily Operations
1/5/2022	CSL	Sea Lion Cove		70	Daily Operations
1/5/2022	CSL	North Landing		10	Daily Operations
1/6/2022	CSL	Pinniped Colony	2		Daily Operations
1/6/2022	CSL	Pinniped Colony		1	Daily Operations
1/6/2022	CSL	North Landing		5	Daily Operations
1/7/2022	CSL	Pinniped Colony	20		Daily Operations
1/10/2022	CSL	Pinniped Colony	1		Daily Operations
1/10/2022	CSL	North Landing	7		Daily Operations
1/11/2022	CSL	Garbage Gulch	2		Daily Operations
1/11/2022	CSL	North Landing	5		Daily Operations
1/12/2022	CSL	Pinniped Colony	2		Daily Operations
1/12/2022	CSL	Pinniped Colony	1		Daily Operations
1/14/2022	CSL	Pinniped Colony		1	Daily Operations
1/15/2022	CSL	Pinniped Colony	1		Daily Operations
1/15/2022	CSL	Pinniped Colony	1		Daily Operations
1/16/2022	CSL	Pinniped Colony	40	190	Daily Operations
1/16/2022	CSL	West End	89		Daily Operations
1/16/2022	CSL	West End		370	Daily Operations
1/16/2022	CSL	West End	105		Daily Operations
1/16/2022	CSL	West End		50	Daily Operations
1/16/2022	CSL	West End		75	Daily Operations
1/16/2022	CSL	Garbage Gulch	2		Daily Operations
1/16/2022	CSL	Pinniped Colony	2		Daily Operations
1/16/2022	CSL	Pinniped Colony		1	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
1/17/2022	CSL	Pinniped Colony	1		Daily Operations
1/18/2022	CSL	Pinniped Colony	2		Daily Operations
1/18/2022	CSL	North Landing	15		Daily Operations
1/20/2022	CSL	North Landing	20		Daily Operations
1/20/2022	CSL	Pinniped Colony	1		Daily Operations
1/22/2022	CSL	Garbage Gulch	7		Daily Operations
1/24/2022	CSL	Pinniped Colony	7		Daily Operations
1/25/2022	CSL	Pinniped Colony		25	Daily Operations
1/26/2022	CSL	Pinniped Colony	1		Daily Operations
1/28/2022	CSL	Pinniped Colony	1		Daily Operations
1/28/2022	CSL	Pinniped Colony	1		Daily Operations
1/28/2022	CSL	Pinniped Colony	167		Daily Operations
1/28/2022	CSL	West End	38		Daily Operations
1/28/2022	CSL	West End		40	Daily Operations
1/28/2022	CSL	West End		70	Daily Operations
1/28/2022	CSL	West End	168	120	Daily Operations
1/29/2022	CSL	Pinniped Colony	1		Daily Operations
1/29/2022	CSL	Pinniped Colony	1		Daily Operations
1/30/2022	CSL	Pinniped Colony		20	Daily Operations
1/31/2022	CSL	Pinniped Colony		1	Daily Operations
1/31/2022	CSL	Pinniped Colony	30	80	Daily Operations
2/1/2022	CSL	East Landing	1		Daily Operations
2/1/2022	CSL	Pinniped Colony	7		Daily Operations
2/2/2022	CSL	Pinniped Colony	1	1	Daily Operations
2/2/2022	CSL	Pinniped Colony		30	Daily Operations
2/2/2022	CSL	Pinniped Colony	1		Daily Operations
2/5/2022	CSL	Pinniped Colony	2		Daily Operations
2/5/2022	CSL	Pinniped Colony	1		Daily Operations
2/6/2022	CSL	North Landing		30	Daily Operations
2/6/2022	CSL	Pinniped Colony	2		Daily Operations
2/6/2022	CSL	Pinniped Colony	1		Daily Operations
2/7/2022	CSL	Pinniped Colony		3	Daily Operations
2/7/2022	CSL	North Landing		50	Daily Operations
2/8/2022	CSL	Garbage Gulch	1		Daily Operations
2/8/2022	CSL	Pinniped Colony		30	Daily Operations
2/9/2022	CSL	North Landing	3		Daily Operations
2/11/2022	CSL	Pinniped Colony	4		Daily Operations
2/12/2022	CSL	Pinniped Colony	1	32	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
2/12/2022	CSL	West End	88	20	Daily Operations
2/12/2022	CSL	West End	10	50	Daily Operations
2/12/2022	CSL	West End		44	Daily Operations
2/12/2022	CSL	West End	20	25	Daily Operations
2/13/2022	CSL	Pinniped Colony	2		Daily Operations
2/13/2022	CSL	North Landing	1		Daily Operations
2/14/2022	CSL	Marine Terrace	1		Daily Operations
2/15/2022	CSL	Pinniped Colony	1		Daily Operations
2/15/2022	CSL	Sea Lion Cove		20	Daily Operations
2/16/2022	CSL	Pinniped Colony	2		Daily Operations
2/16/2022	CSL	Pinniped Colony	1		Daily Operations
2/20/2022	CSL	Pinniped Colony		1	Daily Operations
2/20/2022	CSL	Pinniped Colony		1	Daily Operations
2/21/2022	CSL	Marine Terrace	2		Daily Operations
2/21/2022	CSL	Pinniped Colony	1		Daily Operations
2/21/2022	CSL	Pinniped Colony		10	Daily Operations
2/22/2022	CSL	Pinniped Colony	1		Daily Operations
2/23/2022	CSL	Pinniped Colony		20	Daily Operations
2/25/2022	CSL	Pinniped Colony	1		Daily Operations
2/25/2022	CSL	Pinniped Colony	1		Daily Operations
