

**M/V Cosco Busan Oil Spill (November 7, 2007)  
Administrative Record for Natural Resources Damage Assessment**

**Prepared by the Natural Resource Trustees  
for the Cosco Busan Incident.**

**Trustee Agencies:**

**United States Department of Commerce, acting through the National Oceanic and Atmospheric Administration ("NOAA"); the United States Department of the Interior ("DOI"), acting through the National Park Service ("NPS"), the U.S. Fish and Wildlife Service ("FWS"), and the Bureau of Land Management ("BLM"); the California Department of Fish and Game ("CDFG"), and the California State Lands Commission ("CSLC").**

This record and index was prepared in January 2010. The Trustees will add documents to the record, and update the index, over time.

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	1/2008	<i>Natural Resource Damage Assessment and Restoration Planning for the Cosco Busan Oil Spill – Factsheet, 1 page.</i>
	01/14/2008	<i>Cosco Busan NRDA News Release, Cosco Busan Oil Spill Restoration Agencies Schedule Two Public Meetings to Obtain Public Input, 2 pages.</i>
	05/2008	<i>Natural Resource Damage Assessment and Restoration Planning for M/V Cosco Busan Oil Spill – Factsheet, 1 page.</i>
	10/2008	<i>Natural Resource Damage Assessment and Restoration Planning for M/V Cosco Busan Oil Spill: UPDATE – Factsheet, 1 page.</i>
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	1/11/2010	Notice of Intent to Conduct Restoration Planning (pursuant to 15 C.F.R. Section 990.44) – Discharge of Oil from the <i>M/V COSCO BUSAN</i> into San Francisco Bay, November 7, 2007, 7 pages.
<b>7.</b>		
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	08/16/2009	Pete Raimondi, Dan Orr, Christy Bell, Maya George, Sara Worden, Melissa Redfield, Rani Gaddam, Laura Anderson and Dave Lohse, University of California, Santa Cruz, <i>Determination of the Extent and Type of Injury to Rocky Intertidal Algae and Animals One Year After The Initial Spill of Cosco Busan: A Report Prepared for OSPR (California Fish and Game)</i> , 62 pages.
	09/28/2009	Chela Zabin, Ted Grosholz and Sarikka Attoe, Department of Environmental Science and Policy, University of California, Davis, <i>Sublethal Effects of the November 2007 Cosco Busan Oil Spill on Native Oysters – Draft Report</i> , 18 pages.
	11/2007-12/2007	SCAT Fieldnotes for November 14, 20, 23, 25, and 28, 2007 and December 1 & 10, 2007, 5 pages.
	12/11/09	Google Earth Images of Shoreline Areas Affected by Cosco Busan Incident, 7 pages.

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	11/19/2007	D. Jaques, Pacific Eco Logic, <i>Brown Pelican Survey, Cosco Busan Incident, San Francisco Bay, California</i> , with Pelican Survey Results, (Excel spreadsheet). 2 pages.
	03/12/2008	Julie Thayer and Sara Acosta, <i>PRBO Conservation Science, Oiled Wildlife On and Around Alcatraz Island After The Cosco Busan Spill</i> , 6 pages.
	05/2008	Laurie Hall and M. Zach Peery, Moss Landing Marine Laboratories, <i>Identifying the Origin of the Marbled Murrelets Recovered from the Cosco Busan Oil Spill -- Final Report</i> , 8 pages.
	11/2007	Marbled Murrelet Aerial Overflight Survey Coverage Maps, 4 pages.
	12/2007	Nils Warnock, Ph.D., Wetlands Ecology Division, PRBO Conservation Science, <i>Post-Oil Spill Shorebird Surveys of San Francisco Bay and Marin County Shoreline</i> , 14 pages.
	02/2008	<i>Natural Resource Damage Assessment for the Cosco Busan Oil Spill, Bird Injury Summary</i> , – Factsheet, 2 pages.
		Gary Page, PRBO Conservation Science, <i>Cosco Busan NRDA Snowy Plover Surveys</i> , 2 pages.
	12/2007	<i>Table 1, Breakdown of Snowy Plover Observations at the Six Study Sites</i> , 1 page.
	06/06/2008	Tables -- Results from Petroleum Chemistry Lab, November and December 2007, 1 page.

