

**APPENDIX A**  
**SUMMARY OF LOW ENERGY OFFSHORE GEOPHYSICAL PERMIT FILE REVIEW**

PAGE INTENTIONALLY LEFT BLANK

Summary of Low Energy Offshore Geophysical Permit File Review

Table A-1. Summary of OGPP survey activity, 2008-2012.

Permit Holder	Permit Number	Area of Operations	Region	Period of Operations	Duration of Operations (days)	Equipment	Simultaneous Operations	Field Ops Report	Notes/Comments
<b>Statewide</b>									
David Evans and Associates, Inc.	8345	No activity		No activity	No activity	No activity	No activity	No activity	No activity
Fugro Pelagos, Inc.	8391	San Clemente Island	I	40860	1	MBS; SBP	No?		MWCP available
Fugro West, Inc.	8392	Offshore Pitas Point	II	11/19/2012-11/29/2012	1	SBS; SSS	No		
		Offshore Estero Bay	II	11/5/2012-11/16/2012	4-12	MBS; SSS	No		
		Estero Bay to Pt. Sal	II	8/20/2012-11/20/2012	47	Boomer (2kJ)	No		
		Santa Monica Basin, off Pacific Palisades	I	4/16/2012-6/8/2012	9	SSS, MAG, MBS, SBP	Yes; SSS/SBP		Both State (50%) and Federal waters (50%); two vessels; SSS, MAG, and SBP off R/V Westerly; MBS off S/V Julie Ann
		Santa Barbara Channel	II	4/3/2012-5/31/2012	9	SSS, SBP	Yes		Both State (50%) and Federal waters (50%); two vessels; SSS, MAG, and SBP off R/V Taku; MBS off S/V Julie Ann
		Santa Monica Basin, off Pacific Palisades	I	1/12/2012-2/29/2012	9	SSS, MAG, MBS, SBP	Yes; SSS/SBP		
		Avila Bay	II	12/4/2011-1/30/2012	20	Boomer (2kJ)	No		
		Offshore Point Buchon	II	12/1/2011-1/15/2012	2 (est)	ROV	Not applicable		
		Offshore Coal Oil Point, Santa Barbara Channel	II	11/22/2011-1/30/2012	1	SSS, SBP (subbottom bathymetry)	Yes		
		Offshore Goleta	II	10/10/2011-10/31/2011	1	MAG	Not applicable		Both State (50%) and Federal waters (50%)
		Santa Barbara Channel	II	9/8/2011-10/15/2011	16	SSS; SBP	Yes		Both State (50%) and Federal waters (50%); two vessels; SSS and SBP off M/V Toby Tide; SSS and SBP off M/V Danny C
		Offshore Santa Barbara	II	4/18/2011-5/15/2011	6	MBS; SSS; SBP	Yes		Exclusively Federal waters
		Offshore San Luis Obispo County	II	1/6/2011-3/30/2011	54	Boomer (2kJ)	No		Both State (50%) and Federal waters (50%)
		Offshore Coal Oil Point, Santa Barbara Channel	II	12/7/2010-1/30/2011	1	MBS	No		
		Long Beach offshore (Elly to shore)	I	10/20/2010-10/22/2010	3	SSS	No		
		Offshore San Luis Obispo County	II	10/20/2010-12/31/2010	48	Boomer (2kJ)	No		Both State (50%) and Federal waters (50%)
		Offshore Long Beach	I	10/14/2010-11/30/2010	2	SSS	No		
		Offshore Carpinteria	II	7/27/2010-8/28/2010	1	MBS (multibeam)	No		
		Offshore Coronado	I	7/21/2010-7/24/2010	2	SSS, FATHO, MAG	No		
		Offshore Carpinteria	II	2/23/2009-3/20/2009	2	MBS (multibeam)	No		
		Offshore Coal Oil Point, Santa Barbara Channel	II	2/1/2009-2/28/2009	1	MBS (multibeam bathymetry)	No		
		Offshore Imperial Beach	I	12/16/2008-1/10/2009	2	SSS, SBP, FATHO, MAG	Yes		MWCP available;
		Offshore Oxnard	II	8/4/2008-9/15/2008	4	SSS, MAG	No		
		Offshore Long Beach	I	4/18/2008-5/30/2008	6	SSS	No		
U.S. Geological Survey	8394	Outer Estero Bay, Morro Bay	II	7/30/2012-8/8/2012	1-2 (est)	MBS	No		
		Monterey Bay to Pt. Sur	III	5/14/2012-5/23/2012	2-3 (est)	SPARK; CHIRP	No?		
		Pt. Sal to Pt. Arguello	II	9/10/2011-9/21/2011	4-5 (est)	SPARK; CHIRP	No?		
		Port Hueneme to Ventura	II	7/6/2011-8/4/2011	2-3 (est)	ECHO	No		
		San Diego to Catalina Island	I	6/8/2011-6/26/2011	5-7 (est)	MBS; SPARK; CHIRP	No?		Predominantly Federal waters (90%)
		Monterey Bay to Pt. Sur	III	5/16/2011-5/27/2011	2-3 (est)	SPARK; CHIRP	No?		
		Oceanside to Dana Point	I	11/8/2010-11/22/2010	1-2 (est)	MBS	No		
		Oceanside to Dana Point	I	5/10/2010-5/21/2010	1-2 (est)	MBS	No		
		Stinson Beach to Pt. Arena	III, IV	9/8/2009-9/30/2009	2-3 (est)	SPARK; SBP			