2/26/2022	CSL	Pinniped Colony	1		Daily Operations
2/26/2022	CSL	Pinniped Colony	1		Daily Operations
2/27/2022	CSL	Pinniped Colony	1		Daily Operations
2/27/2022	CSL	North Landing	3		Daily Operations
3/1/2022	CSL	North Landing	1		Daily Operations
3/1/2022	CSL	Pinniped Colony	4		Daily Operations
3/2/2022	CSL	North Landing	1		Daily Operations
3/4/2022	CSL	Pinniped Colony	1		Daily Operations
3/5/2022	CSL	Pinniped Colony	4		Daily Operations
3/7/2022	CSL	Pinniped Colony	3		Daily Operations
3/7/2022	CSL	Pinniped Colony	1		Daily Operations
3/8/2022	CSL	Pinniped Colony		10	Daily Operations
3/8/2022	CSL	West End	43	9	Daily Operations
3/8/2022	CSL	West End		31	Daily Operations
3/8/2022	CSL	West End	50		Daily Operations
3/9/2022	CSL	Pinniped Colony	4		Daily Operations
3/11/2022	CSL	Pinniped Colony	3		Daily Operations
3/11/2022	CSL	Pinniped Colony	2		Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
3/12/2022	CSL	Pinniped Colony	1		Daily Operations
3/12/2022	CSL	Pinniped Colony	1		Daily Operations
3/12/2022	CSL	Garbage Gulch	1		Daily Operations
3/14/2022	CSL	Pinniped Colony	2		Daily Operations
3/14/2022	CSL	Pinniped Colony	1		Daily Operations
3/15/2022	CSL	Pinniped Colony	1		Daily Operations
3/16/2022	CSL	Pinniped Colony	3		Daily Operations
3/18/2022	CSL	Pinniped Colony	1		Daily Operations
3/19/2022	CSL	Pinniped Colony	2		Daily Operations
3/19/2022	CSL	Pinniped Colony	1		Daily Operations
3/20/2022	CSL	Pinniped Colony	1		Daily Operations
3/27/2022	CSL	Pinniped Colony		15	Daily Operations
4/6/2022	CSL	Pinniped Colony		3	Daily Operations
4/25/2022	CSL	North Landing	2		Daily Operations
4/27/2022	CSL	North Landing	5		Daily Operations
5/12/2022	CSL	North Landing	6		Daily Operations
5/16/2022	CSL	Pinniped Colony	1		Daily Operations
5/18/2022	CSL	North Landing	12		Daily Operations
5/21/2022	CSL	North Landing	20		Daily Operations
5/22/2022	CSL	Pinniped Colony	3		Daily Operations
5/25/2022	CSL	Pinniped Colony	22		Daily Operations
5/26/2022	CSL	Marine Terrace	1		Daily Operations
5/28/2022	CSL	North Landing		1	Daily Operations
5/31/2022	CSL	Marine Terrace	2		Daily Operations
6/1/2022	CSL	East Landing	1		Daily Operations
6/1/2022	CSL	North Landing		1	Daily Operations
6/1/2022	CSL	Marine Terrace		3	Daily Operations
6/1/2022	CSL	Marine Terrace	3		Daily Operations
6/4/2022	CSL	Pinniped Colony	1		Daily Operations
6/5/2022	CSL	Pinniped Colony		2	Daily Operations
6/5/2022	CSL	Sea Lion Cove		1	Daily Operations
6/6/2022	CSL	Pinniped Colony	13		Daily Operations
6/7/2022	CSL	Sea Lion Cove		20	Daily Operations
6/8/2022	CSL	East Landing	2		Daily Operations
6/8/2022	CSL	Garbage Gulch	1		Daily Operations
6/8/2022	CSL	North Landing	5		Daily Operations
6/8/2022	CSL	North Landing		3	Daily Operations
6/9/2022	CSL	North Landing	3		Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
6/9/2022	CSL	Marine Terrace	2		Daily Operations
6/9/2022	CSL	Marine Terrace	5		Daily Operations
6/9/2022	CSL	Marine Terrace	3		Daily Operations
6/10/2022	CSL	East Landing	3		Daily Operations
6/10/2022	CSL	Marine Terrace	2		Daily Operations
6/11/2022	CSL	Marine Terrace	4		Daily Operations
6/11/2022	CSL	Garbage Gulch	1		Daily Operations
6/11/2022	CSL	Marine Terrace	3		Daily Operations
6/11/2022	CSL	North Landing	1		Daily Operations
6/13/2022	CSL	Pinniped Colony		3	Daily Operations
6/13/2022	CSL	Pinniped Colony		1	Daily Operations
6/14/2022	CSL	Pinniped Colony		5	Daily Operations
6/15/2022	CSL	Marine Terrace		2	Daily Operations
6/15/2022	CSL	Pinniped Colony		2	Daily Operations
6/16/2022	CSL	East Landing		23	Daily Operations
6/18/2022	CSL	North Landing		6	Daily Operations
6/23/2022	CSL	North Landing		4	Daily Operations
6/25/2022	CSL	Pinniped Colony		15	Daily Operations
6/25/2022	CSL	Marine Terrace		2	Daily Operations
6/25/2022	CSL	North Landing		8	Daily Operations
6/26/2022	CSL	Garbage Gulch	1	4	Daily Operations
6/28/2022	CSL	East Landing		4	Daily Operations
6/28/2022	CSL	Marine Terrace		2	Daily Operations
6/29/2022	CSL	Marine Terrace		1	Daily Operations
6/29/2022	CSL	East Landing	1		Daily Operations
6/29/2022	CSL	Garbage Gulch	2		Daily Operations
7/1/2022	CSL	Marine Terrace	1	5	Daily Operations
7/1/2022	CSL	Pinniped Colony		2	Daily Operations
