

Checked by Joe Gomme, 23/1/26

Checked copy/pasted concentrations from Material Tracking tab to SVS checks tab. No errors found

Checked copy/pasted SVS concentrations from Chemical Summary file to SVS checks tab. No errors found

Checked formulae used for stats calculations. No errors found

Checked ranges applied for all stats formulae. Some errors corrected for sign-off areas 17, 21 and 25 (ra

Checked transposition of results from excel sheet to report document - updated results where range eri

nd

range too extended for mean and UCL calcs)
errors referred to above affected calculated values

Average Grid Sample (Representative Sample to grid)

Highlighted data (green, blue, red) indicate CoC that required additional review

Sign Off Area 5 - 05/10/22 - S13, S14 + T13, T14 (SV11)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		R14	1.00	0.35	0.25
Layer 5 - 300		S14	1.00	1.65	1.05
Layer 4 - 300		S14	1.00	1.65	1.05
Layer 3 - 300		R14	1.00	0.35	0.25
Layer 2 - 300		W213	1.18	5.25	4.18
Layer 1 - 300		W213	1.18	5.25	4.18
Clay Level	4.55				
Backfill Mean value			1.061	2.414	1.826
Student 95%UCL			0.091	2.174	1.781
backfill UCLmean			1.152	4.588	3.607
Mean + Normal 95%UCL			1.137	4.229	3.313
SV (conc)				9.300	5.300
Backfill zone thickness (m)	1.8				
backfill and validation mean				2.776	2.009
Weighted UCL combined				2.174	1.781
Weighted UCLmean				4.950	3.790

Sign Off Area 8 - 12/10/2022 - R11, R12 (SV3)		
Layer Thickness (mm)	Level (mAOD)	Source
Layer 5 - 300		Q12
Layer 4 - 300		Q11
Layer 3 - 300		W53
Layer 2 - 300		Q11
Layer 1 - 300		Q11
Clay Level	3.54	
Backfill Mean value		
Student 95%UCL		
backfill UCLmean		
Mean + Normal 95%UCL		
SV (conc)		
Backfill zone thickness (m)	1.5	
backfill and validation mean		
Weighted UCL combined		
Weighted UCLmean		

Sign Off Area 9 - 12/10/2022 - U15, U16, U17, U18 (SV15)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		T16 (T15)	1.00	1.65	1.33
Layer 5 - 300		S18	<1	0.53	0.38
Layer 4 - 300		S17	0.50	1.12	0.55
Layer 3 - 300		S18	<1	0.53	0.38
Layer 2 - 300		S17	0.50	1.12	0.55
Layer 1 - 300		R17	0.50	0.41	0.10
Clay Level	3.54				
Backfill Mean value			0.750	0.893	0.547
Student 95%UCL			0.262	0.465	0.400
backfill UCLmean			1.012	1.357	0.947
Mean + Normal 95%UCL			0.969	1.281	0.881
SV (conc)				16.000	9.800
Backfill zone thickness (m)	1.8				
backfill and validation mean				1.689	1.034
Weighted UCL combined				0.465	0.400
Weighted UCLmean				2.153	1.434

Sign Off Area 17 - 07/12/2022 (SV8)		
Layer Thickness (mm)	Level (mAOD)	Source
Layer 5 - 300		S11
Layer 4 - 300		S11
Layer 3 - 300		R11
Layer 2 - 300		W53
Layer 1 - 300		W53
Clay Level	3.54	
Backfill Mean value		
Student 95%UCL		
backfill UCLmean		
Mean + Normal 95%UCL		
SV (conc)		
Backfill zone thickness (m)	1.5	
backfill and validation mean		
Weighted UCL combined		
Weighted UCLmean		

Sign Off Area 11 - 19/10/2022 - R12 + R13 (SV6)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		P10	6.33	4.77	1.93
Layer 4 - 300		Q12	0.60	4.80	3.30
Layer 3 - 300		R140	< 0.50	3.150	3.650
Layer 2 - 300		R140	< 0.50	3.150	3.650
Layer 1 - 300		R140	< 0.50	3.150	3.650
Clay Level	3.54				
Backfill Mean value			1.687	3.803	3.737
Student 95%UCL			2.885	0.994	0.826
backfill UCLmean			4.572	4.797	4.063
Mean + Normal 95%UCL			3.723	4.505	3.820
SV (conc)				13.000	6.300
Backfill zone thickness (m)	1.5				
backfill and validation mean				4.378	3.428
Weighted UCL combined				0.994	0.826
Weighted UCLmean				5.372	4.255