Summary of Low Energy Offshore Geophysical Permit File Review

Permit Holder	Permit Number	Area of Operations	Region	Period of Operations	Duration of Operations (days)	Equipment	Simultaneous Operations	Field Ops Report	Notes/Comments
		Pt. Buchon to Gaviota	II	7/14/2009-8/8/2009	5-7 (est)	SPARK; SBP			Both State (25-35%) and Federal waters (65-75%)
		Monterey Canyon to Pt. Ano Nuevo	III	8/12/2009-8/30/2009	2-3 (est)	SBP; SEA SWATH			
		Pt. Buchon to Gaviota	II	6/9/2008-7/1/2008	5-7 (est)	SPARK; SBP			Both State (25-35%) and Federal waters (65-75%)
EcoSystems Management Associates, Inc.	8536	II; Port Hueneme, Ventura County	II	6/18/2010-8/31/2010	2	MBS; SSS	No		
		II; Port Hueneme, Ventura County	II	10/1/2009-11/30/2009	2	MBS; SSS; MAG	No	Yes	1 day for each system
		Santa Cruz Harbor	III	10/13/2009-10/31/2009	11	MBS; Boomer; SBP	No	Yes	MBS 4 days; boomer 4 days; SBP 3 days
Applied Signal Technology/Raytheon	8855	Manhattan Beach to Zuma Beach	II	9/11/2011-11/22/2011	5-7 (est)	MBS; SBS; SSS; MAG			
Coastal Frontiers Corporation	8911	San Diego County	I	7/9/2012-12/31/2012	15-20 (est)	MBS; SBS; SSS			
		Santa Monica Bay	II	10/14/2012-10/28/2012	5-7 days (est)	MBS; SBS; SSS; MAG			
		Santa Monica Bay	II	6/19/2012-6/22/2012	4 (est)	MBS; SBS; SSS; MAG			
University Corporation, CSUMB	8859	Regions II, III, IV	II, III, IV	2/24/2010 start; no end date	80 days (II); 20 days (III, IV); 1-30 days for individual blocks	MBS; SSS	No		Nighttime operations not noted, but possible
		Regions II, III, IV	II, III, IV	2009?; anytime during the year	1-30 days for individual blocks	MBS; SSS	No		Nighttime operations possible
Sea Engineering, Inc.	8864	No activity		No activity	No activity	No activity	No activity	No activity	No activity
Sea Surveyor, Inc.	8986	Carpinteria and Rincon Island	II	10/24/2012-10/31/2012	1-2 (est)	SBS; SSS; MAG			
		Malibu	I	4/24/2012-4/26/2012	3	CHIRP		Yes	
TerraSond, Ltd.	9007	No activity		No activity	No activity	No activity	No activity	No activity	No activity
<b>Project-Specific</b>									
San Diego County Water Authority	8928	Oceanside	I	9/6/2011-9/10/2011; 9/13/2011	6	CHIRP		Yes	

**Abbreviations - Equipment Type**

Multi-Beam Sonar (MBS)	Magnetometer (MAG)
Single Beam Sonar (SBS)	Fathometer (FATHO)
Subbottom Profiler (SBP) = CHIRP	Boomer (BOOMER)
Side-Scan Sonar (SSS)	Single Beam Bathymetry (SBB)
Sparker (SPARK)	