7/2/2022	CSL	East Landing	1	9	Daily Operations
7/2/2022	CSL	North Landing		4	Daily Operations
7/3/2022	CSL	North Landing		10	Daily Operations
7/5/2022	CSL	North Landing	6		Daily Operations
7/5/2022	CSL	Marine Terrace		2	Daily Operations
7/6/2022	CSL	Garbage Gulch	6		Daily Operations
7/8/2022	CSL	North Landing	20		Daily Operations
7/9/2022	CSL	Marine Terrace	80		Daily Operations
7/10/2022	CSL	Marine Terrace	1	13	Daily Operations
7/11/2022	CSL	Garbage Gulch	42		Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
7/11/2022	CSL	Garbage Gulch		30	Daily Operations
7/11/2022	CSL	Marine Terrace	4	26	Daily Operations
7/11/2022	CSL	Pinniped Colony		4	Daily Operations
7/12/2022	CSL	Sea Lion Cove	6		Daily Operations
7/12/2022	CSL	Pinniped Colony	8	9	Daily Operations
7/15/2022	CSL	Sea Lion Cove		6	Daily Operations
7/15/2022	CSL	Pinniped Colony		55	Daily Operations
7/16/2022	CSL	Marine Terrace		120	Daily Operations
7/16/2022	CSL	Pinniped Colony		51	Daily Operations
7/16/2022	CSL	Garbage Gulch	65		Daily Operations
7/17/2022	CSL	North Landing	12		Daily Operations
7/17/2022	CSL	Marine Terrace	4	85	Daily Operations
7/18/2022	CSL	Marine Terrace	20	60	Daily Operations
7/18/2022	CSL	Sea Lion Cove		11	Daily Operations
7/19/2022	CSL	North Landing		50	Daily Operations
7/19/2022	CSL	Pinniped Colony		80	Daily Operations
7/20/2022	CSL	Garbage Gulch	27		Daily Operations
7/20/2022	CSL	Marine Terrace		4	Daily Operations
7/20/2022	CSL	North Landing		50	Daily Operations
7/21/2022	CSL	Marine Terrace	20	80	Daily Operations
7/21/2022	CSL	Garbage Gulch	10	30	Daily Operations
7/21/2022	CSL	Pinniped Colony		80	Daily Operations
7/21/2022	CSL	Sea Lion Cove		3	Daily Operations
7/21/2022	CSL	Marine Terrace		70	Daily Operations
7/23/2022	CSL	North Landing		150	Daily Operations
7/23/2022	CSL	Marine Terrace		150	Daily Operations
7/24/2022	CSL	Marine Terrace	30	55	Daily Operations
7/24/2022	CSL	Sea Lion Cove		250	Daily Operations
7/24/2022	CSL	Pinniped Colony		30	Daily Operations
7/25/2022	CSL	Marine Terrace	15	35	Daily Operations
7/25/2022	CSL	Pinniped Colony		7	Daily Operations
7/26/2022	CSL	Marine Terrace		30	Daily Operations
7/26/2022	CSL	Marine Terrace		85	Daily Operations
7/26/2022	CSL	Sea Lion Cove		20	Daily Operations
7/26/2022	CSL	North Landing		125	Daily Operations
7/26/2022	CSL	Garbage Gulch	15		Daily Operations
7/27/2022	CSL	Sea Lion Cove		6	Daily Operations
7/27/2022	CSL	Sea Lion Cove		1	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
7/27/2022	CSL	North Landing		250	Daily Operations
7/27/2022	CSL	Marine Terrace		30	Daily Operations
7/27/2022	CSL	Marine Terrace		35	Daily Operations
7/28/2022	CSL	North Landing		200	Daily Operations
7/28/2022	CSL	Marine Terrace		120	Daily Operations
7/29/2022	CSL	Marine Terrace		400	Daily Operations
7/29/2022	CSL	Sea Lion Cove		100	Daily Operations
7/29/2022	CSL	North Landing		150	Daily Operations
7/29/2022	CSL	Marine Terrace		800	Daily Operations
7/30/2022	CSL	Sea Lion Cove		15	Daily Operations
7/30/2022	CSL	North Landing		200	Daily Operations
7/30/2022	CSL	East Landing	20	60	Daily Operations
7/30/2022	CSL	Marine Terrace		800	Daily Operations
7/31/2022	CSL	Sea Lion Cove		35	Daily Operations
7/31/2022	CSL	Marine Terrace	6	30	Daily Operations
7/31/2022	CSL	Garbage Gulch	20		Daily Operations
7/31/2022	CSL	Pinniped Colony		50	Daily Operations
8/1/2022	CSL	Sea Lion Cove		15	Daily Operations
8/2/2022	CSL	Marine Terrace	40		Daily Operations
8/2/2022	CSL	Sea Lion Cove		50	Daily Operations
8/2/2022	CSL	Pinniped Colony		200	Daily Operations
8/3/2022	CSL	Marine Terrace	1	45	Daily Operations
8/3/2022	CSL	Marine Terrace		350	Daily Operations
8/5/2022	CSL	Sea Lion Cove		35	Daily Operations
8/5/2022	CSL	Marine Terrace	17	30	Daily Operations
8/5/2022	CSL	Garbage Gulch	40		Daily Operations
8/6/2022	CSL	Pinniped Colony		150	Daily Operations
8/6/2022	CSL	Sea Lion Cove		10	Daily Operations
8/6/2022	CSL	Marine Terrace		70	Daily Operations
8/7/2022	CSL	Marine Terrace		30	Daily Operations
8/7/2022	CSL	Pinniped Colony		150	Daily Operations
8/7/2022	CSL	Marine Terrace		10	Daily Operations
8/7/2022	CSL	Sea Lion Cove		5	Daily Operations
