

Protected Species Monthly Report: May 2021

**Alaska Department of Transportation & Public Facilities
Ferry Berth Improvements in Tongass Narrows, Alaska**

June 10, 2021

**Submitted to:
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1 INTRODUCTION

1.1 BACKGROUND

The Alaska Department of Transportation & Public Facilities (DOT&PF) is constructing six in-water marine projects in Tongass Narrows, near Ketchikan, to improve access to developable land on Gravina Island, improve access to the Ketchikan International Airport, and facilitate economic development in the Ketchikan Gateway Borough (specifically on Gravina Island). The projects include new airport ferry berths on Revillagigedo (Revilla) and Gravina Islands; refurbishing existing airport ferry berths on Revilla and Gravina Islands; and a new ferry layup and maintenance facility and a new freight facility on Gravina Island.

The projects have been awarded to separate contractors under two contracts:

1) Two ferry berth refurbishment projects, which includes:

- SFHWY00085 Revilla New Ferry Berth & Upland Improvements
- SFHWY00109 New Gravina Island Shuttle Ferry Berth/Related Terminal Improvements
- SFHWY00150 Revilla Refurbish Existing Ferry Berth
- SFHWY00153 Gravina Refurbish Existing Facility

2) Gravina layup and freight facilities, which includes:

- SFHWY00152 Gravina Layup Facility
- SFHWY00154 Gravina Freight Facility

The projects are in waters of the U.S., within the range of the Endangered Species Act (ESA)-listed Mexico distinct population segment of humpback whales and nine Marine Mammal Protection Act (MMPA) - listed marine mammals. The projects are authorized to “take” marine mammals under the MMPA and the ESA under two Incidental Harassment Authorizations (IHAs). A Phase 1 IHA authorizes work on the new Revilla ferry berth (SFHWY00085) and the new Gravina ferry berth (SFHWY00109), layup and maintenance facility (SFHWY00152), and freight facility (SFHWY00154). The Phase 2 IHA authorizes work on the Revilla and Gravina existing ferry facilities’ renovations (SFHWY00150 and SFHWY00153). The projects will be completed under two separate contractors. The Revilla and Gravina Ferry Berths will be completed by Dawson Construction, LLC (Dawson), and the Gravina Layup and Freight Facility will be completed by Pacific Pile & Marine (PPM).

Under the Phase 1 IHA, National Marine Fisheries Service (NMFS) granted Level A and/or B harassment of Steller sea lions (*Eumetopias jubatus*), harbor seals (*Phoca vitulina*), harbor porpoises (*Phocoena phocoena*), Dall’s porpoise (*Phocoenoides dalli*), Pacific white-sided dolphins (*Lagenorhynchus obliquidens*), killer whales (*Orcinus orca*), humpback whales (*Megaptera novaeangliae*), and minke whales (*Balaenoptera acutorostrata*) (Table 1). The takes granted for this project were generated based upon stock assessments completed by NMFS, direct consultation with NMFS, and observations from other projects in the area. Authorized Level A and B take of marine mammals is summarized in Table 1.

Marine mammal takes between October 2020 (when work started) through February 28, 2021 were authorized under an original IHA, which expired. The reissued IHA, effective April 26, 2021, has new authorized take numbers which are reflected here. A summary of authorized takes under the original Phase 1 IHA can be found in previous reports.

Table 1. NMFS Authorized Level A and Level B Take Under Phase 1 IHA Renewal

Species	Authorized Number of Exposures to Level B Harassment	Authorized Number of Exposures to Level A Harassment	Total Authorized Exposures
Steller sea lion	1,800	0	1,800
Harbor seal	765	18	783
Harbor porpoise	109	15	124
Dall's porpoise	317	15	332
Pacific white-sided dolphin	92	0	92
Killer whale	144	0	144
Humpback whale	253	0	253
Minke whale	7	0	7

In-water construction of the Gravina New Ferry Berth under the reissued Phase 1 IHA began on May 4, 2021. This monitoring report is submitted for May 2021 to NMFS to meet the monthly monitoring and reporting requirements required by NMFS under the Phase 1 IHA Renewal.

1.2 PROJECT OVERVIEW AND LOCATION

Construction of the Gravina New Ferry Berth under the Phase 1 IHA was conducted in Tongass Narrows approximately 4.2 kilometers (2.6 miles) north of downtown Ketchikan, Alaska (Latitude: 55° 21' 24.5"N, Longitude: 131° 42' 28.6"W) (Figure 1).

Figure 1. Tongass Narrows Ferry Berth Improvements Project Locations (Source: HDR 2019)



Table 2. NMFS-Assigned Shutdown Zones Under the Phase 1 IHA Renewal

Activity	Pile Size (Inches)	Minutes per pile or Strikes per Pile	Piles Installed or Removed per Day	Level B Harassment Isopleth (m)	Shutdown Distances (m)				
					LF	MF	HF	PW	OW
Vibratory Installation	30	30 min	3	6,310	50				
	24, 18	30 min	3	5,420					
	27.6 sheet pile, 30.3 sheet pile	15 min	10	4,650					
	Vibratory Removal	24, 16	30 min	5					
Drilling Rock Sockets and Tension Anchors	30	180 min	3	12,030	70	50	60	50	
	24, 18	120 min	3		60	50			
Impact Installation	30	50 strikes	3	2,160	250	50	250	150	50
			2		200		200	100	
			1		100		150	100	
		200 strikes	3		550		650	300	
			2		400		500	250	
			1		300		300	150	
	24	50 strikes	3	1,000	150		150	100	
			2		100		150	50	
			1		100		100	50	
		200 strikes	3		300		350	200	
			2		250		300	150	
			1		150		200	100	
	18	50 strikes	3		150		150	100	
			2		100		150	50	
			1		100		100	50	

Table 3. NMFS-Approved Monitoring Zones Under the Phase 1 IHA Renewal

Method and Pile Type	Distance to Level B Harassment Isopleth (meters)
Vibratory Hammer (Level B Harassment Isopleth = 120dB)	
30-inch steel piles	6,400
24-inch steel piles	5,500
18-inch steel piles	5,500
16-inch steel piles	5,500
27.6-inch sheet piles	4,700
30.3-inch sheet piles	4,700
Drilling Rock Sockets and Tension Anchors (Level B Harassment Isopleth = 120 dB)	
All pile types	12,050
Impact Hammer (Level B Harassment Isopleth = 160 dB)	
30-inch steel piles	2,200
24-inch steel piles	1,000
18-inch steel piles	1,000

