

BHID	Units	Criteria	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507
Date sampled			23/04/2020	23/04/2020	23/04/2020	27/05/2020	27/05/2020	27/05/2020	11/06/2020	11/06/2020	11/06/2020	25/06/2020	25/06/2020	25/06/2020	10/07/2020	10/07/2020	10/07/2020	23/07/2020	23/07/2020	23/07/2020	10/08/2020	10/08/2020	10/08/2020	20/08/2020	20/08/2020
mAOD		-																							
DTW		-	1	-	Cant locate	1.01	0.9	Cant locate	1	0.87	Cant locate	0.86	0.82	Cant locate	-	0.84	Cant locate	-	-	Cant locate	Dry	Decomissioned	Cant locate	Dry	Decomissioned
DTB		-	1.13	-	-	1.14	1.56	-	1.14	1.54	-	1.14	1.54	-	-	1.54	-	-	-	-	1.14	-	-	1.14	-
NAPL present?		N	N	-	-	N	N	-	N	N	-	N	N	-	-	N	-	-	-	-	N	-	-	N	-
NAPL thickness		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DO		139	-	-	-	-	4.9	-	-	-	-	-	-	-	-	10.2	-	-	-	-	-	-	-	-	-
pH		8.6	-	-	-	-	6.37	-	-	-	-	-	-	-	-	6.34	-	-	-	-	-	-	-	-	-
Temp		20.6	-	-	-	-	15.9	-	-	-	-	-	-	-	-	16.8	-	-	-	-	-	-	-	-	-
EC		N/A	-	-	-	-	6641	-	-	-	-	-	-	-	-	6798	-	-	-	-	-	-	-	-	-
Redox(orp)		580	-	-	-	-	-119.4	-	-	-	-	-	-	-	-	-157.1	-	-	-	-	-	-	-	-	-
Turbidity (TDS)		88	-	-	-	-	4322.5	-	-	-	-	-	-	-	-	4413	-	-	-	-	-	-	-	-	-
Comments																									
Lab Report Ref No.							20-11443																		
Total Cyanide (Low Level 1 µg/l)	µg/l	38.5					280.00									570.00									
Free Cyanide (Low Level 1 µg/l)	µg/l	2.2					12.00									12.00									
Sulphate as SO4	µg/l	4477					4180.00									2720.00									
Sulphide	mg/l	5					< 5.0									< 5.0									
Ammonia as NH3	µg/l	2420					510000.00									570000.00									
Total Suspended Solids	µg/l																								
Total Phenols (monohydric)	µg/l	10					< 10									< 10									
Naphthalene	µg/l	0.01					< 0.01									< 0.01									
Acenaphthylene	µg/l	0.01					< 0.01									< 0.01									
Acenaphthene	µg/l	0.01					< 0.01									< 0.01									
Fluorene	µg/l	0.01					< 0.01									< 0.01									
Phenanthrene	µg/l	0.01					< 0.01									< 0.01									
Anthracene	µg/l	0.01					< 0.01									< 0.01									
Fluoranthene	µg/l	0.01					< 0.01									< 0.01									
Pyrene	µg/l	0.01					< 0.01									< 0.01									
Benzo(a)anthracene	µg/l	0.01					< 0.01									< 0.01									
Chrysene	µg/l	0.01					< 0.01									< 0.01									
Benzo(b)fluoranthene	µg/l	0.01					< 0.01									< 0.01									
Benzo(k)fluoranthene	µg/l	0.01					< 0.01									< 0.01									
Benzo(a)pyrene	µg/l	0.01					< 0.01									< 0.01									
Indeno(1,2,3-cd)pyrene	µg/l	0.01					< 0.01									< 0.01									
Dibenz(a,h)anthracene	µg/l	0.01					< 0.01									< 0.01									
Benzo(ghi)perylene	µg/l	0.01					< 0.01									< 0.01									
Total EPA-16 PAHs	µg/l	0.16					< 0.16									< 0.16									
Arsenic (dissolved)	µg/l	3.92					1									6.33									
Cadmium (dissolved)	µg/l	0.08					0.03									0.02									
Chromium (hexavalent)	µg/l	5					< 5.0									< 5.0									
Chromium (III)	µg/l	2.75					< 1.0									< 1.0									
Chromium (dissolved)	µg/l						< 0.2									0.70									
Copper (dissolved)	µg/l	7					0.8									7.40									
Lead (dissolved)	µg/l	6					< 0.2									0.60									
Mercury (dissolved)	µg/l	0.66					< 0.05									< 0.05									
Nickel (dissolved)	µg/l	21					10									3.9									
