

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No: 4328	Site: Plots NT02-NT04
	Date: 14/10/2022	Client: Far East Consortium
	Engineer: RM	Equipment: GFM435

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Raining	Cloudy	Raining
Barometric Pressure Trend:	Falling	Falling	Falling
Surface Ground Conditions:	Wet		

VISIT FOUR	Start	Finish
Time:	1335	1451
Barometric Pressure:	1002	1000
Background Oxygen:	20.7	20.5

Monitoring Point	Flow Rate (l/h)	Gas Concentration						Flow Rate (l/h)	Steady					Groundwater			Remarks
		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/C O (ppm)	CH ₄ %		CO ₂ %	O ₂ %	LEL %	H2S/C O (ppm)	Depth to Water	Depth to Base	Head of water		
WS209	0	0	1.8	17.8	<<<	0/0	0	0	1.8	17.8	<<<	0/0	Dry	1.55	N/A		
WS208	0	0	1.8	17.3	<<<	0/0	0	0	1.8	17.3	<<<	0/0		0.90			
WS213	0	0	2.3	17.2	<<<	0/0	0	0	2.3	17.2	<<<	0/0		0.90			
WS211	0	0	1.1	19	<<<	0/0	0	0	1.1	19	<<<	0/0		1.82			
LK WS103	0	0	7.5	4.1	<<<	0/0	0	0	7.5	4.1	<<<	0/0		2.96			
WS204	0	0	9.8	6.4	<<<	0/0	0	0	9.8	6.4	<<<	0/0		1.51			
WS202	0	0	8.2	11.3	<<<	0/0	0	0	8.2	11.3	<<<	0/0		1.68			
WS203	0	0	3.3	14.7	<<<	0/0	0	0	3.3	14.7	<<<	0/0		0.66			
LK WS105B	-	-	-	-	-	-	-	-	-	-	-	-		2.80		Could Not Access	
LK WS201	0	0	4.6	14.9	<<<	0/0	0	0	4.6	14.9	<<<	0/0	3.34				

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No: 4328	Site: Plots NT02-NT04
	Date: 25/10/2022	Client: Far East Consortium
	Engineer: RM	Equipment: GFM435

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast/Rain	Overcast	Overcast
Barometric Pressure Trend:	Falling	Rising	Fluctuating
Surface Ground Conditions:	Dry/damp		

VISIT FIVE	Start	Finish
Time:	1510	1610.00
Barometric Pressure:	1004	1003
Background Oxygen:	20.8	20.5

Monitoring Point	Flow Rate (l/h)	Gas Concentration						Flow Rate (l/h)	Steady					Groundwater			Remarks
		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	CH ₄ %		CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	Depth to Water	Depth to Base	Head of water		
WS209	0	0	1.6	18.5	<<<	0/0	0	0	1.6	18.5	<<<	0/0	Dry	1.55	N/A		
WS208	0	0	1.6	18.5	<<<	0/0	0	0	1.6	18.5	<<<	0/0		0.90			
WS213	0	0	2.6	16.6	<<<	0/0	0	0	2.6	16.6	<<<	0/0		0.90			
WS211	0	0	0.2	20.5	<<<	0/0	0	0	0.2	20.5	<<<	0/0		1.82			
LK WS103	0	0	7.2	0.6	<<<	0/0	0	0	7.2	0.6	<<<	0/0		2.96			
WS204	0	0	8.9	5.9	<<<	0/0	0	0	8.9	5.9	<<<	0/0		1.51			
WS202	0	0	4.8	13.4	<<<	0/0	0	0	4.8	13.4	<<<	0/0		1.68			
WS203	0	0	1.8	18.1	<<<	0/0	0	0	1.8	18.1	<<<	0/0		0.66			
LK WS105B	-	-	-	-	-	-	-	-	-	-	-	-		2.80		Could not access	
LK WS201	0	0	1.7	17.8	<<<	0/0	0	0	1.7	17.8	<<<	0/0	3.34				

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No: 4328	Site: Plots NT02-NT04
	Date: 28/10/2022	Client: Far East Consortium
	Engineer: RM	Equipment: GFM435

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast / rain	Overcast / rain	Overcast
Barometric Pressure Trend:	Rising	Fluctuating	Rising
Surface Ground Conditions:			

VISIT SIX	Start	Finish
Time:	1240	1400.00
Barometric Pressure:	1008	1008
Background Oxygen:	20.8	20.7

Monitoring Point	Flow Rate (l/h)	Gas Concentration						Flow Rate (l/h)	Steady					Groundwater			Remarks
		Peak												Depth to Water	Depth to Base	Head of water	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)					
WS209	0	0	1.3	18.9	<<<	0/0	0	0	1.3	18.9	<<<	0/0	Dry	1.55	N/A		
WS208	0	0	1.6	18.6	<<<	0/0	0	0	1.6	18.6	<<<	0/0		0.90			
WS213	0	0	2.5	16.9	<<<	0/0	0	0	2.5	16.9	<<<	0/0		0.90			
WS211	0	0	0.3	20.4	<<<	0/0	0	0	0.3	20.4	<<<	0/0		1.82			
LK WS103	0	0	7	1.9	<<<	0/0	0	0	7	1.9	<<<	0/0		2.96			
WS204	0	0	8.5	5.7	<<<	0/0	0	0	8.5	5.7	<<<	0/0		1.51			
WS202	0	0	4.1	14.5	<<<	0/0	0	0	4.1	14.5	<<<	0/0		1.68			
WS203	0	0	0.5	19.7	<<<	0/0	0	0	0.5	19.7	<<<	0/0		0.66			
LK WS105B	0	0	3.2	15	<<<	0/0	0	0	3.2	15	<<<	0/0		2.80			
LK WS201	0	0	1.3	18.6	<<<	0/0	0	0	1.3	18.6	<<<	0/0		3.34			

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	28/04/2023	Client:	Far East Consortium
	Engineer:	PN	Equipment:	GA5000

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Overcast
Barometric Pressure Trend:	Falling	Rising	Fluctuating
Surface Ground Conditions:			

VISIT ONE	Start	Finish
Time:	0852	Time: 944.00
Barometric Pressure:	1007	Barometric Pressure: 1007
Background Oxygen:	20.8	Background Oxygen: 20.7

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Steady					Depth to Water	Depth to Base	Head of water	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/C O (ppm)	Flow Rate (l/h)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H2S/C O (ppm)				
WS311	0	0	0.2	20	0	1/2	0	0	0.2	21.1	0	1/2	0.49	1.62	1.13	
WS310	0	0	2.5	18.1	0	0/0	0	0	2.5	18.1	0	0/0	Dry	1.05	-	
WS312	0	0	0.4	18.5	0	0/4	0	0	0.4	18.5	0	0/1	Dry	1.10	-	

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	05/05/2023	Client:	Far East Consortium
	Engineer:	AS	Equipment:	GA5000

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Overcast
Barometric Pressure Trend:	Steady	Steady	Steady
Surface Ground Conditions:			

VISIT TWO	Start	Finish
Time:	1028	1056.00
Barometric Pressure:	1024	1024
Background Oxygen:	20.8	20.8

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Flow Rate (l/h)	Steady					Depth to Water	Depth to Base	
BH N°	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	CH ₄ %	CO ₂ %		O ₂ %	LEL %	H ₂ S/C O (ppm)	Depth to Water	Depth to Base			Head of water
WS310	0.1	0	2.8	16.9	0	0/0	0.1	0	2.8	16.9	0	0/0	Dry	1.03	-	
WS312	0	0	1.3	1.2	0	1/1	0	0	1.3	1.2	0	1/0	Dry	1.09	-	
WS311	0	0	0.2	20.1	0	0/2	0	0	0.2	20.1	0	0/2	0.50	1.61	1.11	

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	11/05/2023	Client:	Far East Consortium
	Engineer:	IB	Equipment:	GA5000

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Dry
Barometric Pressure Trend:	Steady	Steady	Steady
Surface Ground Conditions:			

VISIT THREE	Start	Finish
Time:	0945	1019.00
Barometric Pressure:	1011	1013
Background Oxygen:	20.7	20.7

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Steady					Depth to Water	Depth to Base	Head of water	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	Flow Rate (l/h)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)				
WS310	0	0	3.5	16.3	0	0/0	0	0	3.5	16.3	0	0/0	Dry	1.08	-	
WS312	0	0.2	1.8	0	4	0/2	0	0.2	1.8	0	4	0/1	1.10	1.12	0.02	
WS311	0	0.1	0.7	19.5	2	0/1	0.8	0	0.7	19.5	0	0/1	0.47	1.60	1.13	

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	06/07/2023	Client:	Far East Consortium
	Engineer:	RM	Equipment:	GFM435

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Dry
Barometric Pressure Trend:	Steady	Steady	Steady
Surface Ground Conditions:	Dry		

VISIT FOUR	Start	Finish
Time:	0930	1000
Barometric Pressure:	1010	1010
Background Oxygen:	21.0	21.0

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Flow Rate (l/h)	Steady					Depth to Water	Depth to Base	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)			CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)			
WS310	0	0	6.5	8.6	0	0/0	0	0	6.5	8.6	0	0/0	Dry	1.08	-	
WS312	0	0	0.1	2.3	0	0/0	0/0	0	0.1	2.3	0	0/0	Dry	1.12	-	
WS311	0	0	6.7	0.1	0	0/0	0	0	6.7	0.1	0	0/0	0.53	1.60	1.07	

Comments:	<<< = Below limit of detection
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 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	31/07/2023	Client:	Far East Consortium
	Engineer:	RM	Equipment:	GA5000

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Dry
Barometric Pressure Trend:	Steady	Steady	Steady
Surface Ground Conditions:			