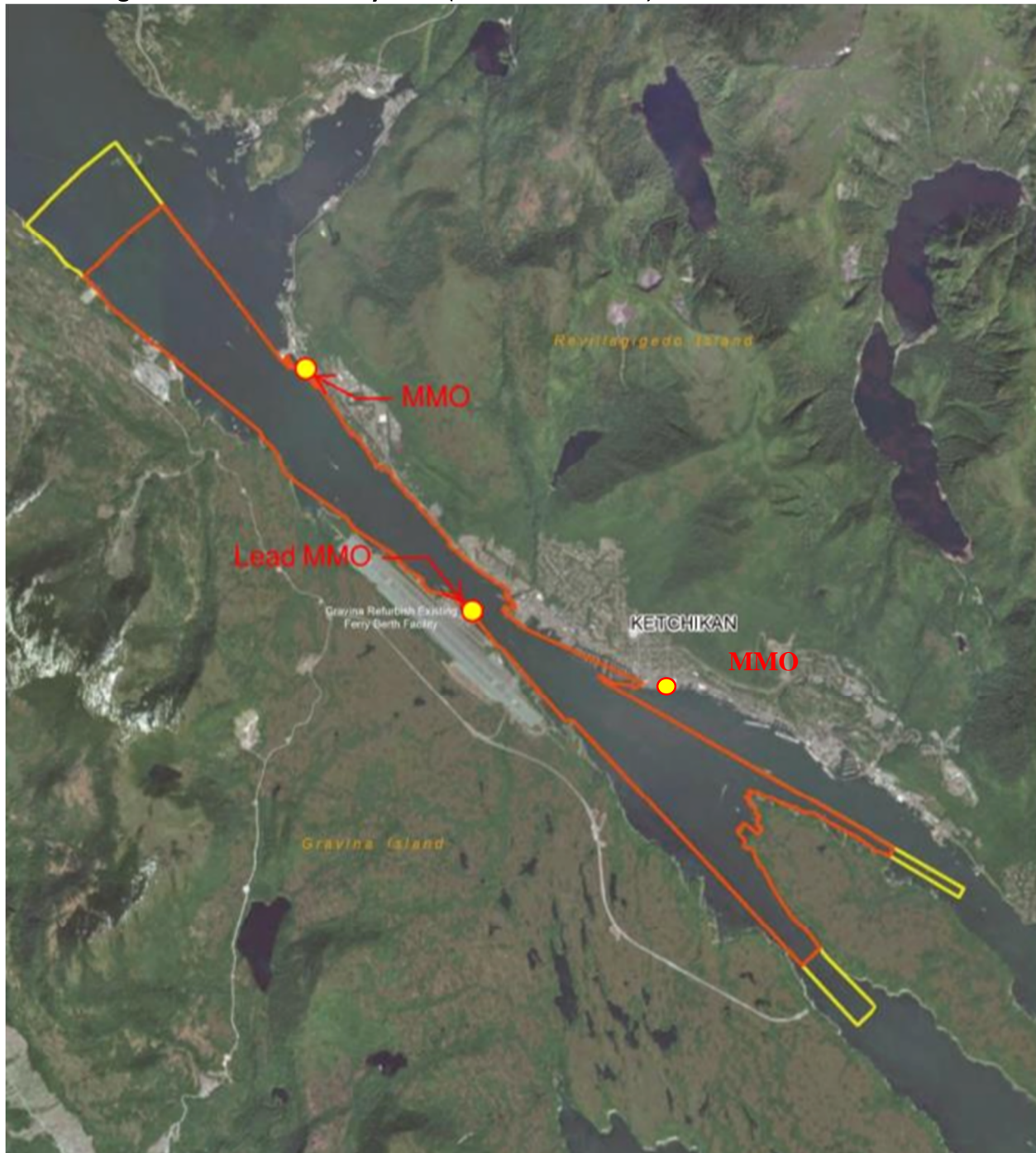
2 MITIGATION AND MONITORING METHODS

The Protected Species Observer (PSO) followed mitigation measures detailed in the Marine Mammal Monitoring and Mitigation Plan (4MP) approved by NMFS, which was updated to reflect the conditions of the IHA issued in April 2021. The monitoring and mitigation protocols were established in order to minimize impacts to marine mammals in the vicinity of the ferry terminal projects. Visual observations allowed for the adherence of the shutdown areas, documentation of take, and collection of data for use in future activities. All data collected by PSOs are located in Attachment A.

2.1 VISUAL MONITORING AND METHODOLOGY

Similar to previous months, three on-site PSOs at three locations scanned for marine mammals, recorded and reported sightings, and implemented mitigation actions (shut downs) in accordance with the 4MP (Figure 2). A 30-minute watch prior to the start of and at the conclusion of in water work, soft start procedures, and a consistent watch during all in water work occurred.

Figure 2. Protected Species Observer Stations' Observation Areas in Relation to the Largest Monitoring Zones for work in May 2021 (Source: HDR 2019)



The PSOs were equipped with a VHF radio, binoculars, a rangefinder, and GPS unit. The head observer also was equipped with a cell phone to communicate with the construction superintendent. If a marine mammal was sighted, the observer would identify and record the species. If the marine mammal appeared to be likely to enter a shutdown area, the superintendent was notified and in water work was halted and delayed until the marine

mammal left the area or 15 minutes (pinnipeds) and 30 minutes (cetaceans) had passed after the last sighting within or near the action area.

The PSOs recorded the following information for each protected species observation:

- Species, date, and time for each sighting event.
- Number of animals per sighting event (adults/juveniles/calves).
- Primary, and if observed, secondary behaviors of the marine mammal.
- Geographic coordinates for the observed animals.
- Time of the most recent pile-driving activity or other project activity prior to sighting.
- Environmental conditions (i.e. sea state, weather conditions, visibility, lighting conditions, etc.).

When a protected species was observed, distance estimates were made using a rangefinder, the naked eye, and by relating the animal's proximity to an object at a known distance. Species and sex were determined, when possible, by observing anatomical features and behaviors. Identifications were confirmed and recorded.

Based upon the location, timeframe, behavior, and tracking movement observers were able to positively determine if an individual was being re-sighted. If an individual was re-sighted, a note was made on the sighting form to ensure that additional takes or sightings were not counted. If it could not be positively determined whether it was the same individual, the individual was counted as a new sighting and an additional take, if appropriate.

3 WORK COMPLETED

Protected species monitoring and mitigation occurred during eighteen days of in-water work during the month of May 2021. A total of twenty-one (21) 24-inch steel permanent piles were completely installed and one (1) 24-inch steel permanent piles was partially installed using the vibratory hammer and impact hammer. To achieve design embedment each pile required multiple methods and periods of installation. Table 4 details the pile size, number, and method (vibratory hammer and impact hammer) on each day.

Table 4. Summary of Pile Driving Activities in May 2021

Date	Construction Method	Pile Size	Pile Type	Quantity
4-May	Vibratory Hammer	24-inch	Permanent	1
5-May	Vibratory Hammer	24-inch	Permanent	1
6-May	Monitoring; no in-water work occurred			
10-May	Vibratory Hammer	24-inch	Permanent	1
11-May	Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	2
12-May	Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	2
13-May	Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3
14-May	Impact Hammer	24-inch	Permanent	2
17-May	Vibratory Hammer (2)/Impact Hammer (3)	24-inch	Permanent	3
18-May	Vibratory Hammer (3)/Impact Hammer (3)	24-inch	Permanent	3
19-May	Vibratory Hammer (3)/Impact Hammer (2)	24-inch	Permanent	3
20-May	Vibratory Hammer (3)/Impact Hammer (3)	24-inch	Permanent	3
21-May	Vibratory Hammer/Impact Hammer	24-inch	Permanent	1
24-May	Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	2
25-May	Vibratory Hammer	24-inch	Permanent	1
26-May	Vibratory Hammer (1)/Impact Hammer (3)	24-inch	Permanent	3
27-May	Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	2
28-May	Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	2

4 ENVIRONMENTAL CONDITIONS

Environmental conditions on the eighteen days of monitoring varied (Table 5). Temperatures were on average between 44°F and 55°F. Visibility was excellent. Weather was partly cloudy and overcast with infrequent periods of rain and sun. Wind was generally moderate with an average speed of 7.6 miles per hour. Water conditions in Tongass Narrow were generally favorable during observation periods with the Beaufort Sea State staying between 0 and 3 (NOAA 2021).

Table 5. Environmental Condition During In-Water Work in May 2021

Date	Average Temperature (*F)	Average Wind Speed (mph)	Visibility	Glare	Weather Condition	Beaufort Sea State
4-May	46	8.3	Excellent	0-5%	S/PC/OC	1
5-May	49	5.1	Excellent	0%	L/OC	0-1
6-May	52	10.4	Excellent	0%	PC/L/OC	1-2
10-May	44	6.5	Excellent	0%	L/OC	1-2
11-May	48	4.2	Excellent	0%	OC	0-1
12-May	52	9.5	Excellent	0-5%	S/PC	1-2
13-May	50	8.1	Excellent	0%	S/OC	1
14-May	48	8.5	Excellent	0%	L/OC	1-2
17-May	49	8.3	Excellent	0-5%	S/PC	1-3
18-May	52	7.2	Excellent	0-5%	S/PC	1-3
19-May	51	8.1	Excellent	0-10%	S/PC	0-2
20-May	51	5.3	Excellent	0%	S/PC	0-2
21-May	50	9.0	Excellent	0%	OC	1-2
24-May	53	6.8	Excellent	0-5%	S/PC	1
25-May	47	10.5	Excellent	0%	PC/R/L/OC	1-2
26-May	48	3.2	Excellent	0%	R/L/OC	0-1
27-May	55	9.1	Excellent	0-5%	S/PC	1-2
28-May	51	8.1	Excellent	0%	L/OC	1-2

S-Sunny, PC-Partly Cloudy, L-Light Rain, R-Rain, OC-Overcast, SN-Snow

5 MONITORING AND DETECTION RESULTS

5.1 VISUAL DETECTION

Marine mammals were observed on seventeen of the eighteen days of monitoring in May 2021. A summary of marine mammal sightings and takes is included below. A detailed log of sightings each day is located in Attachment A. The total number of sightings and takes per species for the month is in Table 6.

Table 6. Total Number of Sightings and Takes Per Species During In-Water Construction in May 2021

Species	Number of Sightings	Total Individuals Sighted	Number of Sightings Resulting in Mitigation	Level B Takes	Level A Takes
Steller Sea Lion	11	12	0	4	0
Harbor Seal	44	50	0	3	0
Humpback Whale	13	9	0	6	0
Killer Whale	3	10	0	10	0

5.2 PINNIPED DETECTION

Steller sea lions

Steller sea lions were sighted on 7 of the 18 days of in-water work. Sightings were of solo individuals and a pair that were identified travelling, swimming, looking, and diving approximately 150 meters to 5,700 meters from work. The 11 sightings of 12 individuals did not result in any Level A takes, and no mitigation measures were taken. Four Level B takes occurred. The age and sex of the individual was unable to be determined. No pups were sighted.

Harbor seals

Fifty seals were sighted on 14 out of 18 days of in-water work. PSOs recorded mostly individuals and pairs; however, a group of three was sighted on May 12, 2021. The harbor seals were observed foraging, resting, swimming, travelling, milling, sinking, and looking and were recorded approximately 250 meters to 3,450 meters from the project site. During the month of May, three harbor seals appeared in the Level B zone while the vibratory hammer or impact hammer was running and resulted in Level B takes. The age and sex of the individual was unable to be determined. No pups were sighted. No mitigation measures were taken in May.