Selenium (dissolved)	µg/l	26.4					15									2.9									
Zinc (dissolved)	µg/l	47.3					3.5									48									
Monoaromatics & Oxygenates							0																		
Benzene	µg/l	1					< 1.0									< 1.0									
Toluene	µg/l	1					< 1.0									< 1.0									
Ethylbenzene	µg/l	1					< 1.0									< 1.0									
p & m-xylene	µg/l	1					< 1.0									< 1.0									
o-xylene	µg/l	1					< 1.0									< 1.0									
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1					< 1.0									< 1.0									
Petroleum Hydrocarbons							0																		
TPH-CWG - Aliphatic >C5 - C6	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aliphatic >C6 - C8	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aliphatic >C8 - C10	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aliphatic >C10 - C12	µg/l	10					< 10									< 10									
TPH-CWG - Aliphatic >C12 - C16	µg/l	10					< 10									< 10									
TPH-CWG - Aliphatic >C16 - C21	µg/l	10					< 10									< 10									
TPH-CWG - Aliphatic >C21 - C35	µg/l	10					< 10									< 10									
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10					< 10									< 10									
TPH-CWG - Aromatic >C5 - C7	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aromatic >C7 - C8	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aromatic >C8 - C10	µg/l	1					< 1.0									< 1.0									
TPH-CWG - Aromatic >C10 - C12	µg/l	10					< 10									< 10									
TPH-CWG - Aromatic >C12 - C16	µg/l	10					< 10									50									
TPH-CWG - Aromatic >C16 - C21	µg/l	10					< 10									130									
TPH-CWG - Aromatic >C21 - C35	µg/l	10					< 10									< 10									
TPH-CWG - Aromatic (C5 - C35)	µg/l	10					< 10									180									

*U/S due to high variances between chromium (hexavalent) and chromium (dissolved) caused by method differences

BHID	Units	Criteria	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS507	WS511	WS506	WS508	WS506	WS508	WS506	WS508
Date sampled			03/09/2020	16/09/2020	16/09/2020	16/09/2020	23/09/2020	23/09/2020	23/09/2020	01/10/2020	01/10/2020	01/10/2020	08/10/2020	08/10/2020	08/10/2020	15/10/2020	15/10/2020	15/10/2020	25/11/2020	25/11/2020	25/11/2020	14/12/2020	14/12/2020	29/01/2021	29/01/2021	19/02/2021	19/02/2021
mAOD		-			-	-		-	-	tbcbtc	-	-	tbcbtc	-	-	tbcbtc	-	-	tbcbtc	-	-						
DTW		-	Cant locate	Dry	Decomissioned	Cant locate	1	-	Cant locate	0.82	Decomissioned	Cant locate	1	Decomissioned	Cant locate	0.9	Decomissioned	Cant locate	0.81	Decomissioned	Lost	Pumped Dry	Dry	Pumped Dry	Dry	Pumped Dry	Dry
DTB		-	-	1.14	-	-	1.14	-	-	1.14	-	-	1.14	-	-	1.14	-	-	1.14	-	-	1.14	1.74	1.14	1.74	1.14	1.74
NAPL present?		N	-	N	-	-	N	-	-	N	-	-	N	-	-	N	-	-	N	-	-	N	N	N	N	N	N
NAPL thickness		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DO		139	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH		8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Temp		20.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EC		N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Redox(orp)		580	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity (TDS)		88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Comments																											
Lab Report Ref No.																											