Sign Off Area 21 - 23/02/23 (SV10)		
Layer Thickness (mm)	Level (mAOD)	Source
Layer 5 - 300		Q14
Layer 4 - 300		Q12
Layer 3 - 300		Q12
Layer 2 - 300		Q12
Layer 1 - 300		Q12
Clay Level	3.54	
Backfill Mean value		
Student 95%UCL		
backfill UCLmean		
Mean + Normal 95%UCL		
SV (conc)		
Backfill zone thickness (m)	1.5	
backfill and validation mean		
Weighted UCL combined		
Weighted UCLmean		

Sign Off Area 13 - 21/11/2022 - V13, V14 + V15 (SV12)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		S18	<1	0.530	0.377
Layer 4 - 300		S17	0.500	1.120	0.550
Layer 3 - 300		S18	<1	0.530	0.377
Layer 2 - 300		T17	<0.50	2.300	1.450
Layer 1 - 300		T17	<0.50	2.300	1.450
Clay Level	3.54				
Backfill Mean value			0.700	1.356	0.841
Student 95%UCL			0.304	0.994	0.623
backfill UCLmean			1.004	2.350	1.463
Mean + Normal 95%UCL			0.915	2.057	1.280
SV (conc)				45.000	24.000
Backfill zone thickness (m)	1.5				
backfill and validation mean				4.084	2.288
Weighted UCL combined				0.994	0.623
Weighted UCLmean				5.077	2.911

Sign Off Area 25 - 20/04/23 (SV9)		
Layer Thickness (mm)	Level (mAOD)	Source
Layer 5 - 300		P14
Layer 4 - 300		P15
Layer 3 - 300		Q14/P15
Layer 2 - 300		P14
Layer 1 - 300		Q14
Clay Level	3.54	
Backfill Mean value		
Student 95%UCL		
backfill UCLmean		
Mean + Normal 95%UCL		
SV (conc)		
Backfill zone thickness (m)	1.5	
backfill and validation mean		
Weighted UCL combined		
Weighted UCLmean		

Sign Off Area 15 - 01/12/2022 - V16-18 (SV2)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		Q13 (Q12)	0.60	4.80	3.30
Layer 4 - 300		R15	1.00	6.29	2.47
Layer 3 - 300		R16	<0.50	3.4	2.5
Layer 2 - 300		R16	<0.50	3.4	2.5
Layer 1 - 300		R15	1.00	6.29	2.47
Clay Level	3.54				
Backfill Mean value			0.720	4.835	2.647
Student 95%UCL			0.287	1.603	0.406
backfill UCLmean			1.007	6.438	3.053
Mean + Normal 95%UCL			0.923	5.966	2.933
SV (conc)					4.300
Backfill zone thickness (m)	1.5				
backfill and validation mean				2.7499375	
Weighted UCL combined				0.406077929	
Weighted UCLmean				3.156015429	

Sign Off Area 22 - 28/02/23 (SV5)		
Layer Thickness (mm)	Level (mAOD)	Source
Layer 5 - 300		Q13 (Q12)
Layer 4 - 300		Q11
Layer 3 - 300		Q13
Layer 2 - 300		Q13 (Q12)
Layer 1 - 300		Q12
Clay Level	3.54	
Backfill Mean value		
Student 95%UCL		
backfill UCLmean		
Mean + Normal 95%UCL		
SV (conc)		
Backfill zone thickness (m)	1.5	
backfill and validation mean		
Weighted UCL combined		
Weighted UCLmean		

Sign Off Area 29 - 28/06/2023 (SV16S)					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		U19	1.000	0.130	0.060
Layer 5 - 300		O13	0.500	3.550	0.100
Layer 4 - 300		O13	0.500	3.550	0.100
Layer 3 - 300		Q12	0.750	5.350	0.100
Layer 2 - 300		U14	1.00	0.79	0.54
Layer 1 - 300		U14	1.000	0.791	0.545

Clay Level	3.54				
Backfill Mean value		0.792	2.360	0.242	
Student 95%UCL		0.235	1.994	0.226	
backfill UCLmean		1.027	4.355	0.467	
Mean + Normal 95%UCL		0.988	4.026	0.430	
SV (conc)		5	34.000	18.000	
Backfill zone thickness (m)	1.8				
backfill and validation mean		1.013157895	4.025578947	1.176268421	
Weighted UCL combined		0.235474328	1.9943291	0.225507157	
Weighted UCLmean		1.248632223	6.019908047	1.401775578	