VISIT FIVE	Start	Finish
Time:	0800	1146
Barometric Pressure:	998	997
Background Oxygen:	20.7	20.8

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Steady					Depth to Water	Depth to Base	Head of water	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	Flow Rate (l/h)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)				
WS310	0	0	7.8	5.7	0	0/0	0	0	7.8	5.7	0	0/0	Dry	1.08	-	
WS312	0	0	1	13.9	0	1/2	0	0	0.9	13.9	0	1/0	0.59	1.12	0.54	
WS311	0	0	4.5	11.7	0	0/0	0	0	4.1	12	0	0/0	0.45	1.60	1.15	

Comments: <<< = Below limit of detection

 Civil, Structural & Environmental Engineers Commercial Wharf, 6 Commercial St, MCR, M15 4PZ	Job No:	4328	Site:	Plots NT02-NT04
	Date:	31/08/2023	Client:	Far East Consortium
	Engineer:	RM	Equipment:	GA5000

	2 Days Prior	1 Day Prior	On day of Monitoring
Weather Conditions:	Overcast	Overcast	Dry
Barometric Pressure Trend:	Steady	Steady	Steady
Surface Ground Conditions:			

VISIT SIX	Start	Finish
Time:	1400	1430
Barometric Pressure:	1005	1005
Background Oxygen:	20.9	20.9

Monitoring Point	Flow Rate (l/h)	Gas Concentration											Groundwater			Remarks
		Peak						Steady					Depth to Water	Depth to Base	Head of water	
BH N°		CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)	Flow Rate (l/h)	CH ₄ %	CO ₂ %	O ₂ %	LEL %	H ₂ S/C O (ppm)				
WS310	0	0	8.3	8.1	<	0/2	0	0	8.3	8.1	<	0/1	Dry	1.08	-	
WS312	0	0	3.5	0.4	<	0/1	0	0	3.5	0.4	<	0/1	Dry	1.12	-	
WS311	0	0	2.4	17.2	<	0/1	0	0	2.4	17.2	<	0/1	0.40	1.60	1.20	Monitor sucked up water

Comments: <<< = Below limit of detection

BH I.D.	Easting	Northing	Ground Level (mAOD)	Drilled Depth (mbgl)	Drilled Depth (mOD)	Response zone from (mbgl)	Response zone to (mbgl)	Response zone from (mOD)	Response zone to (mOD)	Lithology at response zone	Date	Time	Height of measuring point (magl / mbgl)	Height of measuring point (mOD)	DTW from measuring point (mbgl)	DTW from ground level (mbgl)	Hydraulic Head (mOD)
RBH505 P1	384587.5093	399448.8265	31.41	14.50	16.91	4.50	11.80	26.91	19.61	CF	01/12/2023	-	-0.08	31.33	4.35	4.43	26.98
RBH505 P2	384587.5093	399448.8265	31.41	14.50	16.91	13.00	14.50	16.91	14.50	MM	01/12/2023	-	-0.06	31.35	4.36	4.42	26.99
RBH503	384615.9274	399444.165	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	01/12/2023	-	-0.09	31.56	4.73	4.82	26.83
RBH501	384638.9862	399388.867	33.59	16.00	17.59	4.50	15.00	29.09	18.59	CF	01/12/2023	-	-0.14	33.45	6.27	6.41	27.18
RBH502 P1	384576.6815	399444.2723	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	01/12/2023	-	-0.1	31.31	4.46	4.56	26.85
RBH502 P2	384587.5093	399448.8265	33.59	20.30	13.29	5.50	18.30	28.09	15.29	CF	01/12/2023	-	-0.05	33.54	6.13	6.19	27.41
RBH203	384619.3617	399403.8317	33.59	19.5	14.09	10	15	23.59	18.59	CF	01/12/2023	-	-0.14	33.45	6.38	6.52	27.07
RBH202	384638.0452	399446.2626	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	01/12/2023	-	-0.2	32.56	5.86	6.06	26.70
RBH303	384615.9274	399444.165	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	01/12/2023	-	-0.11	31.54	5.84	5.95	25.70
RBH504	384644.0717	399415.7532	34.04	14.5	19.54	4.5	11.95	29.54	22.09	CF	01/12/2023	-	-0.13	33.91	6.9	7.03	27.01
RBH401	384697.4	399411.32	43.07	20.50	22.57	11.50	16.50	31.57	26.57	RD	01/12/2023	-	-0.18	42.89	15.25	15.43	27.64
RBH403	384717.73	399423.13	43.03	21.00	22.03	11.50	16.50	31.53	26.53	RD	01/12/2023	-	-0.18	42.85	13.77	13.95	29.08
RBH207	384797.8989	399510.7339	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	01/12/2023	-	-0.12	36.05	1.06	1.18	34.99
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	01/12/2023	-	-0.1	33.49	6.09	6.19	27.40
RBH502 P1	384587.5093	399448.8265	33.59	20.30	13.29	5.50	18.30	28.09	15.29	CF	20/11/2023	-	-0.07	33.52	5.93	6	27.59
RBH502 P2	384587.5093	399448.8265	33.59	20.30	13.29	19.30	20.30	14.29	13.29	MM	20/11/2023	-	-0.07	33.52	6.61	6.68	26.91
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	20/11/2023	-	-0.07	33.52	5.92	5.99	27.60
RBH501	384638.9862	399388.867	33.59	16.00	17.59	4.50	15.00	29.09	18.59	CF	20/11/2023	-	-0.14	33.45	6.25	6.39	27.20
RBH505 P2	384587.5093	399448.8265	31.41	14.50	16.91	13.00	14.50	16.91	14.50	MM	20/11/2023	-	-0.07	31.34	4.27	4.34	27.07
RBH401	384697.4	399411.32	43.07	20.50	22.57	11.50	16.50	31.57	26.57	RD	20/11/2023	-	-0.15	42.92			
RBH403	384717.73	399423.13	43.03	21.00	22.03	11.50	16.50	31.53	26.53	RD	20/11/2023	-	-0.18	42.85	13.82	14	29.03
RBH306	384692.0001	399446.8116	33.73	20	13.73	9	11	24.73	22.73	MM	20/11/2023	-	-0.15	33.58	4.52	4.67	29.06
RBH210	384845.1357	399489.0191	41.38	25	16.38	20	25	21.38	16.38	MM	20/11/2023	-	-0.08	41.3	12.33	12.41	28.97
RBH207	384797.8989	399510.7339	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	20/11/2023	-	0.08	36.25	7.72	7.64	28.53
WS311	384712.61	399444.78	35.04	5.00	30.04	0.50	1.50	34.54	33.54	MG	20/11/2023	-	-0.09	34.95	1.02	1.11	33.93
RBH208	384757.4771	399461.3776	42	24.00	18.00	19.00	24.00	23.00	18.00	MM	20/11/2023	-	-0.03	41.97	13.49	13.52	28.48
RBH203	384619.3617	399403.8317	33.59	19.5	14.09	10	15	23.59	18.59	CF	20/11/2023	-	-0.15	33.44	6.33	6.48	27.11
RBH504	384644.0717	399415.7532	34.04	14.5	19.54	4.5	11.95	29.54	22.09	CF	20/11/2023	-	-0.13	33.91	6.85	6.98	27.06
RBH305	384638.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	20/11/2023	-	-0.15	32.00	5.25	5.4	26.75
RBH503	384615.9274	399444.165	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	20/11/2023	-	-0.09	31.56	4.70	4.79	26.86
RBH505 P1	384587.5093	399448.8265	31.41	14.50	16.91	4.50	11.80	26.91	19.61	CF	20/11/2023	-	-0.06	31.35	4.29	4.35	27.06
WS311	384712.61	399444.78	35.04	5.00	30.04	0.50	1.50	34.54	33.54	MG	13/11/2023	-	-0.09	34.95	0.31	0.40	34.64
RBH401	384697.4	399411.32	43.07	20.50	22.57	11.50	16.50	31.57	26.57	RD	13/11/2023	-	-0.18	42.89			
RBH403	384717.73	399423.13	43.03	21.00	22.03	11.50	16.50	31.53	26.53	RD	13/11/2023	-	-0.15	42.88	13.76	13.91	29.12
RBH505 P1	384587.5093	399448.8265	31.41	14.50	16.91	4.50	11.80	26.91	19.61	CF	13/11/2023	-	-0.06	31.35	4.26	4.32	27.09
RBH505 P2	384587.5093	399448.8265	31.41	14.50	16.91	13.00	14.50	16.91	14.50	MM	13/11/2023	-	-0.06	31.35	4.45	4.51	26.90
RBH305	384638.0148	399469.2144	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	13/11/2023	-	-0.15	32.00	5.25	5.40	26.75
RBH501	384638.9862	399388.867	33.59	16.00	17.59	4.50	15.00	29.09	18.59	CF	13/11/2023	-	-0.15	33.44	6.34	6.49	27.10
RBH502 P2	384587.5093	399448.8265	33.59	20.30	13.29	19.30	20.30	14.29	13.29	MM	13/11/2023	-	-0.08	33.51	6.38	6.46	27.13
RBH502 P1	384587.5093	399448.8265	33.59	20.30	13.29	5.50	18.30	28.09	15.29	CF	13/11/2023	-	-0.07	33.52	5.93	6.00	27.59
RBH503	384615.9274	399444.165	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	13/11/2023	-	-0.09	31.56	4.70	4.79	26.87
RBH302	384608.4155	399383.5676	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	13/11/2023	-	-0.09	33.50	5.91	6.00	27.60
RBH203	384619.3617	399403.8317	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	13/11/2023	-	-0.12	33.47	6.27	6.39	27.20
RBH504	384644.0717	399415.7532	34.04	14.50	19.54	4.50	11.95	29.54	22.09	CF	13/11/2023	-	-0.13	33.91	6.88	7.01	27.03
RBH501	384638.9862	399388.867	33.59	16.00	17.59	4.50	15.00	29.09	18.59	CF	06/11/2023	-	-0.14	33.45	6.34	6.48	27.11
RBH503	384615.9274	399444.165	31.65	12.50	19.15	5.00	10.00	26.65	21.65	CF	06/11/2023	-	-0.09	31.56	4.44	4.53	27.12
RBH504	384644.0717	399415.7532	34.04	14.50	19.54	4.50	11.95	29.54	22.09	CF	06/11/2023	-	-0.13	33.91	6.90	7.03	27.01
RBH505 P1	384587.5093	399448.8265	31.41	14.50	16.91	4.50	11.80	26.91	19.61	CF	06/11/2023	-	-0.06	31.35	4.82	4.88	26.53
RBH505 P2	384587.5093	399448.8265	31.41	14.50	16.91	13.00	14.50	16.91	14.50	MM	06/11/2023	-	-0.06	31.35	4.69	4.75	26.66
RBH401	384697.4	399411.32	43.07	20.50	22.57	11.50	16.50	31.57	26.57	RD	06/11/2023	-	-0.15	42.92	-	-	-
RBH403	384717.73	399423.13	43.03	21.00	22.03	11.50	16.50	31.53	26.53	RD	06/11/2023	-	-0.18	42.85	13.92	14.10	28.93
WS311	384712.61	399444.78	35.04	5.00	30.04	0.50	1.50	34.54	33.54	MG	06/11/2023	-	-0.09	34.95	0.32	0.41	34.63
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	31/08/2023	-	-0.15	33.44	6.44	6.59	27.00
LKBH01	384593.48	399443.85	31.41	15.00	16.41	5.00	10.00	26.41	16.41	CF & MM	31/08/2023	-	-0.09	31.32	4.42	4.51	26.90
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	31/08/2023	-	-0.21	32.55	6.01	6.22	26.54
RBH305	384636.01	399469.21	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	31/08/2023	-	-0.17	31.98	5.39	5.56	26.59
LKBH03	384634.56	399431.59	33.59	16.00	17.59	3.00	13.00	30.59	23.59	CF & MM	31/08/2023	-	-0.07	33.52	6.42	6.49	27.10
RBH303	384640.07	399422.36	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	31/08/2023	-	-0.12	32.89	5.91	6.03	26.98
RBH301	384576.68	399444.27	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	31/08/2023	-	-0.11	31.30	4.48	4.59	26.82
RBH302	384608.42	399383.57	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	31/08/2023	-	-0.1	33.49	6.16	6.26	27.33
RBH306	384692.00	399446.81	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	31/08/2023	-	-0.12	33.61	4.71	4.83	28.90
RBH307	384749.15	399493.27	39.84	24.00	15.84	9.00	20.00	30.84	19.84	MM	31/08/2023	-	-	-	-	-	-
RBH208	384757.48	399461.38	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	31/08/2023	-	-0.03	41.97	12.68	12.71	29.29
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	31/08/2023	-	-0.11	36.06	7.80	7.91	28.26
RBH209	384796.49	399492.29	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	31/08/2023	-	-	-	-	-	-
RBH210	384845.14	399489.02	41.38	25.00	16.38												