Humpback Whale

On five days in May, PSOs tracked lone individuals and pairs of humpback whales travelling, swimming, diving, chuffing, foraging, milling, and breaching in Tongass Narrows. Sightings were recorded 350 meters to 8,700 meters from in-water work. On May 19, 2021, a mom and calf were positively identified by the Peninsula Point PSO. The age and sex of the other individuals

sighted in May was unable to be determined. No Level A takes occurred, and six Level B takes were recorded. No mitigation measures were taken in May.

Killer Whale

On May 11, 2021, a pair of killer whales were sighted swimming and travelling approximately 1,300 meters to 5,600 meters from in-water work. A second pod of 8 was recorded on May 28, 2021, approximately 800 meters to 6,300 meters from in-water work. The pod was observed for almost an hour travelling, swimming, breaching, porpoising, milling, and slapping. The age and sex of the individuals was generally unable to be determined; however, a member of the pod of 8 was identified as female while breaching. No calves were sighted. In-water work was actively occurring during each sighting; no Level A takes occurred and 10 Level B takes were recorded. No mitigation measures were taken in May.

6 SUMMARY

Four species of marine mammals were positively identified in May: Steller sea lions, harbor seals, humpback whales, and killer whales. Visual monitoring during that time resulted in the sightings of a total of 81 individuals, 0 unauthorized takes, 0 Level A takes, and 23 authorized Level B takes. Table 6 details sightings and takes per species in May 2021. Table 7 summarizes the numbers of current species' take and remaining take for the project through May 2021.

Table 7. Total Number of Takes During In-Water Construction to Date

Species	Level B			Level A		
	Actual	Allowed	Remain	Actual	Allowed	Remain
Steller sea lion	4	1,800	1796	0	0	0
Harbor seal	3	765	762	0	18	18
Harbor porpoise	0	109	109	0	15	15
Dall's porpoise	0	317	317	0	15	15
Pacific white-sided dolphin	0	92	92	0	0	0
Killer whale	10	144	134	0	0	0
Humpback whale	6	253	247	0	0	0
Minke whale	0	7	7	0	0	0
TOTAL	23	3,487	3,464	0	48	48

7 REFERENCES

HDR. 2019. Application for Marine Mammal Protection Act Incidental Harassment

Authorizations: Tongass Narrows Project. Accessible at

<https://www.fisheries.noaa.gov/action/incidental-take-authorization-alaska-department-transportation-ferry-berth-improvements>.

National Oceanic and Atmospheric Administration (NOAA). 2021. National Weather Service:

Ketchikan, Alaska. Accessed from <https://w2.weather.gov/climate/index.php?wfo=pajk> on June 2, 2021.

Attachment A

Date	Start Time	End Time	Total Time	Construction Type	Pile Size	Pile Type	# of Piles	Visibility	Glare	Weather	BSS	Wind/Swell Direction	Monitoring Location	PSO Initials	Construction at Time of Sighting	Species	Time Sighted	Time Left	Group Size	Behavior	Distance from Work	Take?	Resighting?	Mitigation	Notes
5/4/2021	1525	1850		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	S/PC	1	SE	Project Site (Gravina)	DR	NONE	STSL	1714	1724	1	TR(SE)/DI	800m	N	Y	N	Traveling (SE) past the work site during non-construction Activity. Resighting from Peninsula #1.1)
5/4/2021	1525	1850		Vibratory Hammer	24-inch	Permanent	1	Excellent	5%	PC/OC	1	SE	Peninsula	AR	NONE	STSL	1645	1704	1	SW/TR(S)	3,400m-4,000m	N	N	N	Swimming South directly across channel from Peninsula Point closer to gravina shoreline.
5/4/2021	1525	1850		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	PC	1	SE	Safeway	TM	NONE	HSEA	1620	1624	2	LO	2,200m	N	N	N	Not in Zone
5/4/2021	1525	1850		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	PC	1	SE	Safeway	TM	NONE	STSL	1830	1833	1	SW	2,100m	N	N	N	Not in Zone
5/5/2021	1825	2048		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	OC	1	SE	Project Site (Gravina)	DR	NO SIGHTINGS										
5/5/2021	1825	2048		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	U/OC	1	SE	Peninsula	AR	NO SIGHTINGS										
5/5/2021	1825	2048		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	U/OC	0-1	SE	Safeway	TM	NONE	HSEA	2040		1	SW(N)	2,200m	N	N	N	Not in Zone
5/6/2021	1030	1156		NONE				Excellent	0%	PC/OC	1	SE	Project Site (Gravina)	DR	NONE	HPBK	1124	1156	1	TR(N)/FO	400m-1,000m	N	Y	N	Sighting #1 from Safeway PSO. Feeding and moving north.
5/6/2021	1030	1156		NONE				Excellent	0%	U/OC	2	SE	Peninsula	AR	NO SIGHTINGS										
5/6/2021	1030	1156		NONE				Excellent	0%	OC	1	SE	Safeway	TM	HPBK	1050	1122	1	FO/SW(N)	3,000m	N	N	N	Transferred to Gravina PSO	
5/10/2021	955	1201		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	U/OC	1	SE	Project Site (Gravina)	DR	Vibratory Hammer	STSL	1107	1118	1	TR(S)/DI	150m	Y	N	N	Level B take. Travelling south past work site.
5/10/2021	955	1201		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	OC	2	SE	Peninsula	AR	NO SIGHTINGS										
5/10/2021	955	1201		Vibratory Hammer	24-inch	Permanent	1	Excellent	0%	U/OC	1	SE	Safeway	TM	NO SIGHTINGS										
5/11/2021	1020	1303		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	2	Excellent	0%	OC	1	SE	Project Site (Gravina)	DR	NONE	HSEA	1101	1103	1	LO/SI	200m	N	N	N	Hanging around south of the project south prior to start of work.
5/11/2021	1020	1303		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	2	Excellent	0%	OC	0-1	NE/S	Peninsula	AR	NONE	HSEA	1021	1023	1	LO/SI	3,400m	N	N	N	Surfaced two times right off Pen. Point. Did not surface again.
5/11/2021	1020	1303		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	2	Excellent	0%	OC	0-1	NE/S	Peninsula	AR	Vibratory Hammer/Impact Hammer	ORCA	1121	1230	2	SW/TR(S)/TR(N)	1,300m-5,600m	Y	N	N	Swimming south surfacing several times not in B zone during intal sighting. Continued swimming south surfacing 8-10 times and only briefly in B zone from 1132 to 1152. Not in B zone from 1155 to 1208, but then trunks and swims North. From 1210 to 1230 swimming north and resting at surface for 1-2 minutes at a time in B zone while impact hammering.
5/11/2021	1020	1303		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	2	Excellent	0%	OC	1	SE	Safeway	TM	NO SIGHTINGS										
5/12/2021	1040	1357		Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	4	Excellent	0%	S	2	NW	Project Site (Gravina)	DR	NO SIGHTINGS										
5/12/2021	1040	1357		Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	4	Excellent	0-5%	S/PC	2	NE	Peninsula	AR	Impact Hammer	HSEA	1312	1334	1	RE/LO/SI	3,400m	N	N	N	Resting on surface until helicopter flew overhead. Then resurfaced and looked around. Not in B Zone.
5/12/2021	1040	1357		Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	4	Excellent	0%	PC	1	NW	Safeway	TM	NONE	HSEA	1233	1234	3	RE	2,200m	N	N	N	Not in zone
5/12/2021	1040	1357		Vibratory Hammer (2)/Impact Hammer (2)	24-inch	Permanent	4	Excellent	0%	PC	1	NW	Safeway	TM	NONE	HSEA	1351		1	LO	2,200m	N	N	N	Not in zone.
5/13/2021	930	1352		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3	Excellent	0%	OC	1	NW/SE	Project Site (Gravina)	DR	NONE	HSEA	940	944	1	LO/SI	200m	N	N	N	South of Site. Surfaced several times.
5/13/2021	930	1352		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3	Excellent	0%	S/OC	1	NW/SE	Peninsula	AR	NONE	HSEA	1009	1208	2	LO/SI	3,400m	N	N	N	Hanging right off shoreline at Peninsula Point.
5/13/2021	930	1352		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3	Excellent	0%	S/OC	1	NW/SE	Peninsula	AR	Vibratory Hammer	STSL	1208	1227	1	TR(N)/SW	3,000m-5,700m	Y	N	N	Swimming mid-channel heading north during intal sighting. Passed peninsula point to the north on Revilla Side then moved back to mid-channel during vibratory hammering. Left B zone to the north.
5/13/2021	930	1352		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3	Excellent	0%	OC	1	NW	Safeway	TM	NONE	HSEA	1006		1	SW(SE)	2,200m	N	N	N	Not in zone
5/13/2021	930	1352		Vibratory Hammer (1)/Impact Hammer (2)	24-inch	Permanent	3	Excellent	0%	OC	1	NW	Safeway	TM	NONE	HSEA	1021		1	SW(SE)	2,200m	N	N	N	Not in zone
5/14/2021	1155	1457		Impact Hammer	24-inch	Permant	3	Excellent	0%	OC	1-2	SE	Project Site (Gravina)	DR	NONE	HSEA	1314	1320	2	TR(SE)/DI	250m	N	N	N	Sighted prior to work start.
5/14/2021	1155	1457		Impact Hammer	24-inch	Permant	3	Excellent	0%	OC	1	SE	Peninsula	AR	NONE	HSEA	1158		1	LO/SI	3,400m	N	N	N	Surfaced just off Pen Point
5/14/2021	1155	1457		Impact Hammer	24-inch	Permant	3	Excellent	0%	U/OC	1	SE	Safeway	TM	NO SIGHTINGS										
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S	1-2	NW	Project Site (Gravina)	DR	NONE	HSEA	652	657	1	TR(SE)/SI	300m	N	N	N	Moving SE past work site.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S	1-2	NW	Project Site (Gravina)	DR	Impact Hammer	HPBK	1432	1452	2	TR(NW)/DI	400m-1,200m	Y	N	N	Outside of the B zone during the first sighting and impacting pile #2, heading north. Second Sighting 400m-500m from site during 1 minute of impacting; 2 B takes. No change in behavior; passed sighting to Peninsula observer.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S/PC	1-2	NE	Peninsula	AR	NONE	HSEA	626		1	LO/SI	3,400m	N	N	N	
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S/PC	1-2	NE	Peninsula	AR	Vibratory Hammer	HSEA	1334	1409	1	FO/LO/SI	3,400m	Y	N	N	Could see chasing fish, just under surface. Surfaced with fish in mouth.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S/PC	1-2	NE	Peninsula	AR	Impact Hammer	HSEA	1440	1441	1	LO/SI	3,400m	N	N	N	Not in B-zone.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	0%	S/PC	1-2	NE	Peninsula	AR	NONE	HPBK	1456	1508	2	TR(N)	1,500m-3,400	N	Y	N	Same as Project site observer. Mom and calf surfaced on Gravina side. Calf surfaced alone. Mom and calf surfacing 5 times before diving again out of sight.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	5%	S/PC	2-3	NW	Safeway	RV	NONE	HSEA	916	917	1	SW(N)/LO	3,400m	N	N	N	Swimming north few meters. Out of zone near shore.
5/17/2021	625;1315	0850; 1511		Vibratory Hammer(2)/Impact Hammer (3)	24-inch	Permanent	3	Excellent	5%	S/PC	2-3	NW	Safeway	RV	Impact Hammer	HSEA	935	936	1	LO	3,350m	N	N	N	Out of zone. Head pops and looks near shore.
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S/PC	1	NW	Project Site (Gravina)	DR	NONE	HSEA	614	618	1	LO/SI	250m	N	N	N	
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0-5%	S/PC	1-2	NE	Peninsula	AR	NONE	HSEA	1020	1022	1	LO/SI	3,400m	N	N	N	Just off Peninsula Point surfaced several times
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0-5%	S/PC	1-2	NE	Peninsula	AR	Vibratory Hammer	HSEA	1230	1347	1	LO/SI/SW(SI)/FO	3,350m-3,400m	Y	N	N	Right on shoreline southend of Pen Point. Seal has a very distinct mark above left eye. Chasing fish under surface. Surfaced with fish in mouth.
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0-5%	S/PC	1-2	NE	Peninsula	AR	Vibratory Hammer	HSEA	1505	1512	1	RE/LO/SI	3,350m-3,400m	Y	N	N	Right along shore on south end of Pen Point
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0-5%	S/PC	1-2	NE	Peninsula	AR	NONE	STSL	1512	1514	2	MI	5,600m	N	N	N	Swimming just south of Channel Islands
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	5%	S/PC	2-3	NW	Safeway	RV	NONE	HSEA	916	917	1	SW(N)/LO	3,400m	N	N	N	Swimming north few meters. Out of zone near shore.
5/18/2021	555	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	5%	S/PC	2-3	NW	Safeway	RV	Impact Hammer	HSEA	935	950	1	LO	3,350m	N	N	N	Out of zone. Head pops and looks near shore.
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-5%	S	1-2	NW/SE	Project Site (Gravina)	DR	NONE	STSL	640	642	1	TR(NW)/DI	300m	N	N	N	
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-5%	S	1-2	NW/SE	Project Site (Gravina)	DR	NONE	HSEA	717		1	TR(SE)/SI	400m	N	N	N	
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-5%	S	1-2	NW/SE	Project Site (Gravina)	DR	Vibratory Hammer	HPBK	844	911	2	TR(SE)/CH/DI	350m-1,200m	Y	Y	N	Sighting #1.3 from Pen Point Observer. Slowly moving past project site along Revilla shore. 2 HPBK B Takes- safe distance travelling towards southern observer.