Cyanide (Total)	Fluoranthene	Benzo[b]fluor anthene
0.75	5.350	0.100
0.50	11.25	7.05
2.20	6.85	8.00
0.50	11.25	7.05
0.50	11.25	7.05
0.890	9.190	5.850
0.822	3.188	3.599
5.000	12.378	9.449
1.470	11.440	8.391
5.8	15.000	10.000
1.196875	9.553125	6.109375
0.822127853	3.187571802	3.598898359
2.019002853	12.7406968	9.708273359
1.712	12.378	9.449

Cyanide (Total)	Fluoranthene	Benzo[b]fluor anthene
< 0.50	8.40	4.30
< 0.50	8.40	4.30
3.50	15.00	8.30
2.20	6.85	8.00
2.20	6.85	8.00
1.780	9.100	6.580
1.425	3.763	2.315
3.205	12.863	8.895
2.786	11.756	8.482
	15.000	12.000
	9.46875	6.91875
	3.76267217	2.315495294
	13.23142217	9.234245294

Cyanide (Total)	Fluoranthene	Benzo[b]fluor anthene
0.900	20.000	11.400
0.75	5.35	0.10
0.75	5.35	0.10
0.75	5.35	0.10
0.75	5.35	0.10
0.780	8.280	2.360
0.000	7.276	5.612
0.854	15.556	7.972
0.833	13.416	6.322
	11.000	6.600
	8.45	2.625
	7.276151029	5.612321272
	15.72615103	8.237321272

Cyanide (Total)	Fluoranthene	Benzo[b]fluor anthene
3.65	1.43	0.84
1.00	6.90	3.32
0.95	13.45	7.36
3.65	1.43	0.84
0.90	20.00	11.40
2.028	8.644	4.749
0.000	8.938	5.081
3.668	17.581	9.830
3.186	14.953	8.336
	11.000	6.200
	8.790875	4.83959375
	8.937671463	5.08080555
	17.72854646	9.9203993

Cyanide (Total)	Fluoranthene	Benzo[b]fluor anthene
0.60	4.80	3.30
0.60	9.10	5.83
0.50	3.55	0.10
0.60	4.80	3.30
0.60	4.80	3.30
0.580	5.410	3.167
0.050	2.368	2.260
0.630	7.778	5.427
0.615	7.082	4.762
	9.200	5.600
	5.646875	3.31875
	2.368423222	2.260298411
	8.015298222	5.579048411

Average Grid Sample (Representative Sample to grid)

Sign Off Area 1 - 28/09/22 - T11, T12, U11, U12					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		R13	1.60	8.65	5.35
Layer 5 - 300		R12	3.45	13.1	9.2
Layer 4 - 300		S11	< 0.50	8.40	4.30
Layer 3 - 300		S11	< 0.50	8.4	4.3
Layer 2 - 300		R140	< 0.50	3.15	3.65
Layer 1 - 400		R11	3.5	15	8.3
Clay Level	3.10				
Average Grid Square Concentration			1.675	9.450	5.850
Student 95%UCL			1.397	3.988	2.231
Mean + Student 95%UCL			3.072	13.438	8.081
Mean + Normal 95%UCL			2.842	12.781	7.714

Sign Off Area 3 - 30/09/22 - T13 + U13					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		T14	1.00	0.462	0.3505
Layer 5 - 300		T13	1.00	0.47	0.33
Layer 4 - 300		T13	1.00	0.47	0.33
Layer 3 - 300		T14	1.00	0.462	0.3505
Layer 2 - 300		W213	1.18	5.25	4.18
Layer 1 - 300		W213	1.18	5.25	4.18
Clay Level	4.55				
Average Grid Square Concentration			1.061	2.059	1.621
Student 95%UCL			0.091	2.365	1.900
Mean + Student 95%UCL			1.152	4.424	3.521
Mean + Normal 95%UCL			1.137	4.034	3.208

Sign Off Area 5 - 05/10/22 - S13, S14 + T13, T14					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		R14	1.00	0.35	0.25
Layer 5 - 300		S14	1.00	1.65	1.05
Layer 4 - 300		S14	1.00	1.65	1.05
Layer 3 - 300		R14	1.00	0.35	0.25
Layer 2 - 300		W213	1.18	5.25	4.18
Layer 1 - 300		W213	1.18	5.25	4.18
Clay Level	4.55				
Average Grid Square Concentration			1.061	2.414	1.826
Student 95%UCL			0.091	2.174	1.781
Mean + Student 95%UCL			1.152	4.588	3.607
Mean + Normal 95%UCL			1.137	4.229	3.313