8/8/2022	CSL	Sea Lion Cove		30	Daily Operations
8/8/2022	CSL	Pinniped Colony		120	Daily Operations
8/8/2022	CSL	Marine Terrace		70	Daily Operations
8/8/2022	CSL	Garbage Gulch	16		Daily Operations
8/8/2022	CSL	Marine Terrace		6	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
8/9/2022	CSL	Pinniped Colony		80	Daily Operations
8/9/2022	CSL	Sea Lion Cove		20	Daily Operations
8/9/2022	CSL	Marine Terrace		80	Daily Operations
8/10/2022	CSL	Marine Terrace		50	Daily Operations
8/10/2022	CSL	Marine Terrace		100	Daily Operations
8/11/2022	CSL	Marine Terrace	150		Daily Operations
8/11/2022	CSL	Marine Terrace		1200	Daily Operations
8/11/2022	CSL	Marine Terrace		200	Daily Operations
8/11/2022	CSL	Sea Lion Cove		20	Daily Operations
8/12/2022	CSL	Marine Terrace		700	Daily Operations
8/12/2022	CSL	Marine Terrace		400	Daily Operations
8/13/2022	CSL	Marine Terrace		100	Daily Operations
8/13/2022	CSL	Marine Terrace		120	Daily Operations
8/13/2022	CSL	Marine Terrace		600	Daily Operations
8/13/2022	CSL	Sea Lion Cove		6	Daily Operations
8/13/2022	CSL	Sea Lion Cove		50	Daily Operations
8/13/2022	CSL	Pinniped Colony		100	Daily Operations
8/14/2022	CSL	Marine Terrace		50	Daily Operations
8/14/2022	CSL	Marine Terrace		100	Daily Operations
8/14/2022	CSL	Marine Terrace		100	Daily Operations
8/14/2022	CSL	Marine Terrace		500	Daily Operations
8/14/2022	CSL	Pinniped Colony		300	Daily Operations
8/15/2022	CSL	Marine Terrace		50	Daily Operations
8/15/2022	CSL	Marine Terrace		300	Daily Operations
8/15/2022	CSL	Marine Terrace		300	Daily Operations
8/15/2022	CSL	Sea Lion Cove		100	Daily Operations
8/15/2022	CSL	Pinniped Colony		300	Daily Operations
8/16/2022	CSL	Marine Terrace		50	Daily Operations
8/16/2022	CSL	Sea Lion Cove		50	Daily Operations
8/16/2022	CSL	Pinniped Colony		100	Daily Operations
8/16/2022	CSL	Marine Terrace		400	Daily Operations
8/16/2022	CSL	Marine Terrace		200	Daily Operations
8/17/2022	CSL	Marine Terrace		180	Daily Operations
8/17/2022	CSL	Sea Lion Cove		50	Daily Operations
8/17/2022	CSL	Pinniped Colony		50	Daily Operations
8/17/2022	CSL	Marine Terrace		400	Daily Operations
8/17/2022	CSL	Marine Terrace		200	Daily Operations
8/18/2022	CSL	Garbage Gulch	40		Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
8/18/2022	CSL	Pinniped Colony		200	Daily Operations
8/18/2022	CSL	Sea Lion Cove		200	Daily Operations
8/18/2022	CSL	Marine Terrace		200	Daily Operations
8/18/2022	CSL	Marine Terrace		200	Daily Operations
8/19/2022	CSL	Pinniped Colony		100	Daily Operations
8/19/2022	CSL	Sea Lion Cove		100	Daily Operations
8/19/2022	CSL	Marine Terrace		200	Daily Operations
8/19/2022	CSL	Marine Terrace		200	Daily Operations
8/20/2022	CSL	Pinniped Colony		30	Daily Operations
8/20/2022	CSL	Marine Terrace		200	Daily Operations
8/20/2022	CSL	Marine Terrace		200	Daily Operations
8/21/2022	CSL	Pinniped Colony		50	Daily Operations
8/21/2022	CSL	Sea Lion Cove		100	Daily Operations
8/21/2022	CSL	Marine Terrace		200	Daily Operations
8/21/2022	CSL	Marine Terrace		500	Daily Operations
8/22/2022	CSL	Marine Terrace		60	Daily Operations
8/22/2022	CSL	Pinniped Colony		50	Daily Operations
8/22/2022	CSL	Sea Lion Cove		100	Daily Operations
8/22/2022	CSL	Marine Terrace		300	Daily Operations
8/22/2022	CSL	Marine Terrace		300	Daily Operations
8/23/2022	CSL	Pinniped Colony		50	Daily Operations
8/23/2022	CSL	Sea Lion Cove		50	Daily Operations
8/23/2022	CSL	Marine Terrace		300	Daily Operations
8/23/2022	CSL	Marine Terrace		200	Daily Operations
8/24/2022	CSL	Pinniped Colony	15		Daily Operations
8/24/2022	CSL	Pinniped Colony		100	Daily Operations
8/24/2022	CSL	Sea Lion Cove		50	Daily Operations
8/24/2022	CSL	Marine Terrace		200	Daily Operations
8/24/2022	CSL	Marine Terrace		600	Daily Operations
8/25/2022	CSL	Marine Terrace		100	Daily Operations
8/25/2022	CSL	Pinniped Colony		50	Daily Operations
8/25/2022	CSL	Sea Lion Cove		100	Daily Operations
8/26/2022	CSL	Pinniped Colony		50	Daily Operations
8/26/2022	CSL	Sea Lion Cove		50	Daily Operations
8/26/2022	CSL	Marine Terrace		40	Daily Operations
8/26/2022	CSL	Marine Terrace		500	Daily Operations
8/27/2022	CSL	Pinniped Colony		30	Daily Operations