Date	Start Time	End Time	Total Time	Construction Type	Pile Size	Pile Type	# of Piles	Visibility	Glare	Weather	BSS	Wind/Swell Direction	Monitoring Location	PSO Initials	Construction at Time of Sighting	Species	Time Sighted	Time Left	Group Size	Behavior	Distance from Work	Take?	Resighting?	Mitigation	Notes
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-5%	S	1-2	NW/SE	Project Site (Gravina)	DR	NONE	HSEA	1352		1	LO/SI	300m	N	N	N	
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-5%	S	1-2	NW/SE	Project Site (Gravina)	DR	Vibratory Hammer	HPBK	1630	1641	1	TR(SE)/DI/CH	500m-1,850m	Y	N	N	1 B Take of lone HPBK. Quickly travelling SE past site on Revilla Shore.
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0-10%	S/PC	0-2	SE	Peninsula Point	AR	NONE	HPBK	817	841	2	TR(S)/SW	1,700m-3,400m	N	N	N	Mom and calf surfaced just north of Pen Point. Surfacing right around red buoy #10 several vessels close by travelling opposite direction. Float plane taking off just south
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0%	S/PC	0-1	NW/SW	Safeway	TM	NONE	HSEA	633		1	SW(NW)	2,200m	N	N	N	
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0%	S/PC	0-1	NW/SW	Safeway	TM	Vibratory Hammer	HPBK	921	1020	2	SW(SE)	2,200m	Y	Y	N	Transferred from barge obs. (Sighting 3.2 from Gravina)
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0%	S/PC	0-1	NW/SW	Safeway	TM	Vibratory Hammer	STSL	1028	1032	1	RE	2,200m	Y	N	N	In B zone
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0%	S/PC	0-1	NW/SW	Safeway	TM	Vibratory Hammer	HSEA	1420		1	SW(NW)	2,200m	N	N	N	Not in B zone
5/19/2021	0625;1350	1118;1810		Vibratory Hammer(3)/Impact Hammer(2)	24-inch	Permanent	3	Excellent	0%	S/PC	0-1	NW/SW	Safeway	TM	Impact Hammer	HPBK	1700	1720	2	SW(SE)/FO	1,800m	N	Y	N	Transferred from barge Obs.
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S	1	SW	Project Site (Gravina)	DR	NONE	HSEA	634	642	1	LO/SI	300m	N	N	N	
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S	1	SW	Project Site (Gravina)	DR	Vibratory Hammer/Impact Hammer	HPBK	913	957	1	FO/DI/TR(NW)	500m-2,000m	Y	Y	N	Sighting #1 from Safeway PSO. Moved past the site fairly quickly hugging the revilla shoreline. No change in behavior.
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S/PC	0-2	SE/N	Peninsula Point	AR	NONE	HSEA	646	700	1	SW(S)/FO/LO/SI	3,400m	N	N	N	viewed swimming and chasing fish under water just off peninsula point
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S/PC	0-2	SE/N	Peninsula Point	AR	NONE	HSEA	833	846	1	RE/SI/LO	3,350m	N	N	N	Resting around the south end of peninsula point
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S/PC	0-2	SE/N	Peninsula Point	AR	NONE	HSEA	848		1	LO/SI	2,500m	N	N	N	Right on Gravina Shoreline
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	S/PC	0-2	SE/N	Peninsula Point	AR	NONE	HPBK	1001	1021	1	SW(N)/MI/TR(N)	1,700m-3,400m	N	N	N	Just of Edgewater breakwater on revilla side. Circled around a few times before heading North again. Surfaced just north of red buoy #10. Swam past Peninsula Point where it headed towards Ward Cove exiting B zone.
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	PC	0-1	SW	Safeway	TM	Vibratory Hammer	HPBK	910	921	1	FO/SW(NW)	2,200m	Y	N	N	Transferred to barge observer.
5/20/2021	625	1206		Vibratory Hammer/Impact Hammer	24-inch	Permanent	3	Excellent	0%	PC	0-1	SW	Safeway	TM	NONE	HSEA	1026		1	LO	2,200m	N	N	N	Not in B zone.
5/21/2021	1220	1545		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0%	OC	1	SE	Project Site (Gravina)	DR	NO SIGHTINGS										
5/21/2021	1220	1545		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0%	OC	1	SE	Peninsula Point	AR	NO SIGHTINGS										
5/21/2021	1220	1545		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0%	OC	1-2	SE	Safeway	TM	NO SIGHTINGS										
5/24/2021	1255	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0%	PC	1	NW/SW	Project Site (Gravina)	DR	Vibratory Hammer	STSL	1500	1501	1	TR(SE)/DI	400m	Y	N	N	1 take
5/24/2021	1255	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0-5%	S/PC	1	NW	Peninsula Point	AR	NONE	HSEA	1311		1	LO/SI	3,400m	N	N	N	Surfaced once right at north end of peninsula point
5/24/2021	1255	1722		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0%	PC	1	NW/SW	Safeway	TM	Vibratory Hammer	HSEA	1609		1	LO	2,150m	N	N	N	Not in zone
5/25/2021	755;1225	1055;1352		Vibratory Hammer	24-inch	Permanent	2	Excellent	0%	R/OC	1-2	SE	Project Site (Gravina)	DR	NO SIGHTINGS										
5/25/2021	755;1225	1055;1352		Vibratory Hammer	24-inch	Permanent	2	Excellent	0%	PC/L/OC	1-2	SE	Peninsula Point	AR	NONE	HPBK	958	1002	1	BR	8,700m	N	N	N	Breached several times
5/25/2021	755;1225	1055;1352		Vibratory Hammer	24-inch	Permanent	2	Excellent	0%	PC/OC	2	SE/SW	Safeway	TM	NO SIGHTINGS										
5/26/2021	0825;1125	1038;1326		Vibratory Hammer (1)/Impact Hammer(3)	24-inch	Permanent	3	Excellent	0%	R/OC	1	SE	Project Site (Gravina)	DR	NONE	STSL	835	838	1	TR(SE)/DI	500m	N	N	N	
5/26/2021	0825;1125	1038;1326		Vibratory Hammer (1)/Impact Hammer(3)	24-inch	Permanent	3	Excellent	0%	L/OC	0-1	SE/NE	Peninsula Point	AR	NONE	HSEA	944	946	2	RE	3,400m	N	N	N	
5/26/2021	0825;1125	1038;1326		Vibratory Hammer (1)/Impact Hammer(3)	24-inch	Permanent	3	Excellent	0%	R/OC	0-1	SE	Safeway	TM	NONE	HSEA	830	851	1	FO/LO	2,180m-2,200m	N	N	N	Not in zone
5/26/2021	0825;1125	1038;1326		Vibratory Hammer (1)/Impact Hammer(3)	24-inch	Permanent	3	Excellent	0%	R/OC	0-1	SE	Safeway	TM	NONE	STSL	1020	1038	1	LO/SW(SE)/SW(NW)	2,200m-2,300m	N	N	N	Not in zone
5/27/2021	1220	1859		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0%	S	1-2	NW	Project Site (Gravina)	DR	NONE	HSEA	1721	1724	1	TR(SE)/LO/SI	500m	N	N	N	
5/27/2021	1220	1859		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0-5%	S/PC	1-2	NW	Peninsula Point	AR	NONE	HSEA	1238	1252	1	SW(N)/LO/SI	3,400m-3,450m	N	N	N	Swam from south end of Peninsula Point to north end. Surfaced again north of Peninsula Point
5/27/2021	1220	1859		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0-5%	S/PC	1-2	NW	Peninsula Point	AR	NONE	HSEA	1318	1320	1	LO/RE/SI	3,400m	N	N	N	
5/27/2021	1220	1859		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0-5%	S/PC	1-2	NW	Peninsula Point	AR	NONE	HSEA	1437	1440	1	RE/MI/SI	3,400m	N	N	N	
5/27/2021	1220	1859		Vibratory Hammer/Impact Hammer	24-inch	Permanent	1	Excellent	0-5%	S/PC	1-2	NW	Peninsula Point	AR	NONE	HSEA	1842	1844	1	LO/SI	3,000m	N	N	N	
5/28/2021	1220	1649		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0%	OC	1-2	SE	Project Site (Gravina)	DR	Impact Hammer	ORCA	1348	1415	8	TR(SE)/TR(NW)	1,100m-1,800m	Y	Y	N	Same sighting as Peninsula Observer. Approached boundary of the B zone during impact driving and turned around. Possibly entered B zone, but doubtful. Will log as a B take to be on the safe side.
5/28/2021	1220	1649		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0%	L/OC	1-2	SE	Peninsula Point	AR	Impact Hammer	ORCA	1301	1432	8	SW(S)/BR/S/PO/MI/SW(N)	800m-6,300m	Y	N	N	Swimming south hugging the reef at Danger Island. Porpoising in circles on Gravina shoreline; tail slap and breach by one female. Project site observer had the better view during impact driving. Left the impact Level B zone and turned around. Tail slapped again as Nat Geo Venture vessel approached.
5/28/2021	1220	1649		Vibratory Hammer/Impact Hammer	24-inch	Permanent	2	Excellent	0%	L/OC	1-2	SE	Peninsula Point	AR	NONE	HSEA	1640	1643	1	LO/RE/SI	3,400m	N	N	N	