Sign Off Area 7 - 11/10/2022 - R15, T15					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		U16	2.76	4.59	3.03
Layer 4 - 300		U15	1.00	0.82	0.71
Layer 3 - 300		U15	1.00	0.82	0.71
Layer 2 - 300		W53	2.20	6.85	8.00
Layer 1 - 300		W213	1.18	5.25	4.18
Clay Level	3.54				
Average Grid Square Concentration			1.629	3.664	3.326
Student 95%UCL			0.894	3.025	3.348
Mean + Student 95%UCL			2.523	6.689	6.674
Mean + Normal 95%UCL			2.260	5.800	5.690

Sign Off Area 9 - 12/10/2022 - U15, U16, U17, U18					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		T16 (T15)	1.00	1.65	1.33
Layer 5 - 300		S18	<1	0.53	0.38
Layer 4 - 300		S17	0.50	1.12	0.55
Layer 3 - 300		S18	<1	0.53	0.38
Layer 2 - 300		S17	0.50	1.12	0.55
Layer 1 - 300		R17	0.50	0.41	0.10
Clay Level	3.54				
Average Grid Square Concentration			0.750	0.893	0.547
Student 95%UCL			0.262	0.465	0.400
Mean + Student 95%UCL			1.012	1.357	0.947
Mean + Normal 95%UCL			0.969	1.281	0.881

Sign Off Area 11 - 19/10/2022 - R12 + R13					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		P10	6.33	4.77	1.93
Layer 4 - 300		O12	0.60	4.80	3.30
Layer 3 - 300		R140	< 0.50	3.150	3.650
Layer 2 - 300		R140	< 0.50	3.150	3.650
Layer 1 - 300		R140	< 0.50	3.150	3.650
Clay Level	3.54				
Average Grid Square Concentration			1.687	3.803	3.237
Student 95%UCL			2.885	0.994	0.826
Mean + Student 95%UCL			4.572	4.797	4.063
Mean + Normal 95%UCL			3.723	4.505	3.820

Sign Off Area 13 - 21/11/2022 - V13, V14 + V15					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		S18	<1	0.530	0.377
Layer 4 - 300		S17	0.500	1.120	0.550
Layer 3 - 300		S18	<1	0.530	0.377
Layer 2 - 300		T17	<0.50	2.300	1.450
Layer 1 - 300		T17	<0.50	2.300	1.450
Clay Level	3.54				
Average Grid Square Concentration			0.700	1.356	0.841
Student 95%UCL			0.304	0.994	0.623
Mean + Student 95%UCL			1.004	2.350	1.463
Mean + Normal 95%UCL			0.915	2.057	1.280

Sign Off Area 15 - 01/12/2022 - V16-18

Sign Off Area 2 - 29/09/22 - S12 + T12					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		R13	1.60	8.65	
Layer 5 - 300		S12	0.8	9.9	
Layer 4 - 300		R12	3.45	13.1	
Layer 3 - 300		S12	0.8	9.9	
Layer 2 - 300		R140	< 0.50	3.15	
Layer 1 - 300		R12	3.45	13.1	
Clay Level	3.54				
Average Grid Square Concentration			1.767	9.633	
Student 95%UCL			1.297	3.512	
Mean + Student 95%UCL			3.064	13.145	
Mean + Normal 95%UCL			2.850	12.566	

Sign Off Area 4 - 03/10/22 - U14					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		T13	1.00	0.47	
Layer 5 - 300		W213	1.18	5.25	
Layer 4 - 300		S13	0.50	5.70	
Layer 3 - 300		W53	2.20	6.85	
Layer 2 - 300		T14	1.00	0.462	
Layer 1 - 300		S12	0.80	9.90	
Clay Level	3.54				
Average Grid Square Concentration			1.114	4.771	
Student 95%UCL			0.556	3.554	
Mean + Student 95%UCL			1.670	8.325	
Mean + Normal 95%UCL			1.579	7.739	

Sign Off Area 6 - 05/10/2022 - R12, R13 + S12, S13					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		U15	1.00	0.82	
Layer 5 - 300		U15	1.00	0.82	
Layer 4 - 300		W53	2.20	6.85	
Layer 3 - 300		W53	2.20	6.85	
Layer 2 - 300		W53	2.20	6.85	
Layer 1 - 300		W213	1.18	5.25	
Clay Level	3.54				
Average Grid Square Concentration			1.631	4.573	
Student 95%UCL			0.601	2.848	
Mean + Student 95%UCL			2.232	7.420	
Mean + Normal 95%UCL			2.133	6.951	