8/27/2022	CSL	Sea Lion Cove		50	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
8/27/2022	CSL	Marine Terrace		100	Daily Operations
8/27/2022	CSL	Marine Terrace		300	Daily Operations
8/28/2022	CSL	Pinniped Colony		50	Daily Operations
8/28/2022	CSL	Sea Lion Cove		50	Daily Operations
8/28/2022	CSL	Marine Terrace		100	Daily Operations
8/28/2022	CSL	Marine Terrace		300	Daily Operations
8/29/2022	CSL	Pinniped Colony		50	Daily Operations
8/29/2022	CSL	Sea Lion Cove		100	Daily Operations
8/29/2022	CSL	Marine Terrace		100	Daily Operations
8/29/2022	CSL	Marine Terrace		200	Daily Operations
8/30/2022	CSL	Marine Terrace		20	Daily Operations
8/30/2022	CSL	Marine Terrace		30	Daily Operations
8/30/2022	CSL	Pinniped Colony		50	Daily Operations
8/30/2022	CSL	Sea Lion Cove		100	Daily Operations
8/30/2022	CSL	Marine Terrace		200	Daily Operations
8/30/2022	CSL	Marine Terrace		200	Daily Operations
8/31/2022	CSL	Marine Terrace		40	Daily Operations
8/31/2022	CSL	Sea Lion Cove		50	Daily Operations
8/31/2022	CSL	Marine Terrace		100	Daily Operations
9/1/2022	CSL	Pinniped Colony	50		Daily Operations
9/2/2022	CSL	Sea Lion Cove		100	Daily Operations
9/2/2022	CSL	Marine Terrace		50	Daily Operations
9/3/2022	CSL	Sea Lion Cove		100	Daily Operations
9/4/2022	CSL	Sea Lion Cove		60	Daily Operations
9/5/2022	CSL	Marine Terrace		100	Daily Operations
9/8/2022	CSL	Marine Terrace		50	Daily Operations
9/10/2022	CSL	Sea Lion Cove		100	Daily Operations
9/11/2022	CSL	Marine Terrace		4	Daily Operations
9/11/2022	CSL	Marine Terrace		150	Daily Operations
9/13/2022	CSL	Marine Terrace		50	Daily Operations
9/13/2022	CSL	Pinniped Colony	100	200	Daily Operations
9/13/2022	CSL	Pinniped Colony	100	150	Daily Operations
9/13/2022	CSL	West End	50	150	Daily Operations
9/13/2022	CSL	West End		200	Daily Operations
9/13/2022	CSL	Sea Lion Cove		80	Daily Operations
9/18/2022	CSL	Sea Lion Cove		70	Daily Operations
9/19/2022	CSL	Marine Terrace		120	Daily Operations
9/19/2022	CSL	Sea Lion Cove		400	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
9/24/2022	CSL	Sea Lion Cove		50	Daily Operations
9/25/2022	CSL	Marine Terrace		3	Daily Operations
9/25/2022	CSL	Sea Lion Cove		100	Daily Operations
9/26/2022	CSL	Pinniped Colony		7	Daily Operations
9/27/2022	CSL	Marine Terrace		10	Daily Operations
9/27/2022	CSL	Sea Lion Cove		200	Daily Operations
9/28/2022	CSL	Marine Terrace		35	Daily Operations
9/28/2022	CSL	Sea Lion Cove		100	Daily Operations
9/29/2022	CSL	Garbage Gulch	20		Daily Operations
9/29/2022	CSL	Sea Lion Cove		300	Daily Operations
9/30/2022	CSL	Sea Lion Cove		40	Daily Operations
9/30/2022	CSL	Pinniped Colony		20	Daily Operations
10/2/2022	CSL	Pinniped Colony		15	Daily Operations
10/4/2022	CSL	Pinniped Colony		20	Daily Operations
10/4/2022	CSL	Pinniped Colony	3		Daily Operations
10/4/2022	CSL	Pinniped Colony	100	50	Daily Operations
10/4/2022	CSL	Pinniped Colony	300	100	Daily Operations
10/4/2022	CSL	West End	200	300	Daily Operations
10/4/2022	CSL	Sea Lion Cove	10	100	Daily Operations
10/5/2022	CSL	Pinniped Colony		200	Daily Operations
10/5/2022	CSL	Pinniped Colony	100	150	Daily Operations
10/5/2022	CSL	West End	50	300	Daily Operations
10/5/2022	CSL	West End		50	Daily Operations
10/5/2022	CSL	Sea Lion Cove		10	Daily Operations
10/5/2022	CSL	Pinniped Colony		40	Daily Operations
10/6/2022	CSL	Marine Terrace		220	Daily Operations
10/6/2022	CSL	Pinniped Colony	100	100	Daily Operations
10/6/2022	CSL	West End	100	100	Daily Operations
10/6/2022	CSL	Sea Lion Cove		15	Daily Operations
10/7/2022	CSL	Pinniped Colony		25	Daily Operations
10/7/2022	CSL	Pinniped Colony	10	100	Daily Operations
10/7/2022	CSL	Pinniped Colony	20	70	Daily Operations
10/7/2022	CSL	West End	130	15	Daily Operations
10/9/2022	CSL	Sea Lion Cove		1	Daily Operations
10/10/2022	CSL	Pinniped Colony	1		Daily Operations
10/10/2022	CSL	Pinniped Colony	50	100	Daily Operations
10/10/2022	CSL	Marine Terrace		50	Daily Operations
10/11/2022	CSL	Marine Terrace		40	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
10/11/2022	CSL	Pinniped Colony		20	Daily Operations
10/11/2022	CSL	Sea Lion Cove	10	10	Daily Operations