[illegible]

Attachment B

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 5-4-2021

Time Effort Initiated: 1525

Time Effort Completed: 1850

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
15:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
18:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	16:20 16:24	DS Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Not in zone
E ON PRE/POST CON S M OR E OFF	2	18:30 18:33	DS Grid N or S W or E	2100m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	SW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/4/21

Time Effort Initiated: 15:25

Time Effort Completed: 18:50

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
15:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
18:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	17:14 17:24	C17 Grid N or S W or E	800m	DL	BL BO BR DF SA OTHER	STSL	Min: Max: Best:	TR(SE) DI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	TR(SE) PAST WORK SITE DURING NON-CONSTRUCTION ACTIVITY.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		(#1.1 FROM PENINSULA OBSERVER)
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Grayina

Monitoring Location: Peninsula

Date: 5/4/21

Time Effort Initiated: 15:25

Time Effort Completed: 18:50

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
15:25	B-P-M-G-E	5 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	/	N S E W	N S E W
18:50	B-P-M-G-E	5 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	/	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	16:45 16:50	C3 Grid N or S W or E	4000	AR	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	SW TR (S)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	1	Swimming South
E ON PRE/POST CON S M OR E OFF	1.1	17:00 17:04	C5 Grid N or S W or E	3400	AR	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	SW TR (S)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	1	Swimming south directly across channel from Pen. Point closer to Grayina shoreline
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Grovina

Monitoring Location: Safeway

Date: 5-5-2021

Time Effort Initiated: 1825

Time Effort Completed: 2048

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
18:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
20:48	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
<u>EN</u> PRE/POST CON S M OR E OFF	1	20:40	<u>D5</u> Grid N or S W or E	2200m	TM	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW (N)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	N	not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1-NEW GRAVANA

Monitoring Location: GRAVANA PROJECT SITE

Date: 5/5/21

Time Effort Initiated: 18:25

Time Effort Completed: 20:48

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
18:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
20:48	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Guinea

Monitoring Location: Peninsula

Date: 5/5/21

Time Effort Initiated: 1825

Time Effort Completed: 2048

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
18:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
20:48	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 6-5-2021

Time Effort Initiated: 1030

Time Effort Completed: 1156

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:56	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	10:50 11:22	D15 Grid N or S W or E	3000m	TM	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	FO SW(N)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Transferred to Gravina Observer
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1-NEW GRAVINA
 Monitoring Location: GRAVINA PROJECT SITE
 Date: 5/6/21
 Time Effort Initiated: 10:30
 Time Effort Completed: 11:56
 Page 1 of

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:56	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	11:24 11:31	Grid N or S W or E	1000m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	TR(N) FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Sighting #1 FROM SAFETY OBS. FEEDING
E ON PRE/POST CON S M OR E OFF	1.1	11:37 11:56	Grid N or S W or E	400m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	TR(N) FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	AND MOVING NORTH
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1- New Gravina

Monitoring Location: Peninsula

Date: 5/6/21

Time Effort Initiated: 10:30

Time Effort Completed: 11:56

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
11:56	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New Grovina

Monitoring Location: Safeway

Date: 5-10-2021

Time Effort Initiated: 0955

Time Effort Completed: 1201

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
09:55	B - P - M - G - E	0%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy	1	N S E W	N S E W
12:01	B - P - M - G - E	0%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy	1	N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/10/21

Time Effort Initiated: 9:55

Time Effort Completed: 12:01

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:01	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	11:07 11:18	C20 Grid N or S W or E	150m	DR	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TIL (S) DI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	B TAKE. TRAVELING SOUTH PAST WORK SITE.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Peninsula

