

Project name: EM&A for Permanent Aviation Fuel Facility (PAFF)

Activity: Dolphin Impact Monitoring

*Remark: Record the number of dolphin occurrences within the 500m exclusion zone
(A) prior to/ outside dredging times and (B) during dredging OR (C) outside the exculsion zone

Week	Date	Derrick Lighters #38		Derrick Lighters #83		Grab dredger		Observer's Name
		No. of Dolphin Occurrence*	Sighting Sheet No.	No. of Dolphin Occurrence*	Sighting Sheet No.	No. of Dolphin Occurrence*	Sighting Sheet No.	
1	Fri 13-Nov	0	-	Not in operation		Not in operation		Alvin Lee
	Sat 14-Nov	0	-	0	0	Not in operation		Richard Huang
	Sun 15-Nov	0	-	0	0	Not in operation		Richard Huang
2	Mon 16-Nov	0	-	2 (C)	1-2	Not in operation		Alvin Lee
	Tue 17-Nov	0	-	Not in operation		0	-	Richard Huang
	Wed 18-Nov	0	0	Not in operation		Not in operation		Francesca Zino
	Thu 19-Nov	1 (C)	4	Not in operation		0	-	Richard Huang
	Fri 20-Nov	0	-	Not in operation		0	-	Alvin Lee
	Sat 21-Nov	0	-	Not in operation		0	-	Richard Huang
	Sun 22-Nov	0	-	Not in operation		0	-	Alvin Lee
3	Mon 23-Nov	Not in operation		Not in operation		0	-	Alvin Lee
	Tue 24-Nov	0	-	Not in operation		0	-	Richard Huang
	Wed 25-Nov	1 (C)	5	Not in operation		0	-	Alvin Lee
	Thu 26-Nov	0	-	Not in operation		0	-	Anson Chow
	Fri 27-Nov	0	-	Not in operation		0	-	Alvin Lee
	Sat 28-Nov	0	-	Not in operation		0	-	Richard Huang
	Sun 29-Nov	0	-	Not in operation		0	-	Alvin Lee
4	Mon 30-Nov	0	-	Not in operation		0	-	Anson Chow
	Tue 1-Dec	Not in operation		Not in operation		Not in operation [1 (A)] [†]		Richard Huang
	Wed 2-Dec	Not in operation		Not in operation		1 (A)	6	Anson Chow
	Thu 3-Dec	Not in operation		Not in operation		0	-	Richard Huang
	Fri 4-Dec	Not in operation		Not in operation		0	-	Anson Chow
	Sat 5-Dec	Not in operation		Not in operation		0	-	Richard Huang
	Sun 6-Dec	Not in operation		Not in operation		1 (A)	7	Alvin Lee
5	Mon 7-Dec	Not in operation		Not in operation		0	-	Anson Chow
	Tue 8-Dec	Not in operation		Not in operation		0	-	Richard Huang
	Wed 9-Dec	Not in operation		Not in operation		0	-	Anson Chow
	Thu 10-Dec	Not in operation		Not in operation		1 (B)	8	Anson Chow
	Fri 11-Dec	Not in operation		Not in operation		0	-	Anson Chow

[†] Dolphin monitoring was conducted, despite the Grab Dredger not operating that day