Total Cyanide (Low Level 1 µg/l)	µg/l	38.5																									
Free Cyanide (Low Level 1 µg/l)	µg/l	2.2																									
Sulphate as SO4	µg/l	4477																									
Sulphide	mg/l	5																									
Ammonia as NH3	µg/l	2420																									
Total Suspended Solids	µg/l																										
Total Phenols (monohydric)	µg/l	10																									
Naphthalene	µg/l	0.01																									
Acenaphthylene	µg/l	0.01																									
Acenaphthene	µg/l	0.01																									
Fluorene	µg/l	0.01																									
Phenanthrene	µg/l	0.01																									
Anthracene	µg/l	0.01																									
Fluoranthene	µg/l	0.01																									
Pyrene	µg/l	0.01																									
Benzo(a)anthracene	µg/l	0.01																									
Chrysene	µg/l	0.01																									
Benzo(b)fluoranthene	µg/l	0.01																									
Benzo(k)fluoranthene	µg/l	0.01																									
Benzo(a)pyrene	µg/l	0.01																									
Indeno(1,2,3-cd)pyrene	µg/l	0.01																									
Dibenz(a,h)anthracene	µg/l	0.01																									
Benzo(ghi)perylene	µg/l	0.01																									
Total EPA-16 PAHs	µg/l	0.16																									
Arsenic (dissolved)	µg/l	3.92																									
Cadmium (dissolved)	µg/l	0.08																									
Chromium (hexavalent)	µg/l	5																									
Chromium (III)	µg/l	2.75																									
Chromium (dissolved)	µg/l																										
Copper (dissolved)	µg/l	7																									
Lead (dissolved)	µg/l	6																									
Mercury (dissolved)	µg/l	0.66																									
Nickel (dissolved)	µg/l	21																									
Selenium (dissolved)	µg/l	26.4																									
Zinc (dissolved)	µg/l	47.3																									
Monoaromatics & Oxygenates																											
Benzene	µg/l	1																									
Toluene	µg/l	1																									
Ethylbenzene	µg/l	1																									
p & m-xylene	µg/l	1																									
o-xylene	µg/l	1																									
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1																									
Petroleum Hydrocarbons																											
TPH-CWG - Aliphatic >C5 - C6	µg/l	1																									
TPH-CWG - Aliphatic >C6 - C8	µg/l	1																									
TPH-CWG - Aliphatic >C8 - C10	µg/l	1																									
TPH-CWG - Aliphatic >C10 - C12	µg/l	10																									
TPH-CWG - Aliphatic >C12 - C16	µg/l	10																									
TPH-CWG - Aliphatic >C16 - C21	µg/l	10																									
TPH-CWG - Aliphatic >C21 - C35	µg/l	10																									
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10																									
TPH-CWG - Aromatic >C5 - C7	µg/l	1																									
TPH-CWG - Aromatic >C7 - C8	µg/l	1																									
TPH-CWG - Aromatic >C8 - C10	µg/l	1																									
TPH-CWG - Aromatic >C10 - C12	µg/l	10																									
TPH-CWG - Aromatic >C12 - C16	µg/l	10																									
TPH-CWG - Aromatic >C16 - C21	µg/l	10																									
TPH-CWG - Aromatic >C21 - C35	µg/l	10																									

*U/S due to high variances between chromium (hexavalent) and chromium (dissolved) caused by method differences

BHID	Units	Criteria	WS506 25/03/2021	WS508 25/03/2021	WS506 30/04/2021	WS508 30/04/2021	WS506 20/05/2021	WS508 20/05/2021	WS506 22/06/2021	WS508 22/06/2021	WS506 22/06/2021	WS508 22/06/2021	WS506 27/07/2021	WS508 27/07/2021	WS506 17/08/2021	WS508 17/08/2021	WS506 15/09/2021	WS508 15/09/2021	WS506 22/10/2021	WS508 22/10/2021	WS506 10/11/2021	WS508 10/11/2021	BH21-03 10/11/2021	BH21-01 10/11/2021	BH21-02 10/11/2021	WS506 19/11/2021