10/12/2022	CSL	Pinniped Colony	60	75	Daily Operations
10/15/2022	CSL	North Landing	15	10	Daily Operations
10/15/2022	CSL	Sea Lion Cove	10	10	Daily Operations
10/16/2022	CSL	Marine Terrace	25	10	Daily Operations
10/16/2022	CSL	Sea Lion Cove	4	3	Daily Operations
10/16/2022	CSL	Pinniped Colony		12	Daily Operations
10/16/2022	CSL	Pinniped Colony	40		Daily Operations
10/17/2022	CSL	North Landing		20	Daily Operations
10/18/2022	CSL	Marine Terrace	35	10	Daily Operations
10/18/2022	CSL	Pinniped Colony	20	3	Daily Operations
10/19/2022	CSL	Marine Terrace		10	Daily Operations
10/19/2022	CSL	Sea Lion Cove		7	Daily Operations
10/19/2022	CSL	North Landing	1		Daily Operations
10/19/2022	CSL	Sea Lion Cove		7	Daily Operations
10/20/2022	CSL	Garbage Gulch	15	10	Daily Operations
10/20/2022	CSL	Marine Terrace	1	1	Daily Operations
10/20/2022	CSL	Pinniped Colony		90	Daily Operations
10/20/2022	CSL	North Landing	5	5	Daily Operations
10/23/2022	CSL	Marine Terrace	20	10	Daily Operations
10/23/2022	CSL	Pinniped Colony		98	Daily Operations
10/25/2022	CSL	Marine Terrace	40		Daily Operations
10/25/2022	CSL	North Landing	15	20	Daily Operations
10/25/2022	CSL	Pinniped Colony		25	Daily Operations
10/25/2022	CSL	Sea Lion Cove		5	Daily Operations
10/25/2022	CSL	Garbage Gulch	5	70	Daily Operations
10/26/2022	CSL	Marine Terrace	1		Daily Operations
10/26/2022	CSL	Pinniped Colony		3	Daily Operations
10/28/2022	CSL	Garbage Gulch	20	30	Daily Operations
10/28/2022	CSL	Pinniped Colony	15		Daily Operations
10/29/2022	CSL	Marine Terrace	1	1	Daily Operations
10/29/2022	CSL	Marine Terrace	50	20	Daily Operations
10/29/2022	CSL	Pinniped Colony		60	Daily Operations
10/29/2022	CSL	Garbage Gulch	50	20	Daily Operations
10/30/2022	CSL	Pinniped Colony		100	Daily Operations
10/31/2022	CSL	Pinniped Colony		100	Daily Operations
10/31/2022	CSL	Garbage Gulch	20	20	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
11/1/2022	CSL	Garbage Gulch		5	Daily Operations
11/1/2022	CSL	North Landing	40		Daily Operations
11/1/2022	CSL	Pinniped Colony		200	Daily Operations
11/2/2022	CSL	Marine Terrace	10		Daily Operations
11/2/2022	CSL	Pinniped Colony		200	Daily Operations
11/3/2022	CSL	Marine Terrace	2		Daily Operations
11/4/2022	CSL	Pinniped Colony		250	Daily Operations
11/5/2022	CSL	Pinniped Colony	50		Daily Operations
11/5/2022	CSL	Pinniped Colony		250	Daily Operations
11/5/2022	CSL	Sea Lion Cove	20	50	Daily Operations
11/6/2022	CSL	Marine Terrace		25	Daily Operations
11/6/2022	CSL	Pinniped Colony		250	Daily Operations
11/7/2022	CSL	Pinniped Colony		350	Daily Operations
11/7/2022	CSL	Sea Lion Cove		50	Daily Operations
11/8/2022	CSL	Garbage Gulch		5	Daily Operations
11/8/2022	CSL	Pinniped Colony		50	Daily Operations
11/9/2022	CSL	Pinniped Colony		30	Daily Operations
11/11/2022	CSL	Pinniped Colony	80		Daily Operations
11/11/2022	CSL	Pinniped Colony		80	Daily Operations
11/11/2022	CSL	West End	100		Daily Operations
11/11/2022	CSL	West End		50	Daily Operations
11/11/2022	CSL	West End		80	Daily Operations
11/11/2022	CSL	West End		15	Daily Operations
11/13/2022	CSL	Pinniped Colony	20		Daily Operations
11/14/2022	CSL	Marine Terrace	20	40	Daily Operations
11/14/2022	CSL	Pinniped Colony		20	Daily Operations
11/16/2022	CSL	Pinniped Colony	30		Daily Operations
11/17/2022	CSL	Marine Terrace	8		Daily Operations
11/17/2022	CSL	Pinniped Colony	12		Daily Operations
11/17/2022	CSL	Sea Lion Cove	3	10	Daily Operations
11/20/2022	CSL	Garbage Gulch	3		Daily Operations
11/20/2022	CSL	Pinniped Colony	1		Daily Operations
11/22/2022	CSL	Sea Lion Cove	30		Daily Operations
11/23/2022	CSL	North Landing	4		Daily Operations
11/23/2022	CSL	Marine Terrace	30		Daily Operations
11/25/2022	CSL	Pinniped Colony	1		Daily Operations
11/25/2022	CSL	Pinniped Colony	5		Daily Operations
11/25/2022	CSL	West End	70	80	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
11/26/2022	CSL	Pinniped Colony	15		Daily Operations
11/26/2022	CSL	West End	40		Daily Operations
11/26/2022	CSL	West End		125	Daily Operations
11/26/2022	CSL	West End		80	Daily Operations
11/27/2022	CSL	Marine Terrace			Daily Operations
11/27/2022	CSL	Sea Lion Cove		20	Daily Operations