Sign Off Area 8 - 12/10/2022 - R11, R12					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 5 - 300		Q12	0.75	5.350	
Layer 4 - 300		Q11	0.50	11.25	
Layer 3 - 300		W53	2.20	6.85	
Layer 2 - 300		Q11	0.50	11.25	
Layer 1 - 300		Q11	0.50	11.25	
Clay Level	3.54				
Average Grid Square Concentration			0.890	9.190	
Student 95%UCL			0.822	3.188	
Mean + Student 95%UCL			1.712	12.378	
Mean + Normal 95%UCL			1.470	11.440	

Sign Off Area 10 - 14/10/2022 - S15, S16 + T15, T16					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		T15	1.00	1.65	
Layer 5 - 300		T18 (T19)	<1	1.96	
Layer 4 - 300		T18 (T19)	<1	1.96	
Layer 3 - 300		S18	<1	0.53	
Layer 2 - 300		S17	0.50	1.12	
Layer 1 - 300		R17	0.50	0.41	
Clay Level	3.54				
Average Grid Square Concentration			0.833	1.271	
Student 95%UCL			0.247	0.666	
Mean + Student 95%UCL			1.081	1.937	
Mean + Normal 95%UCL			1.040	1.827	

Sign Off Area 12 - 04/11/2022 - T17					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		S15	1.00	1.38	
Layer 5 - 300		T15	1.00	1.65	
Layer 4 - 300		T11	0.85	1.65	
Layer 3 - 300		T11	0.85	1.65	
Layer 2 - 300		U11	1.00	1.85	
Layer 1 - 300		U11	1.00	1.85	
Clay Level	3.54				
Average Grid Square Concentration			0.950	1.670	
Student 95%UCL			0.074	0.164	
Mean + Student 95%UCL			1.024	1.834	
Mean + Normal 95%UCL			1.012	1.807	

Sign Off Area 14 - 30/11/2022 - V16-18					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	
Layer 6 - 300		S16	1.000	0.323	
Layer 5 - 300		S15	1.00	1.38	
Layer 4 - 300		T11	0.85	1.65	
Layer 3 - 300		T11	0.85	1.65	
Layer 2 - 300		U14	1.00	0.79	
Layer 1 - 300		U14	1.00	0.79	
Clay Level	3.54				
Average Grid Square Concentration			0.950	1.097	
Student 95%UCL			0.074	0.521	
Mean + Student 95%UCL			1.024	1.618	
Mean + Normal 95%UCL			1.012	1.532	

Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		Q13 (O12)	0.60	4.80	3.30
Layer 4 - 300		R15	1.00	6.29	2.47
Layer 3 - 300		R16	<0.50	3.4	2.5
Layer 2 - 300		R16	<0.50	3.4	2.5
Layer 1 - 300		R15	1.00	6.29	2.47
Clay Level	3.54				
Average Grid Square Concentration			0.720	4.835	2.647
Student 95%UCL			0.287	1.603	0.406
Mean + Student 95%UCL			1.007	6.438	3.053
Mean + Normal 95%UCL			0.923	5.966	2.933

Sign Off Area 16b - 09/12/2022 - S16+S17					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		S16	1.00	0.32	0.19
Layer 4 - 300		R18	1.00	0.79	0.39
Layer 3 - 300		R17	0.50	0.41	0.10
Layer 2 - 300		R18	1.00	0.79	0.39
Layer 1 - 300		R17	0.50	0.41	0.10
Clay Level	3.54				
Average Grid Square Concentration			0.800	0.543	0.233
Student 95%UCL			0.304	0.255	0.161
Mean + Student 95%UCL			1.104	0.798	0.395
Mean + Normal 95%UCL			1.015	0.723	0.347

Sign Off Area 16d - 12/12/2022					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		S15	1.00	1.38	0.89
Layer 5 - 300		T15	1.00	1.65	1.33
Layer 4 - 300		T11	0.85	1.65	1.55
Layer 3 - 300		T11	0.85	1.65	1.55
Layer 2 - 300		U11	1.00	1.85	1.29
Layer 1 - 300		U11	1.00	1.85	1.29
Clay Level	3.54				
Average Grid Square Concentration			0.950	1.670	1.315
Student 95%UCL			0.074	0.164	0.231
Mean + Student 95%UCL			1.024	1.834	1.546
Mean + Normal 95%UCL			1.012	1.807	1.508

