

Appendix U: Example of Available Environmental Monitoring Data

Deepwater Horizon (MC252) Incident Response Sampling / Monitoring Program Information

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Organics

Lead Group	Sampling Program	Program Type	Purpose	Analytical Request Form (ARF#)	Matrix	VOCs by TO15 ¹	VOC 8260 ¹	TCLP VOC	VOA +20 tics	VOC/BTEX (GS O-5506-06)	BTEX	TCLP Benzene	SVOC 8270	TCLP SVOC	PAHs	PAH 8270 SIM [a=43 PAH]	SVOC/PAHs (GS O-3116-87)	SVOC/PAHs (GS O-5506-06)	Alkane 16-PAHs	Alkylated PAHs	UV Extraction	Fingerprinting	TCEQ1006	ASTMD2887	ASTMD5134	ASTMD5739	ASTMD2622	TPH	TPH/SHC	TPH (DRO, GRO, ORO) 8015	GC/FID Trace 8015M	TPH by UV/Vis: 418.1	O&G 1664				
BP		Air Monitoring	Industrial hygiene.	ARF	Air	X																															
BP		Air Sampling	Establish a baseline of pre-impact conditions.	ARF	Air								X																	X		X					
BP		Sediment Sampling		ARF	SE								X																X		X						
BP	RAT	Water Sampling	Surface Water Sampling	ARF 01	SW						X		X																X								
BP	WS	Multi-Media Sampling	Oil/Debris/Water (TCLP)	ARF 02							X																										
BP	RAT	Oil Sampling	Assess anomalous results identified by other parties. OPS determines whether skimming operations are warranted. Oil (weathered/source), Floating oil sheen	ARF 03	Oil										X							X						X									
BP		Multi-Media Sampling	Swabs of Multimedia (Seafood)	ARF 04	FH																																
BP		Oil Sampling	Weathered Oil	ARF 04-1	Oil														X	X	X	X															
BP		Water/Oil Sampling	Water/Oil	ARF 05	SW/Oil		X						X									X	X	X	X	X	X		X								
BP	SOS	Oil Sampling	Submerged Oil Sample in Timbalier	ARF 05-1	Oil										X							X					X										
BP	DDSP	Air Sampling	Coastline Community	ARF 07	Air	X		X																													
BP	FRAT	Oil/Tarball Sampling		ARF 08	Tarball										X							X							X								
BP	RAT	Oil Sampling	Floating Oil Sheen	ARF 08-1	Oil																										X						
BP	DEEP	Multi-Media Sampling	Aquatic Tox Biodeg. Studies	ARF 09	SW/SE																																
BP	Weathered Oil	Oil Sampling	Weathered Oil (EPA split samples)	ARF 9-1	Oil			X						X																							
BP	Study	Oil Study	Weathered Oil Treatment Study	ARF 10																																	
BP	PS	Water Sampling	Production Platform Water Intake	ARF 10-1	SW																											X	X				
BP	SMART	Water Monitoring	Oil Dispersant Impacts	ARF 11															X	X		X															
BP	DEEP	Water Sampling	SW and Oil - Dispersant Studies	ARF 12	SW						X				X							X										X					
BP	Study	Oil Study	Oil- Treatability Study	ARF 13																																	
BP	Study	Oil Study	Oil- Treatability Study	ARF 14																																	
BP	SOS	Sentinel Snare Sampling	Determine submerged oil in nearshore areas using sentinel snares. If oil is present, determine if it is MC252 oil.	ARF 15	Oil										X				X			X							X	X							
BP	Coastal Surface Water	Water Sampling	Surface Waters (coastal)	ARF 16	SW			X						X																	X						
BP	Vessel IH	Air Sampling	Industrial hygiene - Offshore Vessels (near source)	ARF 17	Air	X																															

Deepwater Horizon Sampling /			Monitoring Parameter / Test																	Timing							
Lead Group	Sampling Program	Program Type	Diagnostic (Cause of Death)	Fluorometry	CTD	DO Probe	LISST	O2	H2S	PM 2.5	PM10	VOC	SO ₂	TNMOC	Benthic Invertebrates	Cytochrome P450 1A	Algae	Bacteria	Toxicity	Acute Tox.	Chronic Tox	Bioaccumulation	Sediment Tox	Completed? Y/N	Frequency/Duration	Analytical Turn Around Time	
BP		Air Monitoring								X					X												ASAP
BP		Air Sampling																									ASAP
BP		Sediment Sampling																									
BP	RAT	Water Sampling																									ASAP
BP	WS	Multi-Media Sampling																									
BP	RAT	Oil Sampling																							Daily	ASAP	
BP		Multi-Media Sampling																									
BP		Oil Sampling																									
BP		Water/Oil Sampling																									
BP	SOS	Oil Sampling																									
BP	DDSP	Air Sampling								X																	2 day
BP	FRAT	Oil/Tarball Sampling																									
BP	RAT	Oil Sampling																									
BP	DEEP	Multi-Media Sampling																	X	X	X	X	X				ASAP
BP	Weathered Oil	Oil Sampling																									
BP	Study	Oil Study																									
BP	PS	Water Sampling																									ASAP
BP	SMART	Water Monitoring																									
BP	DEEP	Water Sampling																									ASAP
BP	Study	Oil Study																									
BP	Study	Oil Study																									
BP	SOS	Sentinel Snare Sampling																							Daily	ASAP	
BP	Coastal Surface Water	Water Sampling																									
BP	Vessel IH	Air Sampling																									ASAP