BH I.D.	Easting	Northing	Ground Level (mAOD)	Drilled Depth (mbgl)	Drilled Depth (MOD)	Response zone from (mbgl)	Response zone to (mbgl)	Response zone from (MOD)	Response zone to (MOD)	Lithology at response zone	Date	Time	Height of measuring point (magl / mbgl)	Height of measuring point (MOD)	DTW from measuring point (mbgl)	DTW from ground level (mbgl)	Hydraulic Head (MOD)
RBH307	384749.15	399493.27	39.84	24.00	15.84	9.00	20.00	30.84	19.84	MM	16/06/2023	-	0	39.84	11.65	11.65	28.19
RBH201	384597.08	399455.18	31.40	25.10	6.30	21.00	25.00	10.40	6.40	MM	-	-	-	-	-	-	-
RBH202	384638.05	399466.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	16/06/2023	-	0	-	6.24	6.24	26.52
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	16/06/2023	-	0	33.59	6.83	6.83	26.76
RBH205	384721.68	399517.64	31.38	25.00	6.38	20.00	25.00	11.38	6.38	MM	-	-	-	-	-	-	-
RBH206	384701.70	399491.17	32.00	25.00	7.00	21.00	25.00	11.00	7.00	MM	-	-	-	-	-	-	-
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	16/06/2023	-	0	36.17	7.52	7.52	28.65
RBH208	384757.48	399461.38	42.00	24.00	18.00	19.00	24.00	18.00	18.00	MM	16/06/2023	-	0	42	13.78	13.78	28.22
RBH209	384796.49	399492.29	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	-	-	-	-	-	-	-
RBH210	384845.14	399489.02	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	16/06/2023	-	0	41.38	12.09	12.09	29.29
LKBH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	16/06/2023	-	0	31.41	4.78	4.78	26.63
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	16/06/2023	-	0	33.59	6.76	6.76	26.83
RBH301	384576.68	399444.27	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	10/05/2023	-	-0.09	31.32	4.64	4.73	26.68
RBH302	384608.42	399383.57	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	10/05/2023	-	-0.07	33.52	6.48	6.55	27.04
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	10/05/2023	-	-0.14	33.45	6.6	6.74	26.85
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	10/05/2023	-	-0.07	33.52	6.59	6.66	26.93
RBH304	384680.66	399402.07	34.66	9.45	25.21	5.00	9.00	28.66	25.66	RD	10/05/2023	-	-0.1	34.56	7.24	7.34	27.32
RBH303	384640.07	399422.36	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	10/05/2023	-	-0.1	32.91	8.48	8.58	24.43
RBH306	384692.00	399446.81	33.73	20.00	13.73	9.00	11.00	22.73	17.73	MM	11/05/2023	-	-0.12	33.61	4.89	5.01	28.72
RBH305	384636.01	399469.21	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	11/05/2023	-	-0.17	31.98	5.5	5.67	26.48
RBH304	384680.66	399402.07	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	04/05/2023	-	-0.1	34.56	7.28	7.38	27.28
RBH302	384608.42	399383.57	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	04/05/2023	-	-0.07	33.52	6.48	6.55	27.04
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	04/05/2023	-	-0.14	33.45	6.6	6.74	26.85
RBH303	384640.07	399422.36	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	04/05/2023	-	-0.1	32.91	6.03	6.13	26.88
RBH305	384636.01	399469.21	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	04/05/2023	-	-0.17	31.98	5.47	5.64	26.51
RBH301	384576.68	399444.27	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	04/05/2023	-	-0.09	31.32	4.63	4.72	26.69
RBH306	384692.00	399446.81	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	04/05/2023	-	-0.12	33.61	4.87	4.99	28.74
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	04/05/2023	-	-0.07	33.52	6.56	6.63	26.96
RBH306	384692.00	399446.81	33.73	20.00	13.73	9.00	11.00	24.73	22.73	MM	28/04/2023	-	-0.12	33.61	3.87	3.99	29.74
RBH301	384576.68	399444.27	31.41	15.00	16.41	4.00	10.00	27.41	21.41	CF	28/04/2023	-	-0.09	31.32	4.61	4.7	26.71
RBH305	384636.01	399469.21	32.15	20.00	12.15	5.00	9.00	27.15	23.15	CF	28/04/2023	-	-0.17	31.98	5.46	5.62	26.52
RBH304	384680.66	399402.07	34.66	9.45	25.21	5.00	9.00	29.66	25.66	RD	28/04/2023	-	-0.1	34.56	7.31	7.41	27.25
RBH303	384640.07	399422.36	33.01	15.00	18.01	5.00	10.00	28.01	23.01	CF	28/04/2023	-	-0.1	32.91	6.01	6.11	26.90
RBH302	384608.42	399383.57	33.59	15.00	18.59	5.00	12.00	28.59	21.59	CF	28/04/2023	-	-0.07	33.52	6.46	6.53	27.06
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	16/02/2023	-	0	32.76	6.2	6.2	26.56
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	16/02/2023	-	0	33.59	6.73	6.73	26.86
RBH210	384845.14	399489.02	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	16/02/2023	-	0	41.38	8.9	8.9	32.48
LKBH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	16/02/2023	-	0	31.41	4.7	4.7	26.71
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	16/02/2023	-	0	33.59	6.7	6.7	26.89
RBH201	384597.08	399455.18	31.40	25.10	6.30	21.00	25.00	10.40	6.40	MM	19/01/2023	-	-0.14	31.26	4.44	4.58	26.82
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	19/01/2023	-	-0.19	32.57	5.84	6.03	26.73
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	19/01/2023	-	-0.13	33.46	6.41	6.54	27.05
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	19/01/2023	-	0.09	36.26	7.82	7.73	28.44
RBH208	384757.48	399461.38	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	19/01/2023	-	-0.03	41.97	13.57	13.6	28.40
RBH209	384796.49	399492.29	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	19/01/2023	-	-0.11	40.35	1.77	1.88	38.58
RBH210	384845.14	399489.02	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	19/01/2023	-	-0.09	41.29	12.41	12.5	28.88
LKBH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	19/01/2023	-	-0.09	31.32	4.34	4.43	26.98
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	19/01/2023	-	-0.07	33.52	6.39	6.46	27.13
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	21/12/2022	-	0	32.76	6.22	6.22	26.54
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	21/12/2022	-	0	33.59	6.64	6.64	26.95
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	21/12/2022	-	0	36.17	7.77	7.77	28.40
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	21/12/2022	-	0	33.59	6.62	6.62	26.97
LKBH01	384593.48	399443.85	31.41	15.00	16.41	5.00	15.00	26.41	16.41	CF & MM	27/09/2022	-	-0.09	31.32	4.6	4.69	26.72
RBH201	384597.08	399455.18	31.40	25.10	6.30	21.00	25.00	10.40	6.40	MM	27/09/2022	-	-0.14	31.26	4.65	4.79	26.61
RBH202	384638.05	399446.26	32.76	25.00	7.76	21.00	25.00	11.76	7.76	MM	27/09/2022	-	-0.2	32.56	6.09	6.29	26.47
RBH203	384619.36	399403.83	33.59	19.50	14.09	10.00	15.00	23.59	18.59	CF	27/09/2022	-	-0.14	33.45	6.66	6.8	26.79
RBH208	384757.48	399461.38	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	27/09/2022	-	-0.04	41.96	13.74	13.78	28.22
RBH209	384796.49	399492.29	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	27/09/2022	-	-0.25	40.21	12.35	12.31	27.86
RBH210	384845.14	399489.02	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	27/09/2022	-	-0.09	41.29	12.54	12.63	28.75
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	27/09/2022	-	0.08	36.25	7.97	7.89	28.28
RBH205	384721.68	399517.64	31.38	25.00	6.38	20.00	25.00	11.38	6.38	MM	27/09/2022	-	-0.09	31.29	5.42	5.51	25.87
LKBH03	384634.56	399391.59	33.59	20.00	13.59	3.00	20.00	30.59	13.59	CF & MM	27/09/2022	-	0	33.59	6.71	6.71	26.88
RBH210	384845.14	399489.02	41.38	25.00	16.38	20.00	25.00	21.38	16.38	MM	14/09/2022	-	-0.09	41.29	12.52	12.61	28.77
RBH207	384797.90	399510.73	36.17	25.00	11.17	20.00	25.00	16.17	11.17	MM	14/09/2022	-	0.08	36.25	7.92	7.84	28.33
RBH208	384757.48	399461.38	42.00	24.00	18.00	19.00	24.00	23.00	18.00	MM	14/09/2022	-	-0.04	41.96	13.7	13.74	28.26
RBH209	384796.49	399492.29	40.46	24.00	16.46	12.00	17.00	28.46	23.46	MM	14/09/2022	-	-0.25	40.21	12.32	12.57	27.89
RBH205	384721.68	399517.64	31.38	25.00	6.38	20.00	25.00	11.38	6.38	MM							



Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		2nd September 2022	Sampled by:	RM
	Weather:		Dry		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		YSI		
	Water Quality Meter Last Calibrated:		2nd September		
	Dissolved oxygen probe last calibrated:		2nd September		
	Water Level Meter Used (X that applicable):				
	Interface probe		Dip Meter	X	
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
p.H			0.1 unit		
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH205											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP								Offset from datum to GL (m):	0		
Start Time:	13:55	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50									YSI	<Select Probe	
Well Material	HDPE	14:20	13.2	1056	3.78	7.02	-47.7	6.450		165.40		
Initial Water Level (m)	5.600	14:23	13.1	1054	0.77	7.06	-51.8	6.450		161.30		
		14:26	13.0	1055	0.52	7.09	-53.9	6.450		159.20		
LNAPL Present? (Y/N)	N	14:29	12.9	1056	0.39	7.11	-54.8	6.450		158.30		
Initial LNAPL Level (m)		14:52	12.9	1056	0.36	7.11	-55	6.450		158.10		
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section.)	LowFlow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	6.50	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Light brown, some sediment, no odour										
Depth to Base (m)	23.64											
DNAPL Present? (Y/N)	N	Sample Containers Obtained				3 x G, 1 X P, 2 x V, 2 x Pr						
Initial DNAPL Level (m)		Sample Collection Time				14:20:00 - 14:46						

BH ID	RBH206											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP								Offset from datum to GL (m):		0	
Start Time:	14:55	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50									YSI	<Select Probe	
Well Material	HDPE	15:00	15	965	1.51	6.98	-33.6	5.8		178.1		
Initial Water Level (m)	5.75	15:03	14.2	940	0.42	7.14	-44.4	5.8		168		
		15:06	14.2	940	0.32	7.15	-46.1	5.8		166.3		
LNAPL Present? (Y/N)	N	15:09	14.1	938	0.28	7.15	-46	5.8		166.4		
Initial LNAPL Level (m)												
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section)	Lowflow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	7.00	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					3 x G, 1 X P, 2 x V, 2 x Pr					
Depth to Base (m)	24.99											
DNAPL Present? (Y/N)	n	Sample Containers Obtained					15:00-15:30					
Initial DNAPL Level (m)		Sample Collection Time										

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BH ID												
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP								Offset from datum to GL (m):			
Start Time:		Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)										SmarTroll	<Select Probe	
Well Material												
Initial Water Level (m)												
LNAPL Present? (Y/N)												
Initial LNAPL Level (m)												
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section)												
Sampling Method (Give details in Notes section.)												
Pump Intake Depth (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.										
Depth to Base (m)												
DNAPL Present? (Y/N)		Sample Containers Obtained										
Initial DNAPL Level (m)		Sample Collection Time										

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street							
	Project Number:		4328							
	Sampling Date:		14th September	Sampled by:	P.Nicol, J. Evans					
	Weather:		Sunny, 21 C							
	Well Notes - e.g. Condition, access, safety:									
Monitoring Information	Water Quality Meter Used:		Smarttroll							
	Water Quality Meter Last Calibrated:		14th September							
	Dissolved oxygen probe last calibrated:		14th September							
	Water Level Meter Used (X that applicable):									
	Interface probe		Dip Meter	X						
						Typical Parameter		Dissolved Oxygen (D.O.)		0.3 mg/l
						Stabilisation Criteria for Low-Flow Sampling		Specific Conductivity (Sp.Cond)		3%
						p.H		0.1 unit		
		Oxygen Reduction Potential (ORP)		10mV						
					* For REDOX correction, see separate guidance					

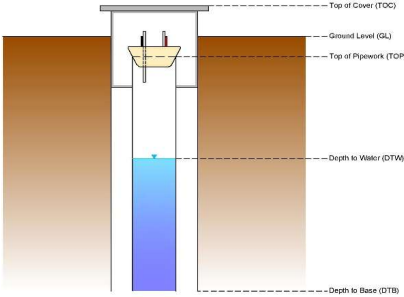
BH ID	RBH210											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP								Offset from datum to GL (m):		-0.09	
Start Time:	13:55	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		14:03	16.9	955.72	4.01	7.53	-129.1	12.520		72.90		
Initial Water Level (m)	12.520	14:06	14.7	925.15	1.00	7.51	-127.2	12.520		76.48		
		14:09	13.8	920.23	0.77	7.5	-126.5	12.520		78.02		
LNAPL Present? (Y/N)	N	14:12	13.7	916.99	0.68	7.51	-126.8	12.620		77.72		
Initial LNAPL Level (m)		14:15	13.5	913.83	0.59	7.53	-128.1	12.620		77.25		
Well Headspace Reading (PID/FID)		14:18	13.4	913.69	0.58	7.53	-128.2	12.620		77.15		
Purge Method (Give details in Notes section)	LowFlow											
Sampling Method (Give details in Notes section)	Bladder											
Pump Intake Depth (m)	22.00											
Depth to Base (m)	23.65	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.						Light brown, some sediment, no odour				
DNAPL Present? (Y/N)	N	Sample Containers Obtained						3 x G, 1 X P, 2 x V, 2 x Pr				
Initial DNAPL Level (m)		Sample Collection Time						14:18:00 - 14:35				

BH ID	RBH201, RBH202, RBH203 and RBH1 (RBH204 was not drilled)										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):			
Start Time:		Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)										SmarTroll	<Select Probe
Well Material											
Initial Water Level (m)		Access refused. We spoke to Reece McGuinness to advise accordingly. Security had also e-mailed him and Linden Richardson to the same effect.									
LNAPL Present? (Y/N)											
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)											
Sampling Method (Give details in Notes section)											
Pump Intake Depth (m)											
Depth to Base (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.									
DNAPL Present? (Y/N)		Sample Containers Obtained									
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):			
Start Time:		Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)										SmarTroll	<Select Probe
Well Material											
Initial Water Level (m)											
LNAPL Present? (Y/N)											
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)											
Sampling Method (Give details in Notes section)											
Pump Intake Depth (m)											
Depth to Base (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.									
DNAPL Present? (Y/N)		Sample Containers Obtained									
Initial DNAPL Level (m)		Sample Collection Time									

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		Groundwater Sampling Data Form			
		This form is also available for RSK Mobile Data Capture.			
Project Information	Project Name:		NT02-4 Dantzie Street		
	Project Number:		4328		
	Sampling Date:		14th September 22	Sampled by:	P.Nicol, J.Evans
	Weather:		Overcast, 20 C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		SmartTroll		
	Water Quality Meter Last Calibrated:		14/09/2022		
	Dissolved oxygen probe last calibrated:		14/09/2022		
	Water Level Meter Used (X that applicable):				
	Interface probe		Dip Meter	X	
					
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
p.H			0.1 unit		
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH207											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):		0.08		
Start Time:	10:18	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		10:35	14.9	867.12	4.92	7.72	-146.1	7.920		57.58		
Initial Water Level (m)	7.920	10:38	12.4	846.29	0.79	7.75	-140.3	7.930		65.88		
		10:41	12.4	843.06	0.6	7.75	-139.8	7.930		66.38		
LNAPL Present? (Y/N)	N	10:44	12.0	838.91	0.23	7.75	-139.7	7.930		66.48		
Initial LNAPL Level (m)		10:47	12.0	838.60	0.21	7.75	-139.6	7.930		66.58		
Well Headspace Reading (PID/FID)		10:50	12.0	837.86	0.20	7.75	-139.5	7.930		66.68		
Purge Method (Give details in Notes section)	LowFlow											
Sampling Method (Give details in Notes section)	Peristaltic											
Pump Intake Depth (m)	22.000											
Depth to Base (m)	24.110	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Orangey brown colour, no odour, sediment present. Approx 2 litres purged					
DNAPL Present? (Y/N)	N	Sample Containers Obtained					3 x G, 1 x P, 2 x V, 2 x Pr					
Initial DNAPL Level (m)		Sample Collection Time					10:50:00 - 11:11					