Date sampled		-																								
mAOD		-																								
DTW		-	Pumped Dry	Dry	Pumped Dry	Dry	Pumped Dry	Dry	Pumped Dry	Dry	0.84	Dry	0.79	Dry	0.83	Dry	0.66	Dry	0.75	Dry	0.83	Dry	Dry	Dry	Dry	0.96
DTB		-	1.14	1.74	1.14	1.74	1.14	1.74	1.14	1.74	1.14	1.74	1.14	1.74	1.12	1.74	1.12	1.74	1.16		1.14	1.74	1.04	1.2	1.2	1.13
NAPL present?		N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
NAPL thickness		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DO		139									58.4		18.8		5.4		40		17.7		23.7	-	-	-	-	35.8
pH		8.6									12.21		12.26		12.08		11.91		-2.04		11.87	-	-	-	-	11.87
Temp		20.6									16.8		19.9		18		18.3		14.3		12.3	-	-	-	-	12.4
EC		N/A									4117		3583		3788		2332		1702		1660	-	-	-	-	1779
Redox(orp)		580									-17.7		-315.4		-222.8		-142.9		999.4		56.2	-	-	-	-	
Turbidity (TDS)		88									2678		2774		2463		1508		1105		1079	-	-	-	-	1170
											Pumped dry, sample obtained prior to stabilisation of water quality parameters	No water, very sludgy at base	Pumped dry, sample obtained prior to stabilisation of water quality parameters	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters	Dry	Possibly BH21-03?	Very sludgy base - ~50cm	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters
Comments																										
Lab Report Ref No.											21-82537	-	21-89207	-	21-93347	-	21-10039	-	21-18170	-	21-22219	-	-	-	-	21-24316
Total Cyanide (Low Level 1 µg/l)	µg/l	38.5									17	-	28	-	17	-	34	-	79	-	120					130
Free Cyanide (Low Level 1 µg/l)	µg/l	2.2									1.1	-	2.2	-	< 1.0	-	< 1.0	-	1.1	-	< 1.0					< 1.0
Sulphate as SO4	µg/l	4477									51.1	-	27.5	-	33	-	45.3	-	99.9	-	101					132
Sulphide	mg/l	5									< 5.0	-	< 5.0	-	17	-	< 5.0	-	< 5.0	-	< 5.0					< 5.0
Ammonia as NH3	µg/l	2420									2300	-	2800	-	3100	-	4500	-	1900	-	2400					4700
Total Suspended Solids	µg/l																									
Total Phenols (monohydric)	µg/l	10									49	-	54	-	58	-	33	-	< 10	-	< 10					< 10
Naphthalene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Acenaphthylene	µg/l	< 0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Acenaphthene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Fluorene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Phenanthrene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Anthracene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Fluoranthene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Pyrene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Benzo(a)anthracene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Chrysene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Benzo(b)fluoranthene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Benzo(k)fluoranthene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Benzo(a)pyrene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Dibenz(a,h)anthracene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Benzo(ghi)perylene	µg/l	0.01									< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01	-	< 0.01					< 0.01
Total EPA-16 PAHs	µg/l	0.16									< 0.16	-	< 0.16	-	< 0.16	-	< 0.16	-	< 0.16	-	< 0.16					< 0.16
Arsenic (dissolved)	µg/l	3.92									3.11	-	2.58	-	2.4	-	5.75	-	12.6	-	7.65					7.64
Cadmium (dissolved)	µg/l	0.08									0.04	-	0.03	-	0.02	-	0.03	-	0.02	-	0.04					0.04
Chromium (hexavalent)	µg/l	5									7	-	< 5.0	-	< 5.0	-	U/S*	-	17	-	U/S*					< 5.0
Chromium (III)	µg/l	2.75									5.7	-	6.1	-	2.1	-	U/S*	-	2.5	-	U/S*					11
Chromium (dissolved)	µg/l	13									13	-	6.1	-	2.1	-	8.6	-	20	-	13					11
Copper (dissolved)	µg/l	7									18	-	9.8	-	7.9	-	7	-	17	-	24					35
Lead (dissolved)	µg/l	6									0.9	-	0.4	-	0.3	-	0.3	-	0.3	-	0.4					0.5
Mercury (dissolved)	µg/l	0.66									0.17	-	< 0.05	-	0.1	-	0.26	-	< 0.05	-	0.08					< 0.05
