



Pre-Permitting Environmental / Socio-Economic Data Report Series

Report Series E- Trace Elements (Sediments & Soils)

Report E-7 Summary of Port Site Marine Sediment Organic Analytical Results, 2004 - 2005

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Collected for the Pebble Partnership by: Pentec Environmental*

Preliminary data. Do not cite or quote.

The Pebble Partnership is providing environmental and socio-economic baseline data collected to inform the development of the Pebble Project to state and federal agencies, project stakeholders and the general public prior to project permitting as part of its commitment to full and open disclosure.

A comprehensive Environmental Baseline Document (EBD) will subsequently be prepared and appended to future project permit applications. The EBD will also be made publicly available when complete.



Prepared for the Pebble Limited Partnership by:

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Pebble Project
Summary of Port Site Marine
Sediment Organic Analytical Results, 2004-2005

Sample Station Location ID	Date Sampled	Total Organic Carbon (%)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m&P-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Gasoline Range Organics (mg/Kg)	Diesel Range Organics (mg/Kg)	Residual Range Organics (mg/Kg)	2-Methyl naphthalene (µg/Kg)
MBB	7/21/2005	0.27	ND	ND	ND	ND	ND	ND	6.6	97	1.4
MBSA1	7/22/2005	0.16	ND	ND	ND	ND	ND	ND	ND	93	0.45
MOPP1	8/31/2004	0.241	ND	ND	ND	ND	ND	0.258	18.6	18.6	
MPS11	8/28/2004	0.623	ND	ND	ND	ND	ND	0.227	22.8	103	
	8/29/2004	0.423									
MPS12	8/28/2004	0.576	ND	ND	ND	ND	ND	0.705	19.4	20.8	
MPS13	8/29/2004	0.55	ND	ND	ND	ND	ND	1.24	24.1	34	
MPS14	8/29/2004	0.568	ND	ND	ND	ND	ND	1.32	20.1	33.9	
MPS15	8/29/2004	0.996	ND	ND	ND	ND	ND	0.845	21.5	25.9	
MPS1A	7/21/2005	0.66	ND	ND	ND	ND	ND	ND	ND	96	ND
MPS1L	8/29/2004	0.135	ND	ND	ND	ND	ND	0.215	17.9	17.9	
MPS1M	8/29/2004	0.109	ND	ND	ND	ND	ND	0.86	19.8	19.8	
MPS2	8/31/2004	0.578									
	7/19/2005	0.58	ND	ND	ND	ND	ND	13	24	120	2.5
MPS21	8/27/2004		0.00427	0.0164	0.0082	0.0164	0.0082	1.31	18.4	30.9	
MPS22	8/27/2004		0.00438	0.0169	0.00843	0.0169	0.00843	1.33	11.6	19.1	
	8/28/2004	0.812									
MPS23	8/28/2004	0.564	ND	ND	ND	ND	ND	1.47	20.4	29.3	
MPS24	8/28/2004	0.431	ND	ND	ND	ND	ND	1.27	20.3	33.2	
MPS25	8/28/2004	0.498	ND	ND	ND	ND	ND	0.317	18.2	32.9	
MPS2L	8/27/2004	0.735	ND	ND	ND	ND	ND	1.28	18.2	18.2	
MPS2M	8/27/2004	0.376	ND	ND	ND	ND	ND	0.703	28	28	
MPS3	7/22/2005	0.88	ND	ND	ND	ND	ND	ND	36	120	2.6
MPS3L	8/31/2004	1.28	ND	ND	ND	ND	ND	0.502	43.4	142	
MPS3M	8/31/2004	0.507	ND	ND	ND	ND	ND	0.314	18.6	32.2	
MPS4	7/22/2005	0.58	ND	ND	ND	ND	ND	ND	37	120	1.5

mg/Kg milligram per kilogram
µg/Kg microgram per kilogram
ND not detected above method reporting limit