11/28/2022	CSL	Sea Lion Cove		10	Daily Operations
11/29/2022	CSL	Pinniped Colony		7	Daily Operations
11/29/2022	CSL	Pinniped Colony	10		Daily Operations
12/2/2022	CSL	Garbage Gulch	5		Daily Operations
12/3/2022	CSL	North Landing	5		Daily Operations
12/4/2022	CSL	North Landing	10		Daily Operations
12/4/2022	CSL	Marine Terrace		1	Daily Operations
12/5/2022	CSL	Pinniped Colony	1		Daily Operations
12/5/2022	CSL	Pinniped Colony		2	Daily Operations
12/5/2022	CSL	Garbage Gulch	1		Daily Operations
12/6/2022	CSL	Pinniped Colony		1	Daily Operations
12/6/2022	CSL	Garbage Gulch	4		Daily Operations
12/6/2022	CSL	Marine Terrace	1		Daily Operations
12/6/2022	CSL	Pinniped Colony	4		Daily Operations
12/6/2022	CSL	Marine Terrace	10		Daily Operations
12/7/2022	CSL	Marine Terrace	1		Daily Operations
12/7/2022	CSL	Pinniped Colony	4		Daily Operations
12/9/2022	CSL	Garbage Gulch	6		Daily Operations
12/10/2022	CSL	North Landing	1		Daily Operations
12/10/2022	CSL	North Landing		10	Daily Operations
12/11/2022	CSL	Pinniped Colony		1	Daily Operations
12/11/2022	CSL	Pinniped Colony	3		Daily Operations
12/12/2022	CSL	Pinniped Colony	25		Daily Operations
12/12/2022	CSL	Garbage Gulch		1	Daily Operations
12/14/2022	CSL	North Landing		3	Daily Operations
12/14/2022	CSL	Garbage Gulch	4		Daily Operations
12/14/2022	CSL	Sea Lion Cove	1		Daily Operations
12/16/2022	CSL	Pinniped Colony		1	Daily Operations
12/16/2022	CSL	Garbage Gulch	2		Daily Operations
12/19/2022	CSL	Sea Lion Cove		5	Daily Operations
12/20/2022	CSL	Pinniped Colony		16	Daily Operations
12/20/2022	CSL	West End	27	20	Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
12/20/2022	CSL	West End	10	5	Daily Operations
12/20/2022	CSL	West End	50	200	Daily Operations
12/22/2022	CSL	West End	8		Daily Operations
12/23/2022	CSL	North Landing	1		Daily Operations
12/23/2022	CSL	North Landing		1	Daily Operations
12/23/2022	CSL	West End	12		Daily Operations
12/24/2022	CSL	West End		1	Daily Operations
12/26/2022	CSL	Pinniped Colony		1	Daily Operations
12/28/2022	CSL	Pinniped Colony	15		Daily Operations
12/28/2022	CSL	Pinniped Colony		5	Daily Operations
12/29/2022	CSL	Pinniped Colony		1	Daily Operations
12/29/2022	CSL	Sea Lion Cove		1	Daily Operations
12/29/2022	CSL	Pinniped Colony		2	Daily Operations
12/30/2022	CSL	Pinniped Colony	1		Daily Operations
12/30/2022	CSL	Pinniped Colony	20		Daily Operations
12/30/2022	CSL	North Landing		3	Daily Operations
12/30/2022	CSL	Pinniped Colony		2	Daily Operations
12/30/2022	CSL	Garbage Gulch	5		Daily Operations
12/31/2022	CSL	Pinniped Colony	10	15	Daily Operations
12/31/2022	CSL	Sea Lion Cove		5	Daily Operations
1/16/2022	SSL	Pinniped Colony		1	Daily Operations
1/25/2022	SSL	Pinniped Colony	1		Daily Operations
2/27/2022	SSL	North Landing	2		Daily Operations
3/18/2022	SSL	Pinniped Colony	2		Daily Operations
3/21/2022	SSL	North Landing	2		Daily Operations
7/24/2022	SSL	Sea Lion Cove		1	Daily Operations
1/3/2022	HS	Pinniped Colony	3		Daily Operations
1/4/2022	HS	Pinniped Colony	1		Daily Operations
1/7/2022	HS	Pinniped Colony	1		Daily Operations
1/8/2022	HS	Pinniped Colony	2		Daily Operations
1/15/2022	HS	Pinniped Colony		1	Daily Operations
1/16/2022	HS	Pinniped Colony	2		Daily Operations
1/19/2022	HS	Pinniped Colony	2		Daily Operations
1/21/2022	HS	Pinniped Colony		1	Daily Operations
1/28/2022	HS	Pinniped Colony	1		Daily Operations
2/3/2022	HS	Pinniped Colony	1	1	Daily Operations
2/6/2022	HS	Pinniped Colony	2	3	Daily Operations
2/13/2022	HS	Pinniped Colony	2		Daily Operations



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
2/16/2022	HS	Sea Pigeon Gulch	1		Daily Operations
2/19/2022	HS	Pinniped Colony	1		Daily Operations
2/21/2022	HS	Pinniped Colony	1		Daily Operations
2/22/2022	HS	Pinniped Colony	1		Daily Operations
1/3/2022	HS	Pinniped Colony	3		Daily Operations
1/4/2022	HS	Pinniped Colony	1		Daily Operations
1/7/2022	HS	Pinniped Colony	1		Daily Operations
1/8/2022	HS	Pinniped Colony	2		Daily Operations
1/15/2022	HS	Pinniped Colony		1	Daily Operations
1/16/2022	HS	Pinniped Colony	2		Daily Operations
1/19/2022	HS	Pinniped Colony	2		Daily Operations
1/21/2022	HS	Pinniped Colony		1	Daily Operations