Nickel (dissolved)	µg/l	21									11	-	12	-	11	-	11	-	11	-	15					19
Selenium (dissolved)	µg/l	26.4									19	-	15	-	14	-	13	-	21	-	21					23
Zinc (dissolved)	µg/l	47.3									0.9	-	5.3	-	2.4	-	< 0.5	-	1.1	-	5.3					1.4
Monoaromatics & Oxygenates																										
Benzene	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
Toluene	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
Ethylbenzene	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
p & m-xylene	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
o-xylene	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
Petroleum Hydrocarbons																										
TPH-CWG - Aliphatic >C5 - C6	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
TPH-CWG - Aliphatic >C6 - C8	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
TPH-CWG - Aliphatic >C8 - C10	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
TPH-CWG - Aliphatic >C10 - C12	µg/l	10									< 10	-	< 10	-	< 10	-	< 10	-	< 10	-	< 10					< 10
TPH-CWG - Aliphatic >C12 - C16	µg/l	10									< 10	-	< 10	-	< 10	-	< 10	-	< 10	-	< 10					< 10
TPH-CWG - Aliphatic >C16 - C21	µg/l	10									< 10	-	< 10	-	< 10	-	< 10	-	< 10	-	< 10					< 10
TPH-CWG - Aliphatic >C21 - C35	µg/l	10									< 10	-	< 10	-	< 10	-	< 10	-	< 10	-	< 10					< 10
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10									< 10	-	< 10	-	< 10	-	< 10	-	< 10	-	< 10					< 10
TPH-CWG - Aromatic >C5 - C7	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
TPH-CWG - Aromatic >C7 - C8	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	< 1.0					< 1.0
TPH-CWG - Aromatic >C8 - C10	µg/l	1									< 1.0	-	< 1.0	-	< 1.0	-	< 1.0	-	&							

BHID	Units	Criteria	WS508	BH21-03	BH21-01	BH21-02	WS506	WS508	BH21-03	WS07	WS506	WS508	WS07	BH21-03	WS506	WS508	WS506	WS508	WS506	WS508	WS506	WS508	WS506	WS508	WS506	WS508	WS506	WS508
Date sampled			19/11/2021	19/11/2021	19/11/2021	19/11/2021	26/11/2021	26/11/2021	26/11/2021	29/11/2021	02/12/2021	02/12/2021	02/12/2021	02/12/2021	10/12/2021	10/12/2021	16/12/2021	16/12/2021	21/12/2021	21/12/2021	05/01/2022	05/01/2022	12/01/2022	12/01/2022	19/01/2022	19/01/2022	26/01/2022	
mAOD		-									24.803	25.234																
DTW		-	Dry	-	-	-	1	Dry	Dry	Dry	0.84	Dry	-	-	0.73	Dry	0.8	Dry	0.95	Dry	0.74	Dry	0.79	Dry	0.71	Dry	0.99	
DTB		-	1.74	-	-	-	1.12	1.74	1	1.93	1.114	1.74	-	-	1.12	1.74	1.12	1.74	1.12	1.74	1.12	1.74	1.12	1.74	1.12	1.74	1.12	
NAPL present?		N	N	-	-	-	-	N	N	N	N	N	-	-	N	N	N	N	N	N	N	N	N	N	N	N	N	
NAPL thickness		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DO		139	-	-	-	-	-	-	-	-	22.3	-	-	-	27.8	-	30.2	-	37.4	-	29.7	-	52.9	-	50.7	-	-	
pH		8.6	-	-	-	-	-	-	-	-	11.15	-	-	-	9.84	-	11.42	-	10.99	-	10.99	-	11.84	-	12.15	-	-	
Temp		20.6	-	-	-	-	-	-	-	-	9.1	-	-	-	8.2	-	9.5	-	9.5	-	8	-	8.1	-	7.8	-	-	
EC		N/A	-	-	-	-	-	-	-	-	1019	-	-	-	1349	-	1385	-	1654	-	1564	-	1315	-	1630	-	-	
Redox(orp)		580	-	-	-	-	-	-	-	-	18.8	-	-	-	73.1	-	16.2	-	-20.3	-	53.3	-	14.5	-	-34.5	-	-	
Turbidity (TDS)		88	-	-	-	-	-	-	-	-	662	-	-	-	877	-	900	-	1075	-	1007	-	855	-	1059	-	-	
					Decommissioned (fully excavated 17/11/21)	Decommissioned (fully excavated 17/11/21)	Pumped dry - insufficient to sample		Dry	Dry	Pumped dry, sample obtained prior to stabilisation of water quality parameters		Decommissioned (fully excavated 30/11/21)	Decommissioned (fully excavated 30/11/21)	Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry, sample obtained prior to stabilisation of water quality parameters		Pumped dry - insufficient to sample	
Comments			Dry	Inaccessible																								
Lab Report Ref No.			-	-	-	-	-	-	-	-	21-28144	-	-	-	21-28597	-	21-29816	-	21-30648	-	22-31440		22-32603		22-34214			
Total Cyanide (Low Level 1 µg/l)	µg/l	38.5									91				87		80		97		59		44		42			