BH ID	RBH208										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.04		
Start Time:	11:17	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:35	13.8	976.62	6.39	7.77	-141.1	13.700		63.42	
Initial Water Level (m)	13.700	11:38	12.79	987.22	0.72	7.68	-136.3	13.700		69.05	
		11:41	12.38	983.24	0.33	7.67	-135.2	13.700		70.98	
LNAPL Present? (Y/N)	N	11:44	12.26	982.24	0.24	7.66	-134.9	13.700		71.28	
Initial LNAPL Level (m)		11:47	12.25	983.08	0.23	7.66	-134.8	13.700		71.38	
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Bladder										
Pump Intake Depth (m)	21.500										
Depth to Base (m)	23.560	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Orangey brown colour, some sediment, no odour.				
DNAPL Present? (Y/N)	N	Sample Containers Obtained					3 x G, 1 x P, 2 x V, 2 x Pr				
Initial DNAPL Level (m)		Sample Collection Time					11:46:00 - 12:05				

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BH ID	RBH209										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.25		
Start Time:	12:48	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		13:05	19.8	1242	4.51	7.56	-131.4	12.320		68.05	
Initial Water Level (m)	12.320	13:08	16.6	1231.9	2.70	7.51	-128.4	12.320		73.60	
		13:11	14.4	1252.9	1.04	7.47	-125.3	12.320		79.22	
LNAPL Present? (Y/N)	N	13:14	14.2	1153.8	0.94	7.47	-125.0	12.320		79.52	
Initial LNAPL Level (m)		13:17	13.8	1139.5	0.79	7.47	-124.9	12.320		79.62	
Well Headspace Reading (PID/FID)		13:20	13.7	1134.6	0.75	7.51	-126.9	12.320		77.62	
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Bladder										
Pump Intake Depth (m)	15.500										
Depth to Base (m)	16.580	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Orangey brown colour, no odour, lots of sediment.				
DNAPL Present? (Y/N)	N	Sample Containers Obtained					3 x G, 1 x P, 2 x V, 2 x Pr				
Initial DNAPL Level (m)		Sample Collection Time					13:20:00 - 13:45				

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		27th September	Sampled by:	AM
	Weather:		Overcast, 12 C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AQURA TROLL 848941		
	Water Quality Meter Last Calibrated:		27/09/2022		
	Dissolved oxygen probe last calibrated:		27/09/2022		
	Water Level Meter Used (X that applicable):				
	Interface probe	X	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH1 (Replacement for RBH204)											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.09			
Start Time:	09:40	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		09:53	12.5	1668.8	2.2	7.20	-6.2	4.650		602.14		
Initial Water Level (m)	4.600	09:56	12.54	1674.7	0.45	7.23	-41.4	4.700		602.14		
		09:59	12.58	1662.5	0.32	7.26	-55.6	4.700		602.14		
LNAPL Present? (Y/N)	N	10:02	12.57	1647.9	0.24	7.28	-64.3	4.700		602.14		
Initial LNAPL Level (m)		10:05	12.59	1632.9	0.19	7.29	-73.2	4.700		602.14		
Well Headspace Reading (PID/FID)		10:08	12.6	1621.0	0.17	7.30	-77.1	4.700		602.14		
		10:11	12.6	1616.7	0.16	7.30	-70.7	4.700		602.14		
Purge Method (Give details in Notes section)	LowFlow	10:14	12.6	1614.2	0.15	7.30	-81.8	4.700		602.14		
		10:17	12.6	1614.4	0.14	7.30	-85.0	4.700		602.14		
Sampling Method (Give details in Notes section.)	Peristaltic	10:20	12.6	1615.7	0.13	7.30	-85.6	4.700		602.14		
		10:23	12.6	1618.0	0.13	7.30	-85.5	4.700		602.14		
Pump Intake Depth (m)	13.000	10:26	12.6	1620.8	0.13	7.29	-86.0	4.700		602.14		
Depth to Base (m)	14.190	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Cloudy , on odour , 16s to fill vial										
DNAPL Present? (Y/N)	N	Sample Containers Obtained		6x1l glass 2x500ml plastic 2xY 2xR 4xV								
Initial DNAPL Level (m)		Sample Collection Time		10:26								

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BH ID	RBH201											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.14		
Start Time:	11:40	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material												
Initial Water Level (m)	4.650	11:43	13.65	1700.1	1.31	7.23	-10.1	4.700		602.14		
		11:46	13.7	1698.8	0.75	7.23	-12.9	4.730		602.14		
		11:49	13.78	1699.3	0.62	7.22	-14.8	4.730		602.14		
LNAPL Present? (Y/N)	N	11:52	13.71	1698.6	0.56	7.22	-15.5	4.730		602.14		
Initial LNAPL Level (m)		11:55	13.74	1699.8	0.51	7.22	-16.4	4.730		602.14		
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section.)	LowFlow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	22.000											
Depth to Base (m)	24.930	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.						Cloudy , no odour ,28s to fill vail				
DNAPL Present? (Y/N)	N	Sample Containers Obtained						6x1l glass 2x500ml plastic 2xY 2xR 4xV				
Initial DNAPL Level (m)		Sample Collection Time						11:55				

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		27th September	Sampled by:	AM
	Weather:		Overcast, 12 C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AQUA TROLL 848941		
	Water Quality Meter Last Calibrated:		27/09/2022		
	Dissolved oxygen probe last calibrated:		27/09/2022		
	Water Level Meter Used (X that applicable):				
	Interface probe	X	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH202											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP						Offset from datum to GL (m):		-0.2			
Start Time:	13:55	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		14:00	15.3	2201.1	4.14	7.08	140.1	6.100		602.14	SmartTroll <Select Probe	
Initial Water Level (m)	6.090	14:03	14.1	2188.7	0.6	7.07	128.2	6.100		602.94		
LNAPL Present? (Y/N)	N	14:06	13.8	2189.7	0.41	7.07	126.4	6.100		602.94		
Initial LNAPL Level (m)		14:09	13.7	2152.2	0.48	7.09	127.7	6.100		602.94		
		14:12	13.7	2150.3	0.44	7.09	129.8	6.100		602.94		
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section)	LowFlow											
Sampling Method (Give details in Notes section.)												
Pump Intake Depth (m)	23.000	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.										
Depth to Base (m)	24.940											
DNAPL Present? (Y/N)	N	Sample Containers Obtained		6 x G, 2 x P, 4 x Pr, 4 x V								
Initial DNAPL Level (m)		Sample Collection Time		14:12								

BH ID	RBH203											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.14		
Start Time:	15:22	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material												
Initial Water Level (m)	6.660	15:26	13.87	1125.7	4.57	7.49	117.1	6.670		602.14		
		15:29	12.73	1106.5	1.60	7.06	81.5	6.670		602.94		
		15:32	12.54	1114.0	1.41	7.01	88.8	6.670		602.94		
LNAPL Present? (Y/N)	N	15:35	12.48	1110.8	1.32	6.99	88.7	6.670		602.94		
Initial LNAPL Level (m)		15:38	12.48	1109.9	1.32	6.99	87.1	6.670		602.94		
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section.)	LowFlow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	13.000											
Depth to Base (m)	15.490	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.						Clear, no odour, 21 seconds for 40 ml vial				
DNAPL Present? (Y/N)	N	Sample Containers Obtained						6 x G, 2 x P, 4 x Pr, 4 x V				
Initial DNAPL Level (m)		Sample Collection Time						15:38				

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		NT02-04 Dantzie Street			
	Project Number:		4328			
	Sampling Date:		27th September 2022	Sampled by:		P.Nicol
	Weather:		Overcast, 12 C			
	Well Notes - e.g. Condition, access, safety:					
Monitoring Information	Water Quality Meter Used:		Aquatroll			
	Water Quality Meter Last Calibrated:		27th September 2022			
	Dissolved oxygen probe last calibrated:		27th September 2022			
	Water Level Meter Used (X that applicable):					
	Interface probe		Dip Meter	X		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l	
			Specific Conductivity (Sp.Cond)		3%	
p.H			0.1 unit			
Oxygen Reduction Potential (ORP)			10mV			
* For REDOX correction, see separate guidance						

BH ID	RBH208										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.04	
Start Time:	09:50	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50										
Well Material		10:26	11.8	945.32	4.06	7.75	-139.6	13.760		66.58	Select Probe
Initial Water Level (m)	13.740	10:29	11.6	959.67	0.40	7.73	-138.4	13.760		67.78	
LNAPL Present? (Y/N)	N	10:32	11.6	955.48	0.33	7.73	-138.5	13.760		67.68	
Initial LNAPL Level (m)		10:35	11.6	953.30	0.35	7.73	-138.7	13.760		67.48	
		10:38	11.6	950.25	0.29	7.73	-138.8	13.760		67.38	
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Bladder										
Pump Intake Depth (m)	21.500	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Clear, small amount of sediment, no odour. Approx 5 litres purged.									
Depth to Base (m)	23.560										
DNAPL Present? (Y/N)	N	Sample Containers Obtained				3 x G, 1 x P, 2 x Pr, 2 x V					
Initial DNAPL Level (m)		Sample Collection Time				10:38:00 - 10:53					