Sign Off Area 18 - 14/02/2023					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		O12	0.60	4.80	3.30
Layer 4 - 300		O12	0.600	4.800	3.300
Layer 3 - 300		O12	0.600	4.800	3.300
Layer 2 - 300		Q13 (O12)	0.60	4.80	3.30
Layer 1 - 300		Q13 (O12)	0.60	4.80	3.30
Clay Level	3.54				
Average Grid Square Concentration			0.600	4.800	3.300
Student 95%UCL			#NUM!	#NUM!	#NUM!
Mean + Student 95%UCL			#NUM!	#NUM!	#NUM!
Mean + Normal 95%UCL			#NUM!	#NUM!	#NUM!

Sign Off Area 20 - 27/02/23					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		O12	0.60	4.80	3.30
Layer 4 - 300		O12	0.60	4.80	3.30
Layer 3 - 300		O12	0.60	4.80	3.30
Layer 2 - 300		Q13 (O12)	0.60	4.80	3.30
Layer 1 - 300		Q13 (O12)	0.60	4.80	3.30
Clay Level	3.54				
Average Grid Square Concentration			0.600	4.800	3.300
Student 95%UCL			#NUM!	#NUM!	#NUM!
Mean + Student 95%UCL			#NUM!	#NUM!	#NUM!
Mean + Normal 95%UCL			#NUM!	#NUM!	#NUM!

Sign Off Area 22 - 28/02/23					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		Q13 (O12)	0.60	4.80	3.30
Layer 4 - 300		O11	0.60	9.10	5.83
Layer 3 - 300		O13	0.50	3.55	0.10
Layer 2 - 300		Q13 (O12)	0.60	4.80	3.30
Layer 1 - 300		O12	0.60	4.80	3.30
Clay Level	3.54				
Average Grid Square Concentration			0.580	5.410	3.167
Student 95%UCL			0.050	2.368	2.260
Mean + Student 95%UCL			0.630	7.778	5.427
Mean + Normal 95%UCL			0.615	7.082	4.762

Sign Off Area 24 - 28/03/23					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		Q14	3.620	17.034	10.524
Layer 4 - 300		P14	3.645	1.434	0.836
Layer 3 - 300		P14	3.645	1.434	0.836
Layer 2 - 300		O14	0.900	20.000	11.400
Layer 1 - 300		O14	0.900	20.000	11.400
Clay Level	3.54				
Average Grid Square Concentration			2.542	11.980	6.999
Student 95%UCL			1.665	10.776	6.261
Mean + Student 95%UCL			4.207	22.757	13.260
Mean + Normal 95%UCL			3.717	19.588	11.419

Sign Off Area 26 - 26/04/2023					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		T12	1.000	0.480	0.300

Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		Q13 (O12)	0.60	4.80
Layer 4 - 300		Q13 (O12)	0.60	4.80
Layer 3 - 300		R16	<0.50	3.4
Layer 2 - 300		R16	<0.50	3.4
Layer 1 - 300		R16	<0.50	3.4
Clay Level	3.54			
Average Grid Square Concentration			0.540	3.960
Student 95%UCL			0.061	0.852
Mean + Student 95%UCL			0.601	4.812
Mean + Normal 95%UCL			0.583	4.561

Sign Off Area 16c - 14/12/2022 - T11				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		AW32	<0.50	5.40
Layer 4 - 300		AV31	1.200	0.640
Layer 3 - 300		AU28	<1	<0.017
Layer 2 - 300		AU27 (AU28)	<1	<0.017
Layer 1 - 300		AL32	<1	0.354
Clay Level	3.54			
Average Grid Square Concentration			0.940	1.286
Student 95%UCL			0.290	2.571
Mean + Student 95%UCL			1.230	3.856
Mean + Normal 95%UCL			1.144	3.100

Sign Off Area 16e- 19/12/2022				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 6 - 300		Q13 (O12)	0.60	4.80
Layer 5 - 300		O11	0.60	9.10
Layer 4 - 300		O12	0.60	4.80
Layer 3 - 300		O11	0.60	9.10
Layer 2 - 300		O12	0.60	4.80
Layer 1 - 300		O11	0.60	9.10
Clay Level	3.54			
Average Grid Square Concentration			0.600	6.950
Student 95%UCL			#NUM!	2.256
Mean + Student 95%UCL			#NUM!	9.206
Mean + Normal 95%UCL			#NUM!	8.835