Free Cyanide (Low Level 1 µg/l)	µg/l	2.2									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
Sulphate as SO4	µg/l	4477									124				177		165		101		84.8		68		62.9			
Sulphide	mg/l	5									< 5.0				< 5.0		< 5.0		< 5.0		< 5.0		< 5.0		< 5.0			
Ammonia as NH3	µg/l	2420									2000				630		1300		2400		1400		1000		1800			
Total Suspended Solids	µg/l																											
Total Phenols (monohydric)	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
Naphthalene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Acenaphthylene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Acenaphthene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Fluorene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Phenanthrene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Anthracene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Fluoranthene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Pyrene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Benzo(a)anthracene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Chrysene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Benzo(b)fluoranthene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Benzo(k)fluoranthene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Benzo(a)pyrene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Indeno(1,2,3-cd)pyrene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Dibenz(a,h)anthracene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Benzo(ghi)perylene	µg/l	0.01									< 0.01				< 0.01		< 0.01		< 0.01		< 0.01		< 0.01		< 0.01			
Total EPA-16 PAHs	µg/l	0.16									< 0.16				< 0.16		< 0.16		< 0.16		< 0.16		< 0.16		< 0.16			
Arsenic (dissolved)	µg/l	3.92									17.3				16.2		14		12.7		14.2		6.56		5.68			
Cadmium (dissolved)	µg/l	0.08									0.02				0.03		0.03		0.04		0.03		< 0.02		0.03			
Chromium (hexavalent)	µg/l	5									U/S*				29		U/S*		11		U/S*		27		< 5.0			
Chromium (III)	µg/l	2.75									U/S*				< 5.0		U/S*		9.8		U/S*		< 5.0		17			
Chromium (dissolved)	µg/l										25				25		31		20		23		21		17			
Copper (dissolved)	µg/l	7									32				13		17		26		19		14		18			
Lead (dissolved)	µg/l	6									0.5				0.4		1.4		0.2		0.3		< 0.2		< 0.2			
Mercury (dissolved)	µg/l	0.66									< 0.05				< 0.05		< 0.05		0.06		< 0.05		< 0.05		< 0.05			
Nickel (dissolved)	µg/l	21									12				7.3		9.7		13		5.9		5.1		6.9			
Selenium (dissolved)	µg/l	26.4									11				15		23		18		19		14		13			
Zinc (dissolved)	µg/l	47.3									3.4				2.8		1		1.6		1.5		1.1		3.9			
Monoaromatics & Oxygenates																												
Benzene	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
Toluene	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
Ethylbenzene	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
p & m-xylene	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
o-xylene	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
Petroleum Hydrocarbons																												
TPH-CWG - Aliphatic >C5 - C6	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
TPH-CWG - Aliphatic >C6 - C8	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
TPH-CWG - Aliphatic >C8 - C10	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
TPH-CWG - Aliphatic >C10 - C12	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
TPH-CWG - Aliphatic >C12 - C16	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
TPH-CWG - Aliphatic >C16 - C21	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
TPH-CWG - Aliphatic >C21 - C35	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10									< 10				< 10		< 10		< 10		< 10		< 10		< 10			
TPH-CWG - Aromatic >C5 - C7	µg/l	1									< 1.0				< 1.0		< 1.0		< 1.0		< 1.0		< 1.0		< 1.0			