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BH ID	RBH209										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.25	

Start Time:	11:11	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:29	11.45	1165.9	0.86	7.77	-140.4	12.380		66.60	
Initial Water Level (m)	12.350	11:32	11.32	1153.2	0.62	7.76	-139.2	12.380		67.80	
		11:35	11.31	1169.0	0.70	7.62	-132.1	12.380		74.90	
LNAPL Present? (Y/N)	N	11:38	11.29	1166.0	0.68	7.72	-138.1	12.380		68.90	
Initial LNAPL Level (m)		11:41	11.27	1158.6	0.66	7.76	-140.1	12.380		66.90	
Well Headspace Reading (PID/FID)		11:44	11.3	1156.2	0.66	7.76	-140.4	12.380		66.60	
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Bladder										
Pump Intake Depth (m)	15.500										
Depth to Base (m)	16.580	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Light orangey brown colour, no odour, sediment present. Approx 6 litres p									
DNAPL Present? (Y/N)	N	Sample Containers Obtained 3 x G, 1 x P, 2 x Pr, 2 x V									
Initial DNAPL Level (m)		Sample Collection Time 11:44 - 11:58									

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BH ID	RBH210										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.09	
Start Time:	13:15	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		13:24	12.1	889.63	0.6	7.74	-139.2	12.550		66.98	
Initial Water Level (m)	12.540	13:27	12.17	887.64	0.56	7.75	-139.7	12.550		66.48	
		13:30	12.09	886.45	0.45	7.74	-138.9	12.550		67.28	
LNAPL Present? (Y/N)	N	13:33	12.05	886.31	0.42	7.73	-138.5	12.550		67.68	
Initial LNAPL Level (m)		13:36	12.03	886.41	0.39	7.73	-138.4	12.550		67.78	
Well Headspace Reading (PID/FID)		13:39	12.0	883.45	0.35	7.73	-139.5	12.550		66.68	
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Bladder										
Pump Intake Depth (m)	22.000										
Depth to Base (m)	23.050	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Clear, small amount of sediment, no odour. Approx 5 litres purged.									
DNAPL Present? (Y/N)	N	Sample Containers Obtained 3 x G, 1 x P, 2 x Pr, 2 x V									
Initial DNAPL Level (m)		Sample Collection Time 13:39 - 13:54									

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		NT02-04 Dantzic Street			
	Project Number:		4328			
	Sampling Date:		28th September 2022	Sampled by:		P.Nicol/A.Mowafi
	Weather:		Sunny, 12 C			
	Well Notes - e.g. Condition, access, safety:					
Monitoring Information	Water Quality Meter Used:		Aquatroll 359475			
	Water Quality Meter Last Calibrated:		28th September 2022			
	Dissolved oxygen probe last calibrated:		28th September 2022			
	Water Level Meter Used (X that applicable):					
	Interface probe	X	Dip Meter			
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l	
			Specific Conductivity (Sp.Cond)		3%	
p.H			0.1 unit			
Oxygen Reduction Potential (ORP)			10mV			
* For REDOX correction, see separate guidance						

BH ID	RBH207										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		0.08	
Start Time:	08:35	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarrTroll	<Select Probe
Well Material		08:49	10.7	818.4	0.52	7.61	-131.9	7.970		75.10	
Initial Water Level (m)	7.970	08:52	11.1	819.26	0.37	7.70	-136.4	7.970		70.60	
LNAPL Present? (Y/N)	N	08:55	11.1	818.62	0.27	7.75	-138.7	7.970		68.30	
Initial LNAPL Level (m)		08:58	11.2	819.94	0.26	7.70	-136.4	7.970		70.60	
		09:01	11.3	817.48	0.23	7.71	-136.9	7.970		70.10	
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)											
Pump Intake Depth (m)	22.500	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. 40ml vial = 18 seconds. Cloudy, no odour, some sediment. Approx 2 litres									
Depth to Base (m)	24.110										
DNAPL Present? (Y/N)	N	Sample Containers Obtained					3 x G, 1 x P, 2 x Pr, 2 x V				
Initial DNAPL Level (m)		Sample Collection Time					09:01:00 - 09:23				

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BH ID	RBH205										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.09	

Start Time:	09:46	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		10:01	11.06	834.76	0.63	7.58	-129.6	5.420		77.40	
Initial Water Level (m)	5.420	10:04	12.28	848.22	0.33	7.59	-130.8	5.420		75.38	
		10:07	12.45	868.31	0.24	7.59	-131.1	5.420		75.08	
LNAPL Present? (Y/N)	N	10:10	12.5	877.9	0.2	7.6	-131.7	5.420		73.65	
Initial LNAPL Level (m)		10:13	12.56	891.71	0.16	7.59	-131.5	5.420		73.85	
Well Headspace Reading (PID/FID)		10:16	12.7	905.61	0.15	7.59	-131.2	5.420		74.15	
		10:19	12.7	906.61	0.14	7.59	-131.3	5.420		74.05	
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section)	Peristaltic										
Pump Intake Depth (m)	22.000										
Depth to Base (m)	23.450	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. 40ml vial = 16 seconds, light brown, no odour, some sediment. Approx 5 li									
DNAPL Present? (Y/N)	N	Sample Containers Obtained 3 x G, 1 x P, 2 x Pr, 2 x V									
Initial DNAPL Level (m)		Sample Collection Time 10:19:00 - 10:35									

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BH ID	Unknown well inside furthest warehouse (RM advised) - PURGE										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	0		
Start Time:	11:00	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:15	12.58	795.62	1.58	7.59	-138.9			66.45	
Initial Water Level (m)	6.710	11:30	12.23	798.65	1.49	7.59	-138.5			67.68	
LNAPL Present? (Y/N)	N										
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	Other										
Sampling Method (Give details in Notes section)											
Pump Intake Depth (m)											
Depth to Base (m)	18.570	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. 72 litres developed by bailer									
DNAPL Present? (Y/N)	N	Sample Containers Obtained None									
Initial DNAPL Level (m)		Sample Collection Time									

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		Groundwater Sampling Data Form			
		This form is also available for RSK Mobile Data Capture.			
Project Information	Project Name:		Danzick Street		
	Project Number:		4328		
	Sampling Date:		19/01/2023	Sampled by:	AS
	Weather:		overcast 4C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AQURA TROLL 848941		
	Water Quality Meter Last Calibrated:		19/01/2023		
	Dissolved oxygen probe last calibrated:				
	Water Level Meter Used (X that applicable):				
	Interface probe	x	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH1											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	top							Offset from datum to GL (m):		-0.09		
Start Time:	12:45	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)		Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50									SmartTroll	<Select Probe	
Well Material		12:49	10.3	709.2	1.35	6.6	74.8	4.35		282.62		
Initial Water Level (m)	4.34	12:52	10.9	706.7	1.18	6.6	47.8	4.35		254.80		
		12:55	11.1	711.5	1.05	6.6	23.4	4.35		230.40		
LNAPL Present? (Y/N)	n	12:58	11.3	726.8	0.93	6.6	-15.5	4.35		191.50		
Initial LNAPL Level (m)		13:01	11.5	759.3	0.79	6.63	-52.9	4.35		153.28		
Well Headspace Reading (PID/FID)	0.8	13:04	11.6	815.3	0.66	6.68	-85.8	4.35		120.38		
		13:07	11.6	976.6	0.42	6.79	-127.8	4.35		78.38		
Purge Method (Give details in Notes section)	LowFlow	13:10	11.6	1033	0.28	6.89	-160.6	4.35		45.58		
		13:13	11.6	1080	0.20	6.94	-176.3	4.35		29.88		
Sampling Method (Give details in Notes section.)	Peristaltic	13:16	11.5	1053	0.26	6.94	-177.9	4.35		28.28		
		13:19	11.5	1060	0.27	6.96	-183.0	4.35		23.18		
Pump Intake Depth (m)	5.40											
Depth to Base (m)	14.15	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. clear slightly hydrocarbon smell. 19s to fill 40ml vial										
DNAPL Present? (Y/N)	n	Sample Containers Obtained 3x 1L glass 1x 500ML plastic 1x yellow 1x red 1x 40ML vial										
Initial DNAPL Level (m)		Sample Collection Time 13:20										

BH ID	RBH3										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.07		
Start Time:	14:15	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)		Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
		14:19	10.4	811.1	5.20	6.73	-2.6	6.40		205.22	
Initial Water Level (m)	6.39	14:22	10.7	810.4	5.10	6.73	4.5	6.40		211.50	
		14:25	10.8	808.4	5.07	6.71	5.07	6.40		212.07	
LNAPL Present? (Y/N)	n	14:28	10.9	808.8	5.01	6.71	15.20	6.40		222.20	
Initial LNAPL Level (m)		14:31	11.0	808.8	4.97	6.71	19.60	6.40		226.60	
Well Headspace Reading (PID/FID)	2.8										
Purge Method (Give details in Notes section.)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.40	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.									
Depth to Base (m)	18.40										
DNAPL Present? (Y/N)	n	Sample Containers Obtained					3x 1L glass 1x 500ML plastic 1x yellow 1x red 1x 40ML vial				
Initial DNAPL Level (m)		Sample Collection Time					14:32				