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	12/3/2009	R. Glenn Ford, Janet L. Casey, Wendy A. Williams, R.G. Ford Consulting Company, <i>Final Report, Acute Seabird and Waterfowl mortality resulting from the M/V Cosco Busan Oil Spill, November 7, 2007</i> , 54 pages.
<b>10.1.2 Quantification (§ 990.52)</b>		
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	11/2007	Aerial photograph of Cosco Busan oil sheen adjacent to Fort Mason, San Francisco, Herring spawning grounds, 1 page.
	11/29/2007	California Environmental Protection Agency, <i>Report on the Safety of Consuming Fish and Shellfish From Areas Impacted by the M/V Cosco Busan Oil Spill in San Francisco Bay, California</i> , 55 pages.
	11/30/2007	NOAA Northwest Fisheries Science Center, Environmental Science Center, <i>The 2007 Cosco Busan Oil Spill: Assessing Toxic Injury to Pacific Herring Embryos and Larvae in the San Francisco Estuary, Draft Proposal</i> , 16 pages.
	12/31/2007	<i>M/V Cosco Busan Response, Submerged Oil Screening Survey Report, Final</i> , 4 pages.
	02/09/2008	Gregory S. Douglas, Ph.D, NewFields Environmental Forensics Practice, Letter to Gary Mauseth, Polaris Applied Sciences, Inc. Re: Evaluation of Environmental Chemistry Results Associated with the NOAA Report entitled: "2008 Cosco Busan Oil Spill Assessing Toxic Injury to Pacific Herring Embryos and Larvae in the San Francisco Bay. Draft Report. September 2008," 124 pages.

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	02/15/2008	James D. Moore, Ph.D, Senior Fish Pathologist, California Department of Fish and Game, Letter to Dr. Beckye Stanton, California Department of Fish and Game, Re: <i>SF08-3, Dungeness Crab Mortality</i> , 2 pages.
	04/17/2008	California Department of Fish and Game, Herring Management and Research Team, <i>Summary of the 2007-08 Pacific Herring Commercial Fisheries in San Francisco Bay, Preliminary Report</i> , 8 pages.
	09/08/2008	John Incardona, Gina Ylitalo, Mark Myers, Nathaniel Scholz and Tracy Collier, NOAA Northwest Fisheries Science Center; Carol Vines, Fred Griffin, Ed Smith and Gary Cherr, Departments of Environmental Toxicology, Environmental Science and Policy, and the Aquatic Resources Group, Bodega Marine Laboratory, University of California, Davis, <i>The 2007 Cosco Busan Oil Spill: Assessing Toxic Injury to Pacific Herring Embryos and Larvae in the San Francisco Estuary, Draft Report</i> , 48 pages.
	Not Dated	Northwest Fisheries Science Center, National Marine Fisheries Service, NOAA and the Departments of Environmental Toxicology, Environmental Science and Policy, and the Aquatic Resources Group, Bodega Marine Laboratory, University of California, Davis, <i>Standard Operating Procedures for the 2007 Cosco Busan Oil Spill: Assessing Toxic Injury to Pacific Herring Embryos and Larvae in the San Francisco Estuary, Draft Report</i> , 43 pages.
	01/21/2009	NewFields Environmental Forensics Practice, <i>Evaluation of Measurement Endpoints for the Assessment of Potential Petroleum Related Responses by Pacific Herring: Early Development, Final Draft Report</i> , 62 pages.
	01/21/2009	W.H.Pearson, <i>Technical Note Review of Assessment of Injury to Pacific Herring from the Cosco Busan Oil Spill</i> , 25 pages.
	04/06/2009	California Department of Fish and Game, Herring Management and Research Team, <i>Summary of the 2008-09 Pacific Herring Commercial Fisheries in San Francisco Bay, Preliminary Report</i> , 9 pages.

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	02/28/2008	M/V Cosco Busan, Passive Pom-Pom Survey Data Sheet, 6 pages.
	03/26/2009	Mark S. Fonseca, Christine M. Addison, Gregory A. Piniak and Natalie Cosentino-Manning, NOAA Restoration Center and NOAA Center for Coastal Fisheries and Habitat Research, <i>Demographic and Photosynthetic Characteristics of Eelgrass After an Oil Spill in San Francisco Bay, USA</i> , Draft Report, 32 pages.
	5/20/2009	Merkel & Associates, Inc., <i>Keil Cove Eelgrass Distribution – side scan mosaics January 2008 to May 2009</i> , 1 page.
	No Date	<i>Keil Cove Eelgrass Distribution Summary</i> , January 2008 to May 2009. 1 page.
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	11/15/2007	Dead Animal Response within Spill Zone, 1 page.
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	10/26/2009	National Park Service, Final Master Closure List with Activities, 3 pages (Excel spreadsheet).
	10/26/2009	East Bay Regional Park District, Master Closure List Final, 3 pages (Excel Spreadsheet).
	10/26/2009	Total Monthly Visitors, 24-Hour Time Period, November 2007 – June 2008 (Excluding Boaters and Anglers). Draft, 1 page.
<b>14.1.2 <u>Quantification (§ 990.52)</u></b>		
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