TPH-CWG - Aromatic >C7 - C8	µg/l	1									< 1.0				< 1.0		< 1.0		<									

BHID	Units	Criteria	WS508	WS506	WS508	WS506	WS508	WS506	WS508
Date sampled			26/01/2022	02/02/2022	02/02/2022	09/02/2022	09/02/2022	16/02/2022	16/02/2022
mAOD		-							
DTW		-	Dry	1.08	Dry	0.75	Dry	0.71	Dry
DTB		-	1.74	1.12	1.74	1.12	1.74	1.12	1.74
NAPL present?		N	N	N	N	N	N	N	N
NAPL thickness		-	-	-	-	-	-	-	-
DO		139	-	-	-	53.8	-	51.7	-
pH		8.6	-	-	-	11.92	-	11.87	-
Temp		20.6	-	-	-	8	-	7.9	-
EC		N/A	-	-	-	1634	-	1642	-
Redox(orp)		580	-	-	-	22.5	-	36.1	-
Turbidity (TDS)		88	-	-	-	900	-	1049	-
						Pumped dry, sample obtained		Pumped dry, sample obtained	
Comments			Dry	Pumped dry - insufficient to sample	Dry	prior to stabilisation of water quality parameters	Dry	prior to stabilisation of water quality parameters	Dry
Lab Report Ref No.						22-39008		22-40456	
Total Cyanide (Low Level 1 µg/l)	µg/l	38.5				77		66	
Free Cyanide (Low Level 1 µg/l)	µg/l	2.2				< 1.0		< 1.0	
Sulphate as SO4	µg/l	4477				157		182	
Sulphide	mg/l	5				< 5.0		< 5.0	
Ammonia as NH3	µg/l	2420				530		440	
Total Suspended Solids	µg/l					70		20	
Total Phenols (monohydric)	µg/l	10				< 10		< 0.01	
								< 0.01	
Naphthalene	µg/l	0.01				< 0.01		< 0.01	
Acenaphthylene	µg/l	0.01				< 0.01		< 0.01	
Acenaphthene	µg/l	0.01				< 0.01		< 0.01	
Fluorene	µg/l	0.01				< 0.01		< 0.01	
Phenanthrene	µg/l	0.01				< 0.01		< 0.01	
Anthracene	µg/l	0.01				< 0.01		< 0.01	
Fluoranthene	µg/l	0.01				< 0.01		< 0.01	
Pyrene	µg/l	0.01				< 0.01		< 0.01	
Benzo(a)anthracene	µg/l	0.01				< 0.01		< 0.01	
Chrysene	µg/l	0.01				< 0.01		< 0.01	
Benzo(b)fluoranthene	µg/l	0.01				< 0.01		< 0.01	
Benzo(k)fluoranthene	µg/l	0.01				< 0.01		< 0.01	
Benzo(a)pyrene	µg/l	0.01				< 0.01		< 0.01	
Indeno(1,2,3-cd)pyrene	µg/l	0.01				< 0.01		< 0.01	
Dibenz(a,h)anthracene	µg/l	0.01				< 0.01		< 0.01	
Benzo(ghi)perylene	µg/l	0.01				< 0.01		< 0.01	
Total EPA-16 PAHs	µg/l	0.16				< 0.16		< 0.16	
Arsenic (dissolved)	µg/l	3.92				16.8		22.5	
Cadmium (dissolved)	µg/l	0.08				0.03		0.03	
Chromium (hexavalent)	µg/l	5				30		49	
Chromium (III)	µg/l	2.75				< 5.0		< 5.0	
Chromium (dissolved)	µg/l					28		40	
Copper (dissolved)	µg/l	7				25		24	
Lead (dissolved)	µg/l	6				0.4		0.6	
Mercury (dissolved)	µg/l	0.66				< 0.05		< 0.05	
Nickel (dissolved)	µg/l	21				10		9.2	
Selenium (dissolved)	µg/l	26.4				14		23	
Zinc (dissolved)	µg/l	47.3				8.8		4.9	
Monoaromatics & Oxygenates									
Benzene	µg/l	1				< 1.0		< 1.0	
Toluene	µg/l	1				< 1.0		< 1.0	
Ethylbenzene	µg/l	1				< 1.0		< 1.0	
p & m-xylene	µg/l	1				< 1.0		< 1.0	
o-xylene	µg/l	1				< 1.0		< 1.0	
MTBE (Methyl Tertiary Butyl Ether)	µg/l	1				< 1.0		< 1.0	
Petroleum Hydrocarbons									
TPH-CWG - Aliphatic >C5 - C6	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aliphatic >C6 - C8	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aliphatic >C8 - C10	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aliphatic >C10 - C12	µg/l	10				< 10		< 10	
TPH-CWG - Aliphatic >C12 - C16	µg/l	10				< 10		< 10	
TPH-CWG - Aliphatic >C16 - C21	µg/l	10				< 10		< 10	
TPH-CWG - Aliphatic >C21 - C35	µg/l	10				< 10		< 10	
TPH-CWG - Aliphatic (C5 - C35)	µg/l	10				< 10		< 10	
TPH-CWG - Aromatic >C5 - C7	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aromatic >C7 - C8	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aromatic >C8 - C10	µg/l	1				< 1.0		< 1.0	
TPH-CWG - Aromatic >C10 - C12	µg/l	10				< 10		< 10	
TPH-CWG - Aromatic >C12 - C16	µg/l	10				< 10		< 10	
TPH-CWG - Aromatic >C16 - C21	µg/l	10				< 10		< 10	
TPH-CWG - Aromatic >C21 - C35	µg/l	10				< 10		< 10	
TPH-CWG - Aromatic (C5 - C35)	µg/l	10				< 10		< 10	

*U/S due to high variances between chromium (hexavalent) and chromium (dissolved) caused by method differences