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BH ID	RBH203										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):			
Start Time:	15:00	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)		Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		15:08	11.1	1169	3.32	6.50	38.3	6.41		245.30	
Initial Water Level (m)	6.41	15:11	11.5	1160	3.01	6.51	41.4	6.41		247.58	
		15:14	11.6	1123	2.80	6.51	43.4	6.41		249.58	
LNAPL Present? (Y/N)	n	15:17	11.6	1091	2.60	6.52	45.0	6.41		251.18	
Initial LNAPL Level (m)		15:20	11.7	1065.7	2.30	6.50	45.7	6.41		251.88	
Well Headspace Reading (PID/FID)	18.9	15:23	11.7	1047	2.07	6.56	46.2	6.41		252.38	
		15:26	11.7	1027	1.89	6.57	46.6	6.41		252.78	
Purge Method (Give details in Notes section.)	LowFlow	15:29	11.7	1037	1.94	6.56	47.3	6.41		253.48	
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.45	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.									
Depth to Base (m)	15.48										
DNAPL Present? (Y/N)	n	Sample Containers Obtained					3x 1L glass 1x 500ML plastic 1x yellow 1x red 1x 40ML vial				
Initial DNAPL Level (m)		Sample Collection Time					15:31				

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BH ID	RBH302										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.07	
Start Time:	08:15	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
		08:18	11.3	830.4	3.82	6.58	253.9	6.5	115	460.90	
Initial Water Level (m)	6.48	08:21	11.3	843.8	4.07	6.63	248.7	6.5	103.1	455.70	
		08:24	11.3	850.9	4.08	6.65	242.3	6.5	80.2	449.30	
LNAPL Present? (Y/N)	n	08:27	11.3	860.6	4.21	6.66	236.6	6.5	54.9	443.60	
Initial LNAPL Level (m)		08:30	11.3	862	4.29	6.66	232.9	6.5	47	439.90	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.50										
Depth to Base (m)	11:31	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					slightly cloudy/ no odour. 22s to fill 40ml				
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1l glas 2x 40ml vial 1x yellow 1x red 1xblue 2 x plastic				
Initial DNAPL Level (m)		Sample Collection Time					08:32				

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BH ID	RBH203										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.14	
Start Time:	09:00	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		09:02	11.4	956	2.05	6.55	217.1	6.60	1.60	424.10	
Initial Water Level (m)	6.6	09:05	11.5	968.5	1.56	6.55	215.8	6.60	0.60	421.98	
		09:08	11.5	974.4	1.52	6.55	214.8	6.60	0.50	420.98	
LNAPL Present? (Y/N)	n	09:11	11.5	975.5	1.5	6.54	214	6.60	0.60	420.18	
Initial LNAPL Level (m)		09:14	11.5	980.4	1.51	6.54	213	6.60	0.80	419.18	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.60										
Depth to Base (m)	15.46	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					clear no odour. 18 S to fill 40ml vial				
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1l glas 2x 40ml vial 1x yellow 1x red 1xblue 2 x plastic				
Initial DNAPL Level (m)		Sample Collection Time					09:16				

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Measurement Datum:	TOP							Offset from datum to GL (m):	-0.17		
Start Time:	11:00	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:06	13.6	873.3	4.97	6.85	171.6	5.49	702.4	376.12	
Initial Water Level (m)	5.47	11:09	13.1	883.3	4.81	6.89	171.2	5.495	565.3	376.55	
		11:12	13.2	920.3	4.45	6.88	171	5.5	526.6	376.35	
LNAPL Present? (Y/N)	N	11:15	13.3	992.80	3.73	6.82	172.8	5.505	360.3	378.15	
Initial LNAPL Level (m)		11:18	13.3	1028	3.18	6.79	172.2	5.505	354.6	377.55	
Well Headspace Reading (PID/FID)	0	11:21	13.4	1047	2.79	6.77	172.7	5.505	270.6	378.05	
		11:24	13.4	1058.3	2.67	6.77	171.8	5.505	277.6	377.15	
Purge Method (Give details in Notes section)	LowFlow	11:27	13.7	1067	2.56	6.76	170.6	5.505	250.4	375.12	
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	6.50										
Depth to Base (m)	7.55	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					cloudy ,bright brown colour no odour. 51s to fill 40ml vial				
DNAPL Present? (Y/N)	N	Sample Containers Obtained					2 x 1l glas 2x 40ml vial 1x yellow 1x red 1xblue 2 x plastic				
Initial DNAPL Level (m)		Sample Collection Time					11:28				

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BH ID	RBH301										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:								Offset from datum to GL (m):	-0.09		
Start Time:	12:25	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									YSI	<Select Probe
Well Material		12:29	13.1	1508.2	0.33	6.88	-152.2	4.645	1772.3	53.15	
Initial Water Level (m)	4.63	12:32	12.8	1517	0.22	6.91	-161.3	4.645	1804	44.05	
		12:35	12.8	1519	0.2	6.92	-166.9	4.645	1732	38.45	
LNAPL Present? (Y/N)		12:38	13.2	1519.3	0.21	6.92	-168.9	4.645	1520.5	36.45	
Initial LNAPL Level (m)		12:41	13.0	1515	0.21	6.93	-170.3	4.645	1416	35.05	
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	5.65										
Depth to Base (m)	8.58	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					very cloudy to brown colour no odour. 22s to fill 40ml vial				
DNAPL Present? (Y/N)		Sample Containers Obtained					2 x 1l glas 1x 40ml vial 1x yellow 1x red 1xblue 2 x plastic				
Initial DNAPL Level (m)		Sample Collection Time					12:42				

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Measurement Datum:	TOP						Offset from datum to GL (m):		-0.07		
Start Time:	14:40	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		14:48	12.6	801.8	4.78	6.72	54.1	6.59	32.9	259.45	
Initial Water Level (m)	6.56	14:51	12.3	801.5	4.77	6.68	63.2	6.59	24.5	269.38	
		14:54	12.1	802.7	4.78	6.67	68.6	6.59	21.2	274.78	
LNAPL Present? (Y/N)	N	14:57	12.0	799.40	4.77	6.67	72.5	6.59	12.5	278.68	
Initial LNAPL Level (m)		15:00	11.9	799.6	4.77	6.67	75.6	6.59	15.9	281.78	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.60	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					clear no odour. 17s to fill 40ml vial				
Depth to Base (m)	18.40										
DNAPL Present? (Y/N)	N	Sample Containers Obtained					2 x 1l glas 2x 40ml vial 1x yellow 1x red 1xblue 2 x plastic				
Initial DNAPL Level (m)		Sample Collection Time					15:01				

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BH ID											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:							Offset from datum to GL (m):				
Start Time:		Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)										YSI	<Select Probe
Well Material											
Initial Water Level (m)											
LNAPL Present? (Y/N)											
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.									
Depth to Base (m)											
DNAPL Present? (Y/N)		Sample Containers Obtained					3x 1L glass 1x 500ML plastic 1x yellow 1x red 1x 40ML vial				
Initial DNAPL Level (m)		Sample Collection Time									

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		10/05/2023	Sampled by:	IB
	Weather:		Showers 14C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AquaTroll 978034		
	Water Quality Meter Last Calibrated:		X		
	Dissolved oxygen probe last calibrated:		X		
	Water Level Meter Used (X that applicable):				
	Interface probe	x	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
		Oxygen Reduction Potential (ORP)		10mV	
					* For REDOX correction, see separate guidance

BH ID	RBH301											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:									Offset from datum to GL (m):	-0.09		
Start Time:	09:00	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		09:10	12.60	1577.40	0.59	6.92	-47.90	4.66	1820.19	165.20		
Initial Water Level (m)	4.64	09:13	12.43	1579.80	0.42	6.93	-57.20	4.65	1928.52	156.60		
		09:16	12.48	1582.00	0.33	6.93	-64.80	4.65	2195.63	149.00		
LNAPL Present? (Y/N)	n	09:19	12.36	1580.80	0.32	6.94	-67.70	4.66	2278.68	146.10		
Initial LNAPL Level (m)		09:22	12.48	1582.40	0.31	6.94	-72.30	4.66	2459.75	141.50		
Well Headspace Reading (PID/FID)												
Purge Method (Give details in Notes section)	LowFlow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	5.70											
Depth to Base (m)	8.61	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, Red brown sediment					
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial					
Initial DNAPL Level (m)		Sample Collection Time										

BH ID	RBH302										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.07		
Start Time:	10:14	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
		10:24	12.39	852.45	4.00	6.76	155.00	6.50	1539.70	368.80	
Initial Water Level (m)	6.48	10:27	11.97	856.49	3.76	6.73	159.40	6.50	1295.20	373.20	
		10:30	11.81	873.81	4.11	6.72	164.80	6.50	908.58	378.60	
LNAPL Present? (Y/N)	n	10:33	11.80	880.63	4.19	6.71	168.70	6.50	826.51	382.50	
Initial LNAPL Level (m)		10:36	11.78	891.71	4.34	6.71	171.60	6.50	643.86	385.40	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section.)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.50	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Translucent, sediment									
Depth to Base (m)	11.23										
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	RBH203										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.14		
Start Time:	11:09	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:15	11.82	887.22	1.78	6.71	180.90	6.61	80.88	394.70	
Initial Water Level (m)	6.60	11:18	11.72	893.92	1.12	6.70	180.90	6.61	44.14	394.70	
		11:21	11.70	905.81	1.05	6.69	180.60	6.61	39.77	394.40	
LNAPL Present? (Y/N)	n	11:24	11.66	912.24	0.97	6.69	179.50	6.61	33.93	393.30	
Initial LNAPL Level (m)		11:27	11.67	905.34	0.95	6.69	178.20	6.61	39.64	392.00	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section.)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.60	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Translucent, sediment									
Depth to Base (m)	15.46										
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									



Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street			
	Project Number:		4328			
	Sampling Date:		10/05/2023	Sampled by:		IB
	Weather:		Showers 14C			
	Well Notes - e.g. Condition, access, safety:					
Monitoring Information	Water Quality Meter Used:		AquaTroll 978034			
	Water Quality Meter Last Calibrated:		X			
	Dissolved oxygen probe last calibrated:		X			
	Water Level Meter Used (X that applicable):					
	Interface probe	x	Dip Meter			
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l	
			Specific Conductivity (Sp.Cond)		3%	
			p.H		0.1 unit	
			Oxygen Reduction Potential (ORP)		10mV	
			* For REDOX correction, see separate guidance			