Date: 5/10/21

Time Effort Initiated: 9:55

Time Effort Completed: 12:01

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:55	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
12:01	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Grovina

Monitoring Location: Safeway

Date: 5-11-2021

Time Effort Initiated: 1020

Time Effort Completed: 1307

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:07	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINAMonitoring Location: GRAVINA PROJECT SITEDate: 5/11/21Time Effort Initiated: 10:20Time Effort Completed: 13:03Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:03	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	11:01 11:03	C20 Grid N or S W or E	200m	DR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	HANGING AROUND SOUTH OF SITE PRIOR TO WORK START
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1- New Graving

Monitoring Location: Peninsula

Date: 5/11/21

Time Effort Initiated: 1020

Time Effort Completed: 1303

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:03	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	10:21 10:23	C6 Grid N or S W or E	3400 N	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	10 SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	surfaced 2 times right off Pen Point. Did not surface again
E ON PRE/POST CON S M OR E OFF	2	11:21 11:28	C32 Grid N or S W or E	5600m N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Swimming south surfaced several times Not in B-zone
E ON PRE/POST CON S M OR E OFF	2.1	11:32 11:38	C32 Grid N or S W or E	5400 N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Swimming south surfaced 8 times
E ON PRE/POST CON S M OR E OFF	2.2	11:45 11:52	C5 Grid N or S W or E	3400 N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Swimming south surfaced 8-10 times
E ON PRE/POST CON S M OR E OFF	2.3	11:55 12:08	C16 Grid N or S W or E	1500m -1300m N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Swimming south surfaced 4-5 times Not in B-zone
E ON PRE/POST CON S M OR E OFF	2.4	12:10 12:15	C16 Grid N or S W or E	1500m N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	Turned around swimming North. Resting @ surface each breath for 1-2 min
E ON PRE/POST CON S M OR E OFF	2.5	12:22 12:30	C5-7B Grid N or S W or E	3400- 5000m N	AR	BL BO BR DF SA OTHER	ORCA	Min: 2 Max: 2 Best: 2	SW (S) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Resting @ surface each breath for 1-2 min almost like floating
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1- New Grovina

Monitoring Location: Safeway

Date: 5-12-2021

Time Effort Initiated: 1040

Time Effort Completed: 1357

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:40	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
13:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	12:33 12:34	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 3 Max: 3 Best: 3	RE	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Not in zone
E ON PRE/POST CON S M OR E OFF	2	13:51 :	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/12/21

Time Effort Initiated: 10:40

Time Effort Completed: 13:57

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:40	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
13:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Peninsula

Date: 5/12/21

Time Effort Initiated: 1040

Time Effort Completed: 1357

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
10:40	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
13:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:12 13:16	C6 Grid N or S W or E	3400m N	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	RE LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Resting on surface till helicopter flew over then resurfaced & looked around. Not in B zone.
E ON PRE/POST CON S M OR E OFF	1.1	13:30 13:34	C6 Grid N or S W or E	3400m N	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LG SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Surfaced several times
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 5-13-2021

Time Effort Initiated: 0930

Time Effort Completed: 1352

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
09:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1	10:06	<u>D5</u> Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(SE)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2	10:21	<u>D5</u> Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(SE)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/13/21

Time Effort Initiated: 9:30

Time Effort Completed: 1352

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	9:40 9:44	CZ Grid N or S W or E	200m	DR	BL BO BR DF SA OTHER	HSEA	Min: Max: Best:	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	SOUTH OF SITE SURFACED SEVERAL TIMES.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase I-New Graving

Monitoring Location: Peninsula

Date: 5/13/21

Time Effort Initiated: 9:30

Time Effort Completed: 13:52

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
9:30	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1	10:09 10:12	<u>C-6</u> Grid N or S W or E	3400m n	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	LO SI	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Hanging right off shoreline @ Pen Point
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.1	11:58 11:05	<u>C-6</u> Grid N or S W or E	3400m n	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	LO SI	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Hanging right off shoreline @ Pen Point
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.2	12:05 12:08	<u>C-6</u> Grid N or S W or E	3400m n	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	LO SI	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Hanging right off shoreline @ Pen Point
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2	12:08 12:10	<u>C-7</u> Grid N or S W or E	3000m n	AR	BL <u>BO</u> BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TR sw (n)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Swimming mid-channel heading North
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2.1	12:12 12:14	<u>C-6</u> Grid N or S W or E	3400m n	AR	BL <u>BO</u> BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TR sw (n)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Swimming just North of Pen Point Revilla side
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2.3	12:19 12:21	<u>B-40</u> Grid N or S W or E	4500m n	AR	BL <u>BO</u> BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TR sw (n)	SSV SSI <u>V</u> DR I DP ST OWC NOWC/ NONE	SS/BC DE SD <u>None</u>	y	Swimming mid-channel heading North
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2.4	12:25 12:27	<u>B-27</u> Grid N or S W or E	5700m n	AR	BL <u>BO</u> BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TR sw (n)	SSV SSI <u>V</u> DR I DP ST OWC NOWC/ NONE	SS/BC DE SD <u>None</u>	y	Left B-zone headed North
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Safeway

Date: 5-14-2021

Time Effort Initiated: 1155

Time Effort Completed: 1457

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
11:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
14:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE I - NEW GRANINA

Monitoring Location: GRANINA PROJECT SITE

Date: 5/14/21

Time Effort Initiated: 11:55

Time Effort Completed: 1557

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
11:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
14:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:14 13:20	C20 Grid N or S W or E	250	DR	BL BO BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	TR(SE) DI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	PRIOR TO WORK START.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Peninsula

Date: 5/14/21

Time Effort Initiated: 11:55

Time Effort Completed: 1457

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
11:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
14:57	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	11:58	CG Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Surfaced just off PenPoint
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase I - New Gravina

Monitoring Location: Safeway

Date: 5-17-2021

Time Effort Initiated: 0625

Time Effort Completed: 1511

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
06:25	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
08:50	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:15	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:11	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:35 13:54	D5 Grid N or S W or E	2300m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Hauled out on buoy "WR6"
E ON PRE/POST CON S M OR E OFF	1.1	13:54 :	D5 Grid N or S W or E	2300m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	EW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	Entered water
E ON PRE/POST CON S M OR E OFF	2	14:22 14:29	D5 Grid N or S W or E	2300m	TM	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 2 Best: 2	SW(NW) BR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	14:54 :	D5 Grid N or S W or E	2300m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	RE LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1- NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/17/21

Time Effort Initiated: 6:25

Time Effort Completed: 15:11

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
8:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:15	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
15:11	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	6:52 6:57	C20 Grid N or S W or E	300m	DR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	TR(SE) SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	MOVING SE PAST WORK SITE.
E ON PRE/POST CON S M OR E OFF	2	14:32 14:37	D4 Grid N or S W or E	1200m	DR	BL BO BR DF SA OTHER	HPRK	Min: 2 Max: 2 Best: 2	TR(NW) DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	STILL OUTSIDE OF B ZONE DURING IMPACT OF PILING #2. HEADING NORTH.
E ON PRE/POST CON S M OR E OFF	2.1	14:39 14:47	C22/C20 Grid N or S W or E	400m	DR	BL BO BR DF SA OTHER	HPRK	Min: 2 Max: 2 Best: 2	TR(NW) DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	(2) B TAKES. 400-500m FROM SITE DURING LAST
E ON PRE/POST CON S M OR E OFF	2.2	14:49 14:52	C17 Grid N or S W or E	1000m	DR	BL BO BR DF SA OTHER	HPRK	Min: 2 Max: 2 Best: 2	TR(NW) DI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	1 MINUTE OF IMPACT WORK, ON PILING #3.
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		NO CHANGE IN BEHAVIOR, PASSED SIGHTING TO PENINSULA
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		OBSERVER -
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Peninsula

Date: 5/17/2021

Time Effort Initiated: 6:25 / 13:15

Time Effort Completed: 8:50 / 15:11

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
8:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
13:15	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
15:11	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1	6:26	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2	13:34 13:36	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	FO LO SI	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	Could see chasing fish, just under surface. Surfaced with a fish in mouth
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2.1	13:47 13:52	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	2.2	14:06 14:09	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	3	14:40 14:41	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	North of Pen Point Not in B-zone
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	4	14:56	<u>CG</u> Grid N or S W or E	1500m N	AR	BL <u>BO</u> BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (n)	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Mom + Calf surfaced on Graving side
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	4.1	14:59 15:03	<u>CG</u> Grid N or S W or E	2300m- 3000m N	AR	BL <u>BO</u> BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR(n)	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Calf surfaced several times alone
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	4.2	15:06 15:50	<u>CG</u> Grid N or S W or E	3400m N	AR	BL <u>BO</u> BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR(n)	SSV SSI V DR 1 DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Mom + calf surfacing 5 times then diving

