3.3. RECORD OF OPERATIONS

Re	gulatory refere			OCS-G2			Vessel name			Maersk Developer / Joshua Candies					
Project number				UMV0	4080		Operations page number			1 of 1					
Date	Time pre- shooting visual monitoring began	Time pre- shooting visual monitoring ended	Time pre- shooting acoustic monitoring began	Time pre- shooting acoustic monitoring ended	Was it day or night in period prior to firing?	Reason for firing s = survey t = test x = test followed immediately by survey	Time soft start / ramp-up began	Time soft start / ramp-up ended	Time of start of line / test	Time of end of line / test	Time gun(s) disabled after line / test	Time mitigation gun enabled / source output reduced	Time mitigation gun disabled / end of reduced output	Was any mitigation action required?	
2011-07-29	23:18	23:48			day	t	23:48	23:49			23:49			no	
2011-07-29	23:40													no	
2011-07-30		00:10			day	t	00:10	00:35	00:35	03:21	03:21			no	
2011-08-01	21:26	21:56			day	t	21:56	22:17	22:17					no	
2011-08-02										00:45	00:45			no	
2011-08-02	22:38	23:08			day	S	23:10	23:31						no	
2011-08-03									00:14	02:33	02:33			no	
2011-08-06			03:38	04:08	night	t	04:08	04:28	04:28	05:09	05:09			no	
2011-08-07			10:30	11:00	dawn	S	11:00	11:26	12:13					no	
2011-08-09										17:59	17:59			no	

3.4. LOCATION AND EFFORT

RPS

PROTECTED SPECIES RECORDING FORM EFFORT

Regulatory reference number Project number				OCSG-21447#3 UMV04080						Vess	Joshua Candies					
									Effort page number			1 of 1				
Date	Visual or PAM	Observers' initials		Start of watch				End of watch			Wind	Wind	Beaufort	Swell	Visibility	Glare
			Time	Latitude	Longitude	Depth (m)	Time	Latitude	Longitude	Depth (m)	speed (knots)	direction	scale	(m)	(km)	severity
2011-07-29	visual	JM, RE, JA	19:30	26.20917°N	092.12722°W	2330	01:15	26.20917°N	092.12722°W	2330	11	SE	2	<2	>5	severe
2011-08-01	visual	JM, RE, JA	11:30	26.20917°N	092.12722°W	2330	01:15	26.05417°N	091.98722°W	2330	5	SE	1	<2	>5	severe
2011-08-02	visual	JM, RE, JA	11:20	26.11111°N	092.05889°W	2330	01:15	26.09889°N	092.05528°W	2330	5	SE	1	<2	>5	severe
2011-08-03	visual	JM, RE, JA	11:20	26.10306°N	092.05917°W	2330	00:55	26.06944°N	092.05889°W	2330	2	SE	0	<2	>5	moderate
2011-08-06	acoustic	RE	03:00	26.09458°N	092.05523°W	2330	04:45	26.09458°N	092.05523°W	2330	5	SE	1	<2	n/a	n/a
2011-08-06	visual	RE, JA, DW	11:20	26.09458°N	092.05523°W	2330	13:30	26.09458°N	092.05523°W	2330	8	SE	1	<2	>5	severe
2011-08-07	acoustic	RE	10:06	26.09667°N	092.05333°W	2330	11:26	26.09667°N	092.05333°W	2330	5	W	1	<2	n/a	n/a
2011-08-07	visual	RE, JA, DW	11:20	26.09667°N	092.05333°W	2330	01:20	26.15837°N	092.04640°W	2330	5	W	2	<2	>5	severe
2011-08-08	visual	RE, JA, DW	11:20	26.10738°N	092.04487°W	2330	01:15	26.13533°N	092.01358°W	2330	10	S	2	<2	>5	severe
2011-08-09	visual	RE, JA, DW	11:20	26.06585°N	092.09191°W	2330	18:10	26.08475°N	092.05355°W	2330	15	Ν	3	<2	>5	severe



3.5. RECORD OF DETECTION



PROTECTED SPECIES RECORDING FORM DETECTION

Date Project I		umber	Time at first detection (Time at last detection (UTC)	Visual de number	tection	Acoustic detection number		
2011-08-01 UMV		04080	20:07		21:12		1	n/a		
Regulatory reference	e number	Vessel na	ame		Survey type	L	Observer(s)			
OCS-G21447	#3	Maersk	Developer / Candies	Joshua	VSP					
Detection was made)	Detection	was first m	ade						
visually				visually	y by observer keeping a continuous watch					
Latitude of vessel		Longitud	e of vessel		Heading of vessel (c	legrees)	Water depth (metres)			
26.04500°N	I	C	92.01028°W		315		2330			
Swell height (metres)	Beaufort	scale	Precipitation		Visibility (km)	Cloud co	ver (%)	Glare severity and direction		
<2	2	2 none			>5	3	0	mild from N		
Common name			Scientific	name		Certainty	rtainty of identification			
Rough-toot	hed dolphin			Steno bre	edanensis	definite				
Total number	Fotal number Number of adults			f	Bearing to animal(s) first detected (degre		Range to animal(s) when first detected (metres)			
25	2	20 5			210		350			
Description (include colour and pattern; siz direction, and shape of	ze, shape, a			Visual sighting and/or Acoustic detection details (note behavior, especially changes in relation to gun activity and distance from gun array)						
Dolphins were identif size, their lack of a triangular beak wit blotchy s	melon and	smooth slop and their g	oing forehead rayish colorin	approximately 300 m At 20:14UTC the who meters off the sta dolphins were observ quite some time also vessel made a com continued to mill at	Rough-toothed dolphins were detected by a splash at 20: approximately 300 meters from the starboard stern of the At 20:14UTC the whole pod of nearly 25 dolphins was sigh meters off the starboard stern approaching the vessel. dolphins were observed milling at the surface just off the s quite some time also displaying somewhat playful behavio vessel made a complete 180 degree turn in which the do continued to mill at the stern. At 21:00UTC the vessel he away from the dolphins. The dolphins were lost from sig 21:12UTC.					
Direction of travel / 1	first approa	ach (relative	to vessel)		Initial compass head (degrees)	ding	Final compass heading (degrees)			
	towards	s vessel			335		(degrees) 335			
Closest distance of to airguns/source (n	Closest distance of animals to vessel (metres)			Source activity at in detection	itial	Source activity at final detection				
0		0		not firing		not firing				
Time at closest appr (UTC)	roach	Distance First	during soft Closest	start (m) Last	Source mitigation ac required	ction(s)	Strike av required	oidance maneuvers		
20:30		n/a	n/a	n/a	delayed start of	firing		no		
Duplicate detection? number	? If yes, pro	ovide dupli	cate detecti	Total duration anima observed in exclusio (HH:MM)		Total duration of production loss due to mitigation action (HH:MM)				
	n	0			01:05		00:00			