Pebble Project
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Sample Station Location ID	Date Sampled	Acenaphthene (µg/Kg)	Acenaphthylene (µg/Kg)	Anthracene (µg/Kg)	Benzo(a) anthracene (µg/Kg)	Benzo(a) pyrene (µg/Kg)	Benzo(b) fluoranthene (µg/Kg)	Benzo(g,h,i) perylene (µg/Kg)	fluorant hene (µg/Kg)	Chrysene (µg/Kg)	Dibenzo(a,h) anthracene (µg/Kg)
MBB	7/21/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MBSA1	7/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOPP1	8/31/2004										
MPS11	8/28/2004 8/29/2004										
MPS12	8/28/2004										
MPS13	8/29/2004										
MPS14	8/29/2004										
MPS15	8/29/2004										
MPS1A	7/21/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MPS1L	8/29/2004										
MPS1M	8/29/2004										
MPS2	8/31/2004 7/19/2005	ND	ND	ND	0.29	ND	0.88	0.59	ND	0.94	ND
MPS21	8/27/2004										
MPS22	8/27/2004 8/28/2004										
MPS23	8/28/2004										
MPS24	8/28/2004										
MPS25	8/28/2004										
MPS2L	8/27/2004										
MPS2M	8/27/2004										
MPS3	7/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MPS3L	8/31/2004										
MPS3M	8/31/2004										
MPS4	7/22/2005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Pebble Project
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Sample Station Location ID	Date Sampled	Dibenzofuran (µg/Kg)	Fluoranthene (µg/Kg)	Fluorene (µg/Kg)	Indeno(1,2,3-cd) pyrene (µg/Kg)	Naphthalene (µg/Kg)	Phenanthrene (µg/Kg)	Pyrene (µg/Kg)
MBB	7/21/2005	0.4	ND	ND	ND	3.5	1.3	ND
MBSA1	7/22/2005	ND	ND	ND	ND	3.1	0.46	ND
MOPP1	8/31/2004							
MPS11	8/28/2004 8/29/2004							
MPS12	8/28/2004							
MPS13	8/29/2004							
MPS14	8/29/2004							
MPS15	8/29/2004							
MPS1A	7/21/2005	ND	ND	ND	ND	3.2	ND	ND
MPS1L	8/29/2004							
MPS1M	8/29/2004							
MPS2	8/31/2004 7/19/2005	0.79	0.87	0.49	ND	3.9	3.4	0.83
MPS21	8/27/2004							
MPS22	8/27/2004 8/28/2004							
MPS23	8/28/2004							
MPS24	8/28/2004							
MPS25	8/28/2004							
MPS2L	8/27/2004							
MPS2M	8/27/2004							
MPS3	7/22/2005	0.75	0.6	0.43	ND	4.3	2.4	0.65
MPS3L	8/31/2004							
MPS3M	8/31/2004							
MPS4	7/22/2005	0.45	ND	ND	ND	3.9	1.5	ND

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MPS41	38228 38229	0.73 0.381	0.00389	0.015	0.00748	0.015	0.00748	0.849	59.4	59.4	
MPS42	8/29/2004	1.1	ND	ND	ND	ND	ND	1.72	24.7	29.5	
MPS43	8/29/2004	1.17	ND	ND	ND	ND	ND	1.54	22.1	22.1	
MPS44	8/30/2004	0.308	ND	ND	ND	ND	ND	1.1	19.7	29.7	
MPS45	8/30/2004	0.61	ND	ND	ND	ND	ND	1.2	25.3	39.4	
MPS4L	8/30/2004	0.782	ND	ND	ND	ND	ND	0.384	27.8	58.5	
MPS4M	8/30/2004	0.521	ND	ND	ND	ND	ND	1.19	20.1	33	
MPSE	8/31/2004		0.00383	0.0147	0.00737	0.0147	0.00737	0.21			
MPSEM	8/31/2004	0.632							41.7	45.9	
MPSEU	7/22/2005	0.93	ND	ND	ND	ND	ND	ND	23	120	2.3
MWGI	8/30/2004	0.461									

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MPS41	38228 38229										
MPS42	8/29/2004										
MPS43	8/29/2004										
MPS44	8/30/2004										
MPS45	8/30/2004										
MPS4L	8/30/2004										
MPS4M	8/30/2004										
MPSE	8/31/2004										
MPSEM	8/31/2004										
MPSEU	7/22/2005	ND	ND	ND	0.29	ND	ND	0.39	ND	0.7	ND
MWGI	8/30/2004										

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MPS41	38228 38229							
MPS42	8/29/2004							
MPS43	8/29/2004							
MPS44	8/30/2004							
MPS45	8/30/2004							
MPS4L	8/30/2004							
MPS4M	8/30/2004							
MPSE	8/31/2004							
MPSEM	8/31/2004							
MPSEU	7/22/2005	0.69	0.68	0.47	ND	4.1	2.1	0.95
MWGI	8/30/2004							

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µg/Kg microgram per kilogram
ND not detected above method reporting limit