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1-New Gravina

Monitoring Location: Safeway

Date: 05/18/2021

Time Effort Initiated: 05:55

Time Effort Completed: 17:22

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
05:55	B-P-M-G-E	5 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
17:22	B-P-M-G-E	5 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	3	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	09:16 09:17	DS Grid N or S W or E	3400	RV	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(N) LO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Swimming north few meters. Near out of Zone. shore
E ON PRE/POST CON S M OR E OFF	2.1	09:35 09:36	DS Grid N or S W or E	3350	RV	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Out of Zone Head pops and look near shore
E ON PRE/POST CON S M OR E OFF	2.2	09:49 09:50	DS Grid N or S W or E	3350	RV	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Out of Zone Head pops and look Near shore
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1 NEW GRAMA

Monitoring Location: GRAMA PROJECT SITE

Date: 5/18/21

Time Effort Initiated: 5:55

Time Effort Completed: 1722

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
5:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
17:22	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	6:14 6:18	12 Grid N or S W or E	250m	DL	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1-New Renville

Monitoring Location: Peninsula

Date: 5/18/21

Time Effort Initiated: 5:55

Time Effort Completed: 17:22

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
5:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:05	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
17:22	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	10:20 10:22	C-6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Just off Pen point surfaced several times
E ON PRE/POST CON S M OR E OFF	2	12:30 12:38	C-6 Grid N or S W or E	3350 n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Right on shoreline south end of Pen Point
E ON PRE/POST CON S M OR E OFF	2.1	12:58 13:00	C-6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	y	2-2.2 had a very distinct mark above left eye
E ON PRE/POST CON S M OR E OFF	2.2	13:41 13:47	C-6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	FO SW(S) LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Was chasing fish just below surface, surfaced with fish in mouth.
E ON PRE/POST CON S M OR E OFF	3	15:05 15:08	C-6 Grid N or S W or E	3350m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	RE LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	y	Right along shore on south end of Pen Point
E ON PRE/POST CON S M OR E OFF	3.1	15:11 15:12	C-6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	4	15:12 15:14	B-32 Grid N or S W or E	5600m n	AR	BL BO BR DF SA OTHER	STSL	Min: 2 Max: 2 Best: 2	MI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Swimming just south of Channel Islands
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 5-19-2021

Time Effort Initiated: 0625

Time Effort Completed: 1810

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
06:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	N S E W	N S E W
13:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
18:10	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	06:33	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	09:21 10:20	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 2 Best: 2	SW(SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	Transferred from barge obs. (SIGHTING 3.2 FROM GRAVINA)
E ON PRE/POST CON S M OR E OFF	3	10:28 10:32	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	RE	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	In B zone
E ON PRE/POST CON S M OR E OFF	4	14:20	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF	5	17:00 17:21	D4 Grid N or S W or E	1800 m	TM	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	SW(SE) FO	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	Transferred from barge obs.
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRANNA

Monitoring Location: GRANNA PROJECT SITE

Date: 5/19/21

Time Effort Initiated: 6:25 / 13:50

Time Effort Completed: 11:18 / 1810

Page 1 of

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:18	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:10	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	6:40 6:42	C21 Grid N or S W or E	300m	DR	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TR(NW) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	7:17 :	C21 Grid N or S W or E	400m	DR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	TR(SE) S1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	3	8:44 8:50	C17 Grid N or S W or E	500m	DR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR(SE) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	SIGHTING #1.3 FROM PENINSULA OBSERVER SLOWLY MOVING
E ON PRE/POST CON S M OR E OFF	3.1	8:56 9:01	C20 Grid N or S W or E	350m	DR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR(SE) CH	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	PAST PROJECT SITE ALONG REVILLA SHORE.
E ON PRE/POST CON S M OR E OFF	3.2	9:05 9:11	D4 Grid N or S W or E	1200m	DR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR(SE) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	(2) HPBK B TAKES. SAFE DISTANCE.
E ON PRE/POST CON S M OR E OFF	4	13:52 :	C21 Grid N or S W or E	300m	DR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO S1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	TRAVELING TOWARD SOUTHERN OBSERVER
E ON PRE/POST CON S M OR E OFF	5	16:30 16:34	C13 Grid N or S W or E	1800m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	TR(SE) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	(1) B TAKE NONE HPBK.
E ON PRE/POST CON S M OR E OFF	5.1	16:39 16:41	C22 Grid N or S W or E	500m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	CH TR(SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	QUICKLY TR(SE) PAST SITE ON REVILLA SHORE.

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1- New Graving

Monitoring Location: Peninsula

Date: 5/18/2021

Time Effort Initiated: 6:25 / 13:50

Time Effort Completed: 11:18 / 18:10

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	N S E W	N S E W
11:18	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
13:50	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
18:10	B-P-M-G-E	10%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	8:17 8:23	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (s) SW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Mom + Calf surfaced just North of Pen Point
E ON PRE/POST CON S M OR E OFF	1.1	8:25 8:27	C7 Grid N or S W or E	3000m n	AR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (s) SW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	1.2	8:29 8:36	C11 Grid N or S W or E	2200m n	AR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (s) SW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Surfacing right around Red Bayou "10" several vessels close by, traveling opposite direction. Float plane taking off just South
E ON PRE/POST CON S M OR E OFF	1.3	8:39 8:41	C11 Grid N or S W or E	1700m n	AR	BL BO BR DF SA OTHER	HPBK	Min: 2 Max: 2 Best: 2	TR (s) SW	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	Surfaced inside Edgewater Breakwater on Reulla shoreline
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Grovina

Monitoring Location: Safeway

Date: 5-20-2021

Time Effort Initiated: 0625

Time Effort Completed: 1206

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
06:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
12:06	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	09:10 09:21	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	FO SW(NW)	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	Transferred to barge obs.
E ON PRE/POST CON S M OR E OFF	2	10:26 :	D5 Grid N or S W or E	2200 m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1- NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/29/21

Time Effort Initiated: 6:25

Time Effort Completed: 17:06

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:06	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	6:34 6:42	D22 Grid N or S W or E	300m	DR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO S1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF	2	9:13 9:23	D5 Grid N or S W or E	2000m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	FO D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	SIGHTING # 1 FROM SAFEGWAY OBS.
E ON PRE/POST CON S M OR E OFF	2.1	9:35 9:45	C22 Grid N or S W or E	500m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	TR(NW) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	MOVED PAST THE SITE EARLY QUICKLY AUG606
E ON PRE/POST CON S M OR E OFF	2.2	9:49 9:57	C15 Grid N or S W or E	1200m	DR	BL BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	TR(NW) D1	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	THE REVILLA SHORELINE. NO CHANGE IN BEHAVIOR.
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1- New Graving

Monitoring Location: Peninsula

Date: 5/20/21

Time Effort Initiated: 6:25

Time Effort Completed: 12:06

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
6:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	N S E W	N S E W
12:06	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	6:46 6:48	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(S) FO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Viewed swimming & chasing fish under water just off Penn Point
E ON PRE/POST CON S M OR E OFF	1.1	6:51 7:00	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	2	8:33 8:37	C6 Grid N or S W or E	3350m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	RE SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Resting around south end of Pen Point
E ON PRE/POST CON S M OR E OFF	2.1	8:44 8:46	C6 Grid N or S W or E	3350m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	3	8:48 :	C9 Grid N or S W or E	2500m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Right on Glavina shoreline
E ON PRE/POST CON S M OR E OFF	4	10:01 10:05	C11 Grid N or S W or E	1700m n	AR	BL BO BR DF SA OTHER	HBPk	Min: 1 Max: 1 Best: 1	SW(n) MI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Just off Edgewater breakwater on Revilla side Circled around a few times before heading N again
E ON PRE/POST CON S M OR E OFF	4.1	10:10 10:12	C11 Grid N or S W or E	2200m n	AR	BL BO BR DF SA OTHER	HBPk	Min: 1 Max: 1 Best: 1	SW(n) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Surfaced just N of Red Buoy "10"
E ON PRE/POST CON S M OR E OFF	4.2	10:16 10:21	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HBPk	Min: 1 Max: 1 Best: 1	SW(n) TR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Swam past Pen Point where it headed towards Ward cove exiting B-zone

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Grading

Monitoring Location: Safeway

Date: 5-21-2021

Time Effort Initiated: 1220

Time Effort Completed: 1545

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
15:45	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1-NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/21/21

Time Effort Initiated: 12:20

Time Effort Completed: 15:45

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:45	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1-New Revilla

Monitoring Location: Peninsula

Date: 5/21/21

Time Effort Initiated: 12:20

Time Effort Completed: 15:45

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	8%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
15:45	B-P-M-G-E	8%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Safeway

Date: 5-24-2021

Time Effort Initiated: 1255

Time Effort Completed: 1722

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
17:22	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	16:09	D5 Grid N or S W or E	2150m TM		BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1-NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/24/21

Time Effort Initiated: 12:55

Time Effort Completed: 17:22

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:55	B-P-M-G-E	8%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
17:22	B-P-M-G-E	8%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	15:09 15:01	C21 Grid N or S W or E	400m	DR	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TL(LE) D1	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	Y	(1) STSL B TAKE.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1-New Revilla