Sign Off Area 17 - 07/12/2022				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		S11	< 0.50	8.40
Layer 4 - 300		S11	< 0.50	8.40
Layer 3 - 300		R11	3.50	15.00
Layer 2 - 300		W53	2.20	6.85
Layer 1 - 300		W53	2.20	6.85
Clay Level	3.54			
Average Grid Square Concentration			1.780	9.100
Student 95%UCL			1.425	3.763
Mean + Student 95%UCL			3.205	12.863
Mean + Normal 95%UCL			2.786	11.756

Sign Off Area 19 - 23/02/23				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		O12	0.60	4.80
Layer 4 - 300		O11	0.60	9.10
Layer 3 - 300		O11	0.60	9.10
Layer 2 - 300		O10	0.50	6.20
Layer 1 - 300		O10	0.50	6.20
Clay Level	3.54			
Average Grid Square Concentration			0.560	7.080
Student 95%UCL			0.061	2.144
Mean + Student 95%UCL			0.621	9.224
Mean + Normal 95%UCL			0.603	8.594

Sign Off Area 21 - 23/02/23				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		O14	0.900	20.000
Layer 4 - 300		Q12	0.75	5.35
Layer 3 - 300		Q12	0.75	5.35
Layer 2 - 300		Q12	0.75	5.35
Layer 1 - 300		Q12	0.75	5.35
Clay Level	3.54			
Average Grid Square Concentration			0.780	8.280
Student 95%UCL			0.074	7.276
Mean + Student 95%UCL			0.854	15.556
Mean + Normal 95%UCL			0.833	13.416

Sign Off Area 23 - 08/03/23				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 5 - 300		P14	3.65	1.43
Layer 4 - 300		P14	3.65	1.43
Layer 3 - 300		P14	3.65	1.43
Layer 2 - 300		P15	1.00	6.90
Layer 1 - 300		P15	1.00	6.90
Clay Level	3.54			
Average Grid Square Concentration			2.587	3.620
Student 95%UCL			1.609	3.325
Mean + Student 95%UCL			4.196	6.945
Mean + Normal 95%UCL			3.723	5.968

Sign Off Area 25 - 20/04/2023				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene

Layer 5 - 300		U12	1.000	1.381	1.102
Layer 4 - 300		O13	0.500	3.550	0.100
Layer 3 - 300		Q12	0.750	5.350	0.100
Layer 2 - 300		Q12	0.750	5.350	0.100
Layer 1 - 300		Q12	0.750	5.350	0.100
Clay Level	3.54				
Average Grid Square Concentration			0.792	3.577	0.300
Student 95%UCL			0.180	2.092	0.384
Mean + Student 95%UCL			0.972	5.669	0.684
Mean + Normal 95%UCL			0.942	5.324	0.621

Sign Off Area 27 - 04/05/2023					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 5 - 300		U13 (U14)	1.00	0.79	0.54
Layer 4 - 300		O13	0.500	3.550	0.100
Layer 3 - 300		O13	0.500	3.550	0.100
Layer 2 - 300		O13	0.500	3.550	0.100
Layer 1 - 300		O13	0.500	3.550	0.100
Clay Level	3.54				
Average Grid Square Concentration			0.600	2.998	0.189
Student 95%UCL			0.248	1.370	0.221
Mean + Student 95%UCL			0.848	4.369	0.410
Mean + Normal 95%UCL			0.775	3.966	0.345

Sign Off Area 29 - 28/06/2023					
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene	Benzo[b]fluoranthene
Layer 6 - 300		U19	1.000	0.130	0.060
Layer 5 - 300		O13	0.500	3.550	0.100
Layer 4 - 300		O13	0.500	3.550	0.100
Layer 3 - 300		Q12	0.750	5.350	0.100
Layer 2 - 300		U14	1.00	0.79	0.54
Layer 1 - 300		U14	1.000	0.791	0.545
Clay Level	3.54				
Average Grid Square Concentration			0.792	2.360	0.242
Student 95%UCL			0.235	1.994	0.226
Mean + Student 95%UCL			1.027	4.355	0.467
Mean + Normal 95%UCL			0.988	4.026	0.430

Layer 5 - 300		P14	3.65	1.43
Layer 4 - 300		P15	1.00	6.90
Layer 3 - 300		O14/P15	0.95	13.45
Layer 2 - 300		P14	3.65	1.43
Layer 1 - 300		O14	0.90	20.00
Clay Level	3.54			
Average Grid Square Concentration			2.028	8.644
Student 95%UCL			1.640	8.938
Mean + Student 95%UCL			3.668	17.581
Mean + Normal 95%UCL			3.186	14.953