Deepwater Chemical Analysis

Sampling / Analytes

NRDA

Inorganic

Physical

Characteristics

Lead Group	Sampling Program	Program Type	Pest/PCBs 8085/8082	DOC	TOC 415.1	NIOSH 1403 (Alcohols)	NIOSH 5523 (Glycols)	Propylene Glycol	2-Butoxyethanol	NRDA TPH/SHC	NRDA VOCs	NRDA VOA (PIANO)	NRDA PAH [43 PAH]	TAL Metals	TCLP Metals	Metals 6010/7470	Trace metals (GS I-4471-97)	Trace metals	Hg	Surfactants	Subsurface Dispersant (8015)	Dispersants	Corexit	Nutrients	Suspended Solids (NTUs)	Filterable solids	Emulsion	DIC	Sulfur	Ammonium (NH4)	Grain Size	Viscosity (ASTM D445)	Dispersability (ASTM)	Density (SM5210)	Percent Water ASTM203	Specific gravity (ASTM)	Flash Point	Corrosivity	Ignitability	Boiling Point	Melting and pouring point	UV Scan (Presence of Dispersant)	UV Scan (Percent Oil)			
BP	FRAT	Water Sampling																																												
BP	SR	Oil Sampling																																X		X		X								
BP	SR	Oil Sampling																																												
BP	SR	Water Sampling						X	X																																					
BP	DDSP	Water/Oil Sampling						X	X													X																								
BP	Plume Monitoring	Water Sampling						X	X																	X																			X	
BP	LOOP	Water Sampling																																												
BP	TKMS	Mud Samping													X																													X	X	
BP	SR	Water/Oil Sampling													X								X										X		X	X		X	X	X						
BP	ERS	Water Sampling																					X																							
BP	WS	Oil Sampling																								X										X	X							X		
BP	SR	Oil Sampling																																												
BP	SR	Oil Sampling																																X		X	X									
BP	SENTINEL	Solids Sampling																																												
BP	DEEP	Water/Oil Sampling																					X																							
BP	TKMS	Mud Samping													X																														X	X
BP	DEEP	Water Sampling																					X									X		X	X											
BP	SR	Tissue/Water Sampling																					X																							
BP	SR	Sediment Sampling																					X																							
BP	CBG	Oil Sampling																									X						X		X	X								X		
BP	MarshSorb	Sorbant Sampling																																												
BP	DISP	Water Sampling																					X																							
BP	SCAT	Sand Sampling																																												
BP	SR	Oil Sampling																																												

Deepwater H			Monitoring																			Timing					
Sampling /			Parameter / Test																								
Lead Group	Sampling Program	Program Type	Diagnostic (Cause of Death)	Fluorometry	CTD	DO Probe	LISST	O2	H2S	PM 2.5	PM10	VOC	SO ₂	TNMOC	Benthic Invertebrates	Cytochrome P450 1A	Algae	Bacteria	Toxicity	Acute Tox.	Chronic Tox	Bioaccumulation	Sediment Tox	Completed? Y/N	Frequency/Duration	Analytical Turn Around Time	
BP	FRAT	Water Sampling																									
BP	SR	Oil Sampling																									
BP	SR	Oil Sampling																									
BP	SR	Water Sampling																									ASAP
BP	DDSP	Water/Oil Sampling																									
BP	Plume Monitoring	Water Sampling																		X							ASAP
BP	LOOP	Water Sampling																									
BP	TKMS	Mud Samping																									
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BP	SR	Oil Sampling																									
BP	SR	Oil Sampling																									
BP	SENTINEL	Solids Sampling																									
BP	DEEP	Water/Oil Sampling																									
BP	TKMS	Mud Samping																									
BP	DEEP	Water Sampling																									
BP	SR	Tissue/Water Sampling																									
BP	SR	Sediment Sampling																X									
BP	CBG	Oil Sampling																									
BP	MarshSorb	Sorbant Sampling																									
BP	DISP	Water Sampling																									
BP	SCAT	Sand Sampling																									
BP	SR	Oil Sampling																									

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Sampling / Monitoring Program Information**

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Organics

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BP	SR	Suspended Sediment Sampling	Samples of suspended sediments will be collected to determine if oil is present/related to MC252	ARF 44	S										X					X		X							X	X			
BP	WS	Waste Sampling	Waste characterization	ARF 45	Q/S			X						X																			
BP	SR	Water Sampling	Water in area of turtles found on beach	ARF 46	Q				X		X				X						X								X				
BP	WS	Waste Sampling	Waste water sampling at BOP site	ARF 47	Q			X						X																			
BP	SR	Fingerprinting	determine source material for high profile calls from residents	ARF 48	Q/S/O										X					X		X											
BP	Waste	Dispersant Sampling	dispersant presence or absence for expo	ARF 49	O										X					X													
BP	SR	Water Sampling	testing trip blanks for low level volatiles	ARF 50	Q			X																									
BP	SR	Oil Sampling	Oil or Sheen samples from ballast tanks from shuttle tanker	ARF 51	O/S				X						X					X		X											

Deepwater H			Monitoring																			Timing					
Sampling /			Parameter / Test																								
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BP	SR	Suspended Sediemnt Sampling																									
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