1/28/2022	HS	Pinniped Colony	1		Daily Operations
2/3/2022	HS	Pinniped Colony	1	1	Daily Operations
2/6/2022	HS	Pinniped Colony	2	3	Daily Operations
2/13/2022	HS	Pinniped Colony	2		Daily Operations
2/16/2022	HS	Sea Pigeon Gulch	1		Daily Operations
2/19/2022	HS	Pinniped Colony	1		Daily Operations
2/21/2022	HS	Pinniped Colony	1		Daily Operations
3/13/2022	HS	Pinniped Colony	1		Daily Operations
3/20/2022	HS	Pinniped Colony	1		Daily Operations
3/21/2022	HS	Garbage Gulch	1		Daily Operations
4/1/2022	HS	Pinniped Colony	2		Daily Operations
4/16/2022	HS	Garbage Gulch	2		Daily Operations
4/27/2022	HS	Garbage Gulch	2		Daily Operations
4/28/2022	HS	Pinniped Colony	1		Daily Operations
6/9/2022	HS	Garbage Gulch	1		Daily Operations
6/16/2022	HS	Garbage Gulch	4		Daily Operations
6/19/2022	HS	North Landing	1		Daily Operations
7/9/2022	HS	Garbage Gulch	1		Daily Operations
9/16/2022	HS	Sea Pigeon Gulch	1		Daily Operations
9/28/2022	HS	Sea Pigeon Gulch	1		Daily Operations
10/4/2022	HS	Pinniped Colony	1		Daily Operations
10/6/2022	HS	Sea Pigeon Gulch	1		Daily Operations
10/7/2022	HS	Sea Pigeon Gulch		1	Daily Operations
10/20/2022	HS	Pinniped Colony	1		Daily Operations
11/1/2022	HS	Pinniped Colony	1		Daily Operations
11/9/2022	HS	Pinniped Colony	1		Daily Operations



Conservation Science for a healthy planet.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move > 1m)	Activity
11/11/2022	HS	Pinniped Colony	4		Daily Operations
11/13/2022	HS	Pinniped Colony		1	Daily Operations
11/14/2022	HS	Garbage Gulch	1		Daily Operations
11/16/2022	HS	Sea Pigeon Gulch	1		Daily Operations
11/16/2022	HS	Pinniped Colony	2		Daily Operations
11/17/2022	HS	Pinniped Colony	6		Daily Operations
12/4/2022	HS	Pinniped Colony	3	2	Daily Operations
12/22/2022	HS	Pinniped Colony	1		Daily Operations
6/8/2022	NES	Garbage Gulch	1		Daily Operations
6/14/2022	NES	Garbage Gulch	1		Daily Operations
11/16/2022	NES	Pinniped Colony	2		Daily Operations

Appendix 2. All Oikonos take by date, species, location, type of take, and activity from Año Nuevo Island 1/1/2022 to 12/31/2022.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (Moved >1 m)	Activity
4/13/2022	NES	landing cove	40		seabird monitoring
4/20/2022	NES	mainland	2		seabird monitoring
4/28-4/29/2022	CSL	landing cove	15		seabird monitoring
4/28-4/29/2022	NES	landing cove	1		seabird monitoring
5/11/2022	CSL	landing cove	30		seabird monitoring
5/11/2022	NES	landing cove	3		seabird monitoring
5/21/2022	CSL	landing cove	25		seabird monitoring
5/25/2022	NES	landing cove	0		seabird monitoring
5/25/2022	CSL	landing cove	15		seabird monitoring
5/27/2022	NES	landing cove	1		seabird monitoring
5/27/2022	CSL	landing cove	15		seabird monitoring
6/1/2022	CSL	landing cove	5		seabird monitoring
6/1/2022	NES	landing cove	1		seabird monitoring
6/8/2022	CSL	landing cove	15		seabird monitoring
6/15-6/16/2022	CSL	landing cove	10		seabird monitoring
6/15-6/16/2022	NES	landing cove	2		seabird monitoring
6/22-6/23/2022	CSL	landing cove	30		seabird monitoring
6/22-6/23/2022	NES	landing cove	2		seabird monitoring
6/29-6/30/2022	CSL	landing cove	15		seabird monitoring
6/29-6/30/2022	NES	landing cove	2		seabird monitoring



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.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (Moved >1 m)	Activity
7/6-7/7/2022	CSL	landing cove	35		seabird monitoring
7/6-7/7/2022	NES	landing cove	3		seabird monitoring
7/20/2022	CSL	landing cove	60		seabird monitoring
7/27/2022	CSL	landing cove	10		seabird monitoring
7/27/2022	NES	landing cove	2		seabird monitoring
8/3/2022	CSL	landing cove	53		seabird monitoring
8/3/2022	NES	landing cove	2		seabird monitoring
8/10/2022	CSL	main beach	55		seabird monitoring
8/10/2022	NES	main beach	1		seabird monitoring
8/17/2022	CSL	main beach	50		seabird monitoring
8/17/2022	NES	main beach	1		seabird monitoring

Appendix 3. All National Parks Service IHA take by date, species, location, type of take, and activity from Point Reyes National Seashore 1/1/2022 to 12/31/2022.

Date	Species	Location	Level 3 take (flushed)	Level 2 take (move >1 m)	Activity
No takes during 2023			0	0	Seabird Survey