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

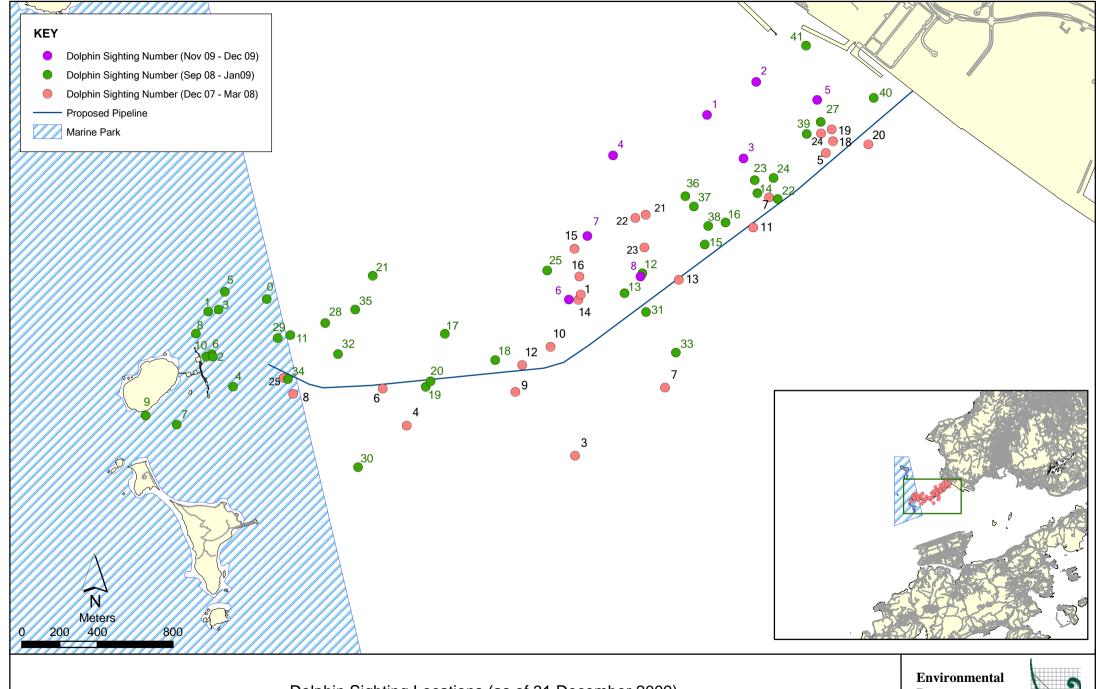
			Derrick Lighters #38		Derrick Lighters #8	33	Grab dredger			
				Sighting		Sighting		Sighting Sheet		
Week		ate	No. of Dolphin Occurrence*	Sheet No.	No. of Dolphin Occurrence*	Sheet No.	No. of Dolphin Occurrence*	No.	Observer's Name Alvin Lee	
1	Fri	13-Nov	0	-	Not in operation	Not in operation		Not in operation		
	Sat	14-Nov	0	-	0 0		Not in operatio	Richard Huang		
	Sun	15-Nov	0	-	0	0	Not in operatio	Richard Huang		
2	Mon	16-Nov	0	-	2 (C)	1-2	Not in operatio	Alvin Lee		
	Tue	17-Nov	0	-	Not in operation		0	-	Richard Huang	
	Wed	18-Nov	0	0	Not in operation		Not in operatio	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	Not in operation			Anson Chow	
	Tue	1-Dec	Not in operation		Not in operation		Not in operation [1 (A)] [†]	5	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 operationing that day

Data included in the 37th Monthly Report

Permanent Aviation Fuel Facility (PAFF) - Dolphin Sighting Records

Cimbina			Dredger Coordinates (N-	Dredger	Sighting Distance	#Sighting Angle from Dredging	Group	Group		Boat		
Sighting No.	Date	Time	Lat)	Coordinates (E- Long)	(m)	Machine (o)	size	Composition*	Beaufort	Association	Behaviour	Other comments
1	16-Nov-09	0848	825063.045	810003.667	640	278	2	Undetermined	3	None		Sighting at 600m during dredging
2	16-Nov-09	0939	825223.562	810220.771	600	280	1	Undetermined	3	None		Sighting at 640m during dredging
_	10 1404 00	0000	020220.002	010220.771	000	200	•	Ondotominod	Ü	None	Onactonimica	olgrang at 5 form daming drodging
3	19-Nov-09	1017	825098.716	810051.912	520	250	2	1SJ, 1UA	2	None	Travelling	One sighting at 520m during dredging
· ·	10 1101 00	1017	020000.710	010001.012	020	200	_	100, 1071	_	110110	riavoming	One sighting at >1.2km from vessel
4	25-Nov-09	0849	825104.661	810059.953	>1200	262	2	Undetermined	2	Shrimp	Feeding	during dredging
					1 1200				_	p	l ccamig	One sighting at 166m. After 20
												minutes, at 560m, not during
												dredging. NB Dredger not in
5	1-Dec-09	0820	825104.641	810060.293	166	320	1	Undetermined	2	None	Jumping	operation for the whole day
											1 0	Sighting at 220m; after 5 minutes, at
												250m. Sited during lunch break when
												dredger had temporarity stopped
6	2-Dec-09	1250	824212.831	808854.207	220	260	2	Undetermined	2	None	Socializing	operations
												Sighting at 310m moving west and
												leaving exclusion zone at 0838,
7	6-Dec-09	0832	824272.284	808934.619	310	320	2	1SS, 1US	2	None	Diving	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:	*Key:			# Compass bearing is used (North = 0 degree)								
H												
	nspotted Calf											
	UJ = Unspotted Juvenile											
	SJ = Spotted Juvenile											
SS = Spotted Sub-adult												
SA = Spotted Adult												
HUA = Ur	UA = Unspotted Adult											
H												
Data included in the 37th Monthly Report												



Dolphin Sighting Locations (as of 31 December 2009)

Environmental Resources Management