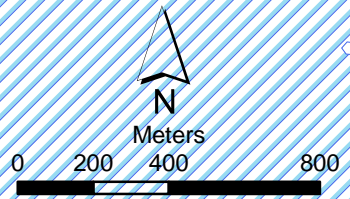
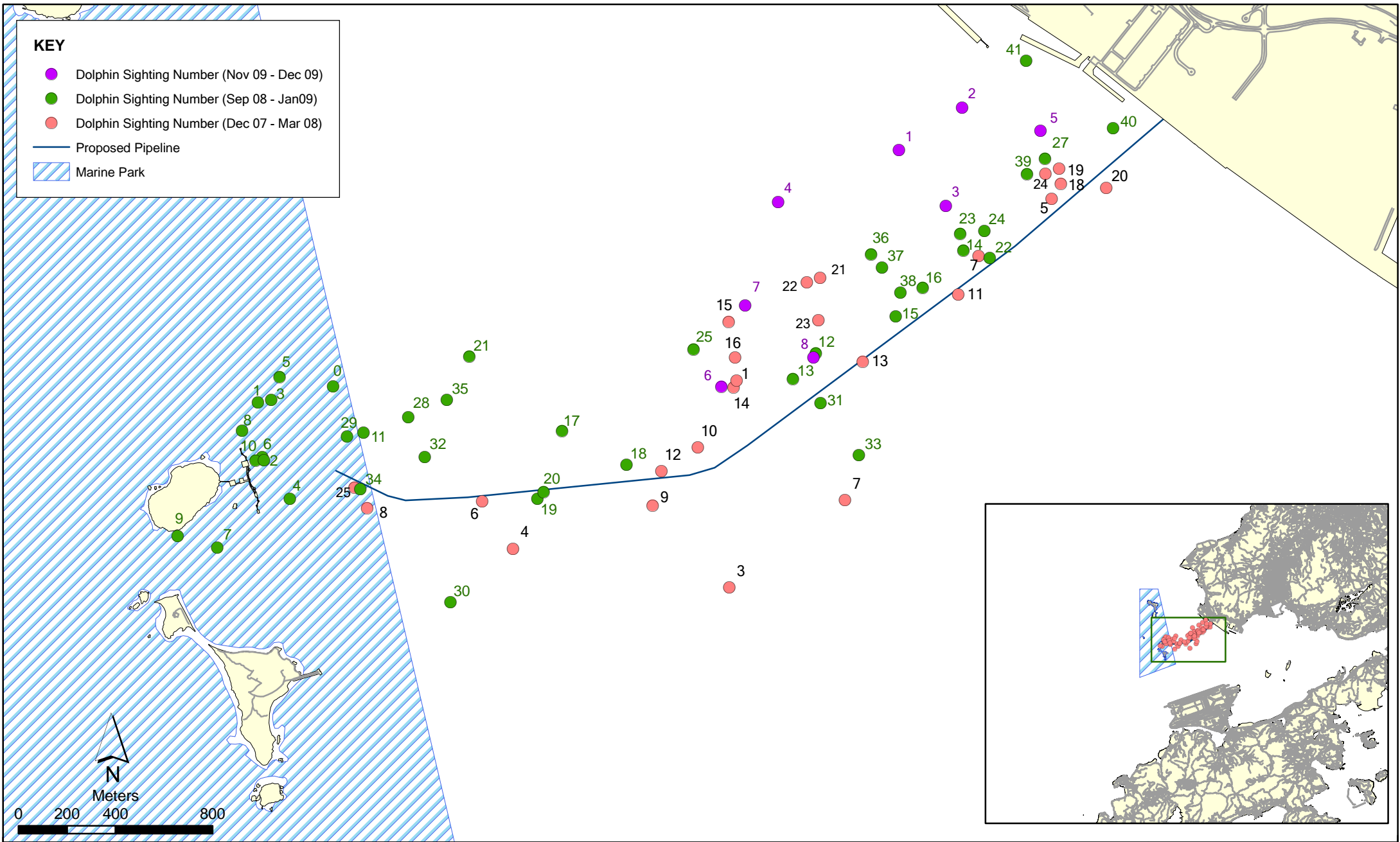
Data included in the 37th Monthly Report

Permanent Aviation Fuel Facility (PAFF) - Dolphin Sighting Records

Sighting No.	Date	Time	Dredger Coordinates (N-Lat)	Dredger Coordinates (E-Long)	Sighting Distance (m)	#Sighting Angle from Dredging Machine (o)	Group size	Group Composition*	Beaufort	Boat Association	Behaviour	Other comments
1	16-Nov-09	0848	825063.045	810003.667	640	278	2	Undetermined	3	None	Undetermined	Sighting at 600m during dredging
2	16-Nov-09	0939	825223.562	810220.771	600	280	1	Undetermined	3	None	Undetermined	Sighting at 640m during dredging
3	19-Nov-09	1017	825098.716	810051.912	520	250	2	1SJ, 1UA	2	None	Travelling	One sighting at 520m during dredging
4	25-Nov-09	0849	825104.661	810059.953	>1200	262	2	Undetermined	2	Shrimp	Feeding	One sighting at >1.2km from vessel during dredging
5	1-Dec-09	0820	825104.641	810060.293	166	320	1	Undetermined	2	None	Jumping	One sighting at 166m. After 20 minutes, at 560m, not during dredging. NB Dredger not in operation for the whole day
6	2-Dec-09	1250	824212.831	808854.207	220	260	2	Undetermined	2	None	Socializing	Sighting at 220m; after 5 minutes, at 250m. Sited during lunch break when dredger had temporarily stopped operations
7	6-Dec-09	0832	824272.284	808934.619	310	320	2	1SS, 1US	2	None	Diving	Sighting at 310m moving west and leaving exclusion zone at 0838, during pre-dredging check
8	10-Dec-09	1645	824303.921	808968.362	50	100	1	Undetermined	2	None	Spy-hopping	Sighting at 50m during dredging
*Key:			# Compass bearing is used (North = 0 degree)									
UC = Unspotted Calf												
UJ = Unspotted Juvenile												
SJ = Spotted Juvenile												
SS = Spotted Sub-adult												
SA = Spotted Adult												
UA = Unspotted Adult												
Data included in the 37th Monthly Report												

KEY

- Dolphin Sighting Number (Nov 09 - Dec 09)
- Dolphin Sighting Number (Sep 08 - Jan 09)
- Dolphin Sighting Number (Dec 07 - Mar 08)
- Proposed Pipeline
- ▨ Marine Park



Dolphin Sighting Locations (as of 31 December 2009)