Sign Off Area 28 - 12/05/2023				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 6 - 300		O15	1.50	9.03
Layer 5 - 300		P16	1.00	2.72
Layer 4 - 300		Q16 (P16)	1.00	2.72
Layer 3 - 300		Q16 (P16)	1.00	2.72
Layer 2 - 300		P16	1.00	2.72
Layer 1 - 300		P16	1.00	2.72
Clay Level	3.54			
Average Grid Square Concentration			1.083	3.772
Student 95%UCL			0.196	2.469
Mean + Student 95%UCL			1.279	6.241
Mean + Normal 95%UCL			1.247	5.835

Sign Off Area 30 - 15/11/2022 -				
Layer Thickness (mm)	Level (mAOD)	Source	Cyanide (Total)	Fluoranthene
Layer 6 - 300		R15	1.00	6.29
Layer 5 - 300		S15	1.00	1.38
Layer 4 - 300		U15	1.00	0.82
Layer 3 - 300		U15	1.00	0.82
Layer 2 - 300		W53	2.20	6.85
Layer 1 - 300		W213	1.18	5.25
Clay Level	3.54			
Average Grid Square Concentration			1.231	3.567
Student 95%UCL			0.460	2.739
Mean + Student 95%UCL			1.691	6.306
Mean + Normal 95%UCL			1.615	5.855

Benzo[b]fluoranthene
5.35
5.2
9.2
5.2
3.65
9.2
6.300
2.233
8.533
8.165

Benzo[b]fluoranthene
0.33
4.18
3.50
8.00
0.3505
5.20
3.594
2.826
6.420
5.954

Benzo[b]fluoranthene
0.71
0.71
8.00
8.00
8.00
4.18
4.934
3.440
8.373
7.806

Benzo[b]fluoranthene
0.100
7.05
8.00
7.05
7.05
5.850
3.599
9.449
8.391

Benzo[b]fluoranthene
1.33
1.45
1.45
0.38
0.55
0.10
0.876
0.578
1.455
1.359

Benzo[b]fluoranthene
0.89
1.33
1.55
1.55
1.29
1.29
1.315
0.231
1.546
1.508

Benzo[b]fluoranthene
0.193
0.89
1.55
1.55
0.54
0.54
0.879
0.541
1.420
1.331

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Benzo[b]fluor anthene
3.30
3.30
2.5
2.5
2.5
2.820
0.487
3.307
3.164

Benzo[b]fluor anthene
4.20
0.500
<0.015
<0.015
0.426
1.031
1.983
3.014
2.431

Benzo[b]fluor anthene
3.30
5.83
3.30
5.83
3.30
5.83
4.567
1.329
5.896
5.677

Benzo[b]fluor anthene
4.30
4.30
8.30
8.00
8.00
6.580
2.315
8.895
8.215

Benzo[b]fluor anthene
3.30
5.83
5.83
4.30
4.30
4.713
1.223
5.936
5.576

Benzo[b]fluor anthene
11.400
0.10
0.10
0.10
0.10
2.360
5.612
7.972
6.322

Benzo[b]fluor anthene
0.84
0.84
0.84
3.32
3.32
1.828
1.508
3.336
2.892

Benzo[b]fluor anthene

0.84
3.32
7.36
0.84
11.40
4.749
5.081
9.830
8.336

Benzo[b]fluor anthene
7.40
0.96
0.96
0.96
0.96
0.96
0.96
2.032
2.519
4.551
4.136

Benzo[b]fluor anthene
2.47
0.89
0.71
0.71
8.00
4.18
2.827
2.758
5.584
5.130

	Cyanide	Fluoranthene	Benzo(b)fluoranthene
Min	0.540	0.543	0.189
Max	2.587	11.980	6.999
Average	1.124	4.517	2.775
Median	0.945	3.788	2.503

SV	2.02	6.64	3.42
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<0.500	<1.00	<0.5
0.500 - 1.000	1.000 - 2.000	0.500 - 1.000
1.000 - 1.500	2.001 - 3.000	1.001 - 1.500
1.500 - 2.019	3.001 - 4.000	1.501 - 2.000
>2.02	4.000 - 5.000	2.001 - 2.500
	5.000 - 6.000	2.501 - 3.000
	6.000 - 6.639	3.000 - 3.419
	>6.640	>3.42