Berth 103 Stage 2 Dredging - Water Pollutant Monitoring

Site TB1 South of Berth 104
Easting 306520
Northing 6182583

Parameter	Units	LOR	Baseline 14/05/2015	20/05/2015	26/05/2015	Dredging 23/06/2015	4/07/2015	10/07/2015	22/07/2015	29/07/2015	5/08/2015	8/10/2015	13/10/2015	20/10/2015	27/10/2015	3/11/2015
Metals																
Aluminium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	0.014	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.02	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	mg/L	0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Iron	mg/L	0.05	<0.50	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of PAHs	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Organotin Compounds																
Tributyltin	ngSn/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Berth 103 Stage 2 Dredging - Water Pollutant Monitoring

Site TB2 NW of OHDSCA
Easting 307825
Northing 6183604

			Baseline			Dredging										
Parameter	**Units**	**LOR**	**14/05/2015**	**20/05/2015**	**26/05/2015**	**23/06/2015**	**4/07/2015**	**10/07/2015**	**22/07/2015**	**29/07/2015**	**5/08/2015**	**8/10/2015**	**13/10/2015**	**20/10/2015**	**27/10/2015**	**3/11/2015**
Metals																
Aluminium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.001	<0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.02	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	mg/L	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	mg/L	0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	0.092	<0.050	<0.050	<0.050	<0.050	<0.050
Iron	mg/L	0.05	<0.50	<0.10	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	0.11	<0.50	<0.50	<0.10	<0.10	<0.10
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of PAHs	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Organotin Compounds																
Tributyltin	ngSn/L	2	<2	<2	<2	<2	<2	<2	<2	<3	<2	<2	<2	<2	<3	<2

Berth 103 Stage 2 Dredging - Water Pollutant Monitoring

Site TB3 East of OHDSCA
Easting 308172
Northing 6183450

Parameter	Units	LOR	Baseline 14/05/2015	20/05/2015	26/05/2015	Dredging 23/06/2015	4/07/2015	10/07/2015	22/07/2015	29/07/2015	5/08/2015	8/10/2015	13/10/2015	20/10/2015	27/10/2015	3/11/2015
Metals																
Aluminium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	0.004	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	0.0001	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.001	<0.010	0.002	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	0.02	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	mg/L	0.005	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Iron	mg/L	0.05	<0.50	<0.05	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.10	<0.50	<0.50	<0.10	<0.10	<0.10
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of PAHs	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Organotin Compounds																
Tributyltin	ngSn/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Berth 103 Stage 2 Dredging - Water Pollutant Monitoring

Site **TB4 Background Northern Breakwater**
Easting 307991
Northing 6184286

			Baseline			Dredging										
Parameter	**Units**	**LOR**	**14/05/2015**	**20/05/2015**	**26/05/2015**	**23/06/2015**	**4/07/2015**	**10/07/2015**	**22/07/2015**	**29/07/2015**	**5/08/2015**	**8/10/2015**	**13/10/2015**	**20/10/2015**	**27/10/2015**	**3/11/2015**
Metals																
Aluminium	mg/L	0.01	<0.10	0.02	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	0.004	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	0.0001	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.001	<0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	mg/L	0.005	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Iron	mg/L	0.05	<0.50	<0.05	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.10	<0.50	<0.50	<0.10	<0.10	<0.10
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of PAHs	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Organotin Compounds																
Tributyltin	ngSn/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2

Berth 103 Stage 2 Dredging - Water Pollutant Monitoring

Site TB5 Background N of Tug Berth Cut
Easting 306795
Northing 6184439

			Baseline			Dredging										
Parameter	**Units**	**LOR**	**14/05/2015**	**20/05/2015**	**26/05/2015**	**23/06/2015**	**4/07/2015**	**10/07/2015**	**22/07/2015**	**29/07/2015**	**5/08/2015**	**8/10/2015**	**13/10/2015**	**20/10/2015**	**27/10/2015**	**3/11/2015**
Metals																
Aluminium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Antimony	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	0.003	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	0.0001	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.001	<0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cobalt	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Copper	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Lead	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nickel	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Selenium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	0.02	0.11	<0.10	<0.10	<0.10	<0.10	<0.10
Silver	mg/L	0.001	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.001	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Vanadium	mg/L	0.01	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.01	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	mg/L	0.005	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.005	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Iron	mg/L	0.05	<0.50	<0.05	<0.10	<0.10	<0.05	<0.05	<0.10	<0.05	<0.10	<0.50	<0.50	<0.10	<0.10	<0.10
Mercury	mg/L	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Polynuclear Aromatic Hydrocarbons (PAHs)																
Naphthalene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Acenaphthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Phenanthrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(b+j)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(k)fluoranthene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(a)pyrene	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Indeno(1.2.3.cd)pyrene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a.h)anthracene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzo(g.h.i)perylene	µg/L	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Sum of PAHs	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ (zero)	µg/L	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Organotin Compounds																
Tributyltin	ngSn/L	2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2