Monitoring Location: Peninsula

Date: 5/24/21

Time Effort Initiated: 12:55

Time Effort Completed: 17:22

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
17:22	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:11	C6 Grid N or S W or E	3400m	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		surfaced once right at North end of Pen Point.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New GravingMonitoring Location: SafewayDate: 5-25-2021Time Effort Initiated: 0755 * BREAK FROMTime Effort Completed: 1352 10:55 → 12:25Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
07:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: PHASE 1-NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/25/21

Time Effort Initiated: 7:55 | 12:25

Time Effort Completed: 10:55 | 13:52

Page _____ of _____

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
7:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	(Lt)Mod/Hvy	1	NSEW	NSEW
10:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	(Lt)Mod/Hvy	1	NSEW	NSEW
12:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	(Lt)Mod/Hvy	1	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	(Lt)Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Peninsula

Date: 5/25/21

Time Effort Initiated: 7:55 / 12:25

Time Effort Completed: 10:55 / 13:52

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
7:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
10:55	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
12:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:52	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	9:58 10:02	B2 Grid N or S W or E	8700m r	AR	BD BO BR DF SA OTHER	HPBK	Min: 1 Max: 1 Best: 1	BR	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		Breached several times.
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1-New Grayina

Monitoring Location: Safeway

Date: 5-26-2021

Time Effort Initiated: 0825/1125

Time Effort Completed: 1038/1326

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
08:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
10:38	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
13:26	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	08:30	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	F0 L0	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF	1.1	08:51	D5 Grid N or S W or E	2180m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	F0 L0	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF	2	10:20	D9 Grid N or S W or E	2300m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	L0 SW(SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF	2.1	10:38	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	SW(NW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/26/21

Time Effort Initiated: 8:25 / 11:25

Time Effort Completed: 12:38 / 13:26

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
8:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
10:38	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
13:26	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	8:35 8:38	222 Grid N or S W or E	500m	DL	BL BO BR DF SA OTHER	STSL	Min: 1 Max: 1 Best: 1	TRISE DI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1-New Graving

Monitoring Location: Peninsula

Date: 5/26

Time Effort Initiated: 8:25/11:25

Time Effort Completed: 10:38/13:26

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
8:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
10:38	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
11:25	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	0	NSEW	NSEW
13:26	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	9:44 9:46	CG Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	RE	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	1.1	9:48 9:50	CG Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 2 Max: 2 Best: 2	RE	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 5-27-2021

Time Effort Initiated: 1220

Time Effort Completed: 1859

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
18:59	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	18:11	D5 Grid N or S W or E	2200m	TM	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	not in zone
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/27/21

Time Effort Initiated: 12:20

Time Effort Completed: 18:59

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Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
18:59	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	17:21 17:24	C22 Grid N or S W or E	500m	DL	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	TR(SE) L ₀ S ₁	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	N	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New Graving

Monitoring Location: Peninsula

Date: 5/27/21

Time Effort Initiated: 12:20

Time Effort Completed: 18:59

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
18:59	B-P-M-G-E	5%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	12:38 12:42	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	SW(N) LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Swam from south end of Pen Point to North end
E ON PRE/POST CON S M OR E OFF	1.1	12:48 12:52	C6 Grid N or S W or E	3450m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	Surfaced North of Pen Point
E ON PRE/POST CON S M OR E OFF	2	13:18 13:20	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO RE SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	3	14:37 14:40	C6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	RE MI SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	4	18:42 18:44	C8 Grid N or S W or E	3000m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO SI	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL OBSERVATION RECORD

Project Name: Phase 1 - New Gravina

Monitoring Location: Safeway

Date: 5-28-2021

Time Effort Initiated: 1220

Time Effort Completed: 1649

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	N S E W	N S E W
16:49	B-P-M-G-E	0 %	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re- sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF		:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: PHASE 1 - NEW GRAVINA

Monitoring Location: GRAVINA PROJECT SITE

Date: 5/28/21

Time Effort Initiated: 12:20

Time Effort Completed: 16:44

Page 1 of 1

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:44	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1	13:48 14:00	C17 Grid N or S W or E	1100m	DR	BL BO BR DF SA OTHER	ORCA	Min: 6 Max: 8 Best: 8	TR(SE)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	Y	SAME SIGHTINGS AS PENINSULA OBSERVER.
E ON PRE/POST CON S M OR E OFF	1.1	14:01 14:15	C13 Grid N or S W or E	1800m	DR	BL BO BR DF SA OTHER	ORCA	Min: 6 Max: 8 Best: 8	TR(MW)	SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None	N	APPROACHED BOUNDARY OF B ZONE DURING IMPACT AND
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		TURNUED AROUND, POSSIBLY ENTERED B ZONE, BUT
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		DOUBTFUL. WILL LOG AS B TAKE JUST TO BE SAFE.
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC/ NONE	SS/BC DE SD None		

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase I - New GravinaMonitoring Location: PeninsulaDate: 5/28/21Time Effort Initiated: 12:20Time Effort Completed: 16:49Page 1 of 2

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
12:20	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	1	NSEW	NSEW
16:49	B-P-M-G-E	0%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy	2	NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW
:	B-P-M-G-E	%	S-PC-L-R-F-OC-SN-HR	Lt/Mod/Hvy		NSEW	NSEW

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1	13:01 13:03	<u>B-23</u> Grid N or <u>S</u> W or E	6300m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.1	13:06 13:10	<u>B-23</u> Grid N or <u>S</u> W or E	6000m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Swimming south hugging reef @ Danger island
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.2	13:20 13:23	<u>B-31</u> Grid N or <u>S</u> W or E	5,400m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.3	13:37 13:45	<u>C-17</u> Grid N or <u>S</u> W or E	3400- 3000m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s) BR SL PO	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Porpoising in circles on Gravina shoreline Tail slaps + breach by 1 female
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.4	13:49 13:51	<u>C-11</u> Grid N or <u>S</u> W or E	2200m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s)	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.5	14:00 14:03	<u>C-19</u> Grid N or S W or E	800m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(s) ME	SSV SSI V DR <u>I</u> DP ST OWC NOWC/ NONE	SS/BC DE SD None	y	Airport observer had best view
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.6	14:05 14:10	<u>C-16</u> Grid N or S W or E	1200m -1500m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(n)	SSV SSI V DR <u>I</u> DP ST OWC NOWC/ NONE	SS/BC DE SD <u>None</u>	n	Left Impact B-zone Turned around
<u>E ON</u> PRE/POST CON <u>S</u> M OR E OFF	1.7	14:13 14:15	<u>C-8</u> Grid N or S W or E	3000m n	AR	<u>BL</u> <u>BO</u> <u>BR</u> <u>DF</u> SA OTHER	ORCA	Min: 8 Max: 8 Best: 8	SW(n) SL	SSV SSI V DR I DP ST OWC NOWC/ <u>NONE</u>	SS/BC DE SD <u>None</u>	n	Tail slaps as Nat. Geo ship Venture approached

MARINE MAMMAL

OBSERVATION RECORD

Project Name: Phase 1 - New GravingMonitoring Location: PeninsulaDate: 5/28/21Time Effort Initiated: 12:20Time Effort Completed: 16:49Page 2 of 2

Time	Visibility	Glare	Weather Condition	Wave Height	BSS	Wind	Swell
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W
:	B - P - M - G - E	%	S - PC - L - R - F - OC - SN - HR	Lt/Mod/Hvy		N S E W	N S E W

Event Code	Sight # (1 or 1.1 if re-sight)	Time/Dur (Start/End time if cont.)	WP/ Grid #/ DIR of travel	Distance from work	Obs.	Sighting Cue	Species	Group Size	Behavior Code (see code sheet)	Construction Type	Mitigation Type	Exposure (Y/N)	Behavior Change/ Response to Activity/Comments/Human Activity/Vessel Hull # or Name/ Visibility Notes
E ON PRE/POST CON S M OR E OFF	1.8	14:26 14:22	C-5 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	GRCA	Min: 8 Max: 9 Best: 8	SW(n) SL	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	Tail slaps
E ON PRE/POST CON S M OR E OFF	1.9	14:28 14:32	C-3 Grid N or S W or E	3900m n	AR	BL BO BR DF SA OTHER	GRCA	Min: 8 Max: 8 Best: 8	SW(n) SL	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	y	Tail slaps
E ON PRE/POST CON S M OR E OFF	2	16:40 16:43	C-6 Grid N or S W or E	3400m n	AR	BL BO BR DF SA OTHER	HSEA	Min: 1 Max: 1 Best: 1	LO RE SI	SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None	n	
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		
E ON PRE/POST CON S M OR E OFF	:	:	Grid N or S W or E			BL BO BR DF SA OTHER		Min: Max: Best:		SSV SSI V DR I DP ST OWC NOWC / NONE	SS/BC DE SD None		

Attachment C

Protected Species Observers: David Reynolds (Lead)
Ashley Ruiz
Rikki Klein
Tristan Moyer