BH ID	LK BH03										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.07		
Start Time:	11:59	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		12:07	11.60	839.24	5.06	6.80	184.80	6.61	83.63	390.98	
Initial Water Level (m)	6.59	12:10	11.61	840.90	4.95	6.80	187.00	6.61	91.54	393.18	
LNAPL Present? (Y/N)	N	12:13	11.59	840.18	4.89	6.80	188.70	6.61	66.31	394.88	
Initial LNAPL Level (m)		12:16	11.56	839.19	4.87	6.80	190.10	6.61	63.83	396.28	
		12:19	11.53	838.06	4.86	6.80	191.40	6.61	35.64	397.58	
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	7.60	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, slight sediment.				
Depth to Base (m)	18.41										
DNAPL Present? (Y/N)	N	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	RBH304										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										

Measurement Datum:	top						Offset from datum to GL (m):		-0.1		
Start Time:	12:30	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Initial Water Level (m)	7.24										
LNAPL Present? (Y/N)	n										
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)	0										
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Insufficient water				
Depth to Base (m)	7.30										
DNAPL Present? (Y/N)	n	Sample Containers Obtained									
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	RBH303										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP						Offset from datum to GL (m):		-0.1		
Start Time:	13:38	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		13:44	14.08	717.82	3.38	6.39	212.70	6.06	367.40	417.22	
Initial Water Level (m)	6.05	13:47	13.38	718.59	2.96	6.38	214.10	6.06	318.40	419.45	
		13:50	13.30	720.73	2.88	6.38	213.70	6.06	310.88	419.05	
LNAPL Present? (Y/N)	n	13:53	14.19	692.05	4.05	6.45	210.80	6.06	298.90	415.32	
Initial LNAPL Level (m)		13:56	14.42	681.01	5.27	6.52	209.30	6.06	313.51	413.82	
Well Headspace Reading (PID/FID)	0	13:59	14.53	1.91	6.67	6.84	198.00	6.05	5.53	401.68	rain affect pump
		14:02	13.83	702.68	5.44	6.52	210.20	6.06	385.62	414.72	
Purge Method (Give details in Notes section)	LowFlow	14:05	13.01	713.53	3.46	6.43	213.70	6.06	383.67	419.05	
		14:08	12.73	720.08	3.19	6.41	214.40	6.07	337.42	419.75	
Sampling Method (Give details in Notes section.)	Peristaltic	14:11	12.62	728.98	2.85	6.39	214.70	6.07	309.10	420.05	
		14:14	12.52	730.66	2.70	6.39	214.30	6.07	350.05	419.65	
Pump Intake Depth (m)	7.10	14:17	12.51	731.85	2.73	6.39	214.00	6.07	324.61	419.35	
Depth to Base (m)	8.48	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, sediment				
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		11/05/2023	Sampled by:	IB
	Weather:		Cloud 14C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AquaTroll 978034		
	Water Quality Meter Last Calibrated:		X		
	Dissolved oxygen probe last calibrated:		X		
	Water Level Meter Used (X that applicable):				
	Interface probe	x	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
Oxygen Reduction Potential (ORP)			10mV		
					* For REDOX correction, see separate guidance

BH ID	RBH306										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.12		
Start Time:	08:23	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		08:29	14.04	2027.50	1.47	6.52	38.90	4.95	65.08	243.42	
Initial Water Level (m)	4.89	08:32	14.26	2001.60	0.75	6.50	28.00	4.94	71.00	232.52	
LNAPL Present? (Y/N)	n	08:35	14.57	1977.50	0.52	6.50	19.30	4.95	92.75	222.98	
Initial LNAPL Level (m)		08:38	14.82	2029.80	0.42	6.50	15.80	4.96	78.09	219.48	
Well Headspace Reading (PID/FID)	0	08:41	15.00	2039.10	0.35	6.49	14.90	4.96	95.90	218.58	
Purge Method (Give details in Notes section)	LowFlow	08:44	15.18	2038.10	0.32	6.50	10.70	4.96	95.02	214.38	
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	6.00	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, sediment				
Depth to Base (m)	10.82										
DNAPL Present? (Y/N)	n	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	RBH305										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										

Measurement Datum:	TOP							Offset from datum to GL (m):		-0.17	
Start Time:	11:40	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50									SmarTroll	<Select Probe
Well Material		11:46	13.79	1050.60	3.46	6.89	188.10	5.52		392.62	9588.3 NTU
Initial Water Level (m)	5.50	11:49	13.51	1108.40	2.94	6.81	188.10	5.53		392.62	120007 NTU
		11:52	13.54	1164.10	2.36	6.76	186.50	5.53		391.02	9074 NTU
LNAPL Present? (Y/N)	N	11:55	13.25	1217.00	2.12	6.71	186.80	5.53	2953.90	392.15	
Initial LNAPL Level (m)		11:58	13.16	1231.60	2.11	6.66	189.50	5.54	1163.00	394.85	
Well Headspace Reading (PID/FID)	0	12:01	13.04	1245.30	1.94	6.65	190.20	5.54	929.69	395.55	
Purge Method (Give details in Notes section)	LowFlow										over 5000 NTU in
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)	6.50	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, Red/brown sediment				
Depth to Base (m)	7.48										
DNAPL Present? (Y/N)	N	Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	SS304										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:								Offset from datum to GL (m):			
Start Time:	11:08	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)										YSI	<Select Probe
Well Material			14.1	524.7	9.44	7.98	146.37		12.21		
Initial Water Level (m)											
LNAPL Present? (Y/N)											
Initial LNAPL Level (m)											
Well Headspace Reading (PID/FID)											
Purge Method (Give details in Notes section)	LowFlow										
Sampling Method (Give details in Notes section.)	Peristaltic										
Pump Intake Depth (m)		Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Clear, slight sediment				
Depth to Base (m)											
DNAPL Present? (Y/N)		Sample Containers Obtained					2 x 1L Glass, 2 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 2 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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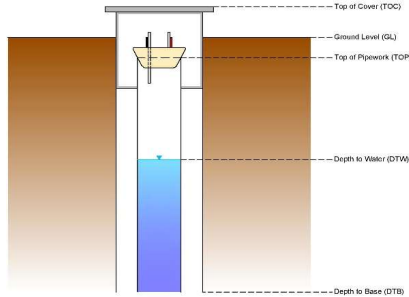


Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street							
	Project Number:		4328							
	Sampling Date:		13th November	Sampled by:	P.Nicol					
	Weather:									
	Well Notes - e.g. Condition, access, safety:									
Monitoring Information	Water Quality Meter Used:		Aquatroll 978172							
	Water Quality Meter Last Calibrated:		13.11.23							
	Dissolved oxygen probe last calibrated:		13.11.23							
	Water Level Meter Used (X that applicable):									
	Interface probe		Dip Meter	X						
						Typical Parameter		Dissolved Oxygen (D.O.)		0.3 mg/l
						Stabilisation Criteria for Low-Flow Sampling		Specific Conductivity (Sp.Cond)		3%
						p.H		0.1 unit		
		Oxygen Reduction Potential (ORP)		10mV						
					* For REDOX correction, see separate guidance					

BH ID	RBH203											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.12		
Start Time:	13:55	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		14:12	11.57	1142.50	1.58	6.84	-52.50	6.27		153.68		
Initial Water Level (m)	6.27	14:15	11.74	1133.90	0.71	6.77	-53.40	6.27		152.78		
LNAPL Present? (Y/N)	N	14:18	11.80	1122.90	0.55	6.76	-54.00	6.27		152.18		
Initial LNAPL Level (m)		14:21	11.83	1120.70	0.48	6.75	-55.90	6.27		150.28		
Well Headspace Reading (PID/FID)	0.0	14:24	11.85	1126.70	0.43	6.74	-56.40	6.27		149.78		
Purge Method (Give details in Notes section)	LowFlow	14:27	11.86	1123.80	0.40	6.74	-56.80	6.27		149.38		
Sampling Method (Give details in Notes section)	Peristaltic											
Pump Intake Depth (m)	14.90											
Depth to Base (m)	15.40	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Clear, no odour or sediment. 40ml vial = 18 seconds. Approx 3 litres purged					
DNAPL Present? (Y/N)	N	Sample Containers Obtained					4 x 500ml glass, 1 x 500ml plastic, 3 x pr, 1 x 40ml vial					
Initial DNAPL Level (m)		Sample Collection Time					14:27:00 - 14:55					

		Groundwater Sampling Data Form			
		This form is also available for RSK Mobile Data Capture.			
Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		13th November 2023	Sampled by:	P.Nicol
	Weather:		Overcast		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		Aquatroll 978172		
	Water Quality Meter Last Calibrated:		13.11.23		
	Dissolved oxygen probe last calibrated:		13.11.23		
	Water Level Meter Used (X that applicable):				
	Interface probe		Dip Meter	X	
					
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
			Oxygen Reduction Potential (ORP)		10mV
			* For REDOX correction, see separate guidance		

BH ID	RBH504											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.13			
Start Time:	10:10	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	50											
Well Material		10:22	12.51	1823.50	1.71	6.66	202.20	6.92		407.55		
Initial Water Level (m)	6.88	10:25	12.54	1820.70	1.20	6.60	144.30	6.92		349.65		
		10:28	12.55	1819.70	1.10	6.58	75.40	6.92		280.75		
LNAPL Present? (Y/N)	N	10:31	12.55	1818.70	1.06	6.57	10.30	6.92		215.65		
Initial LNAPL Level (m)		10:34	12.54	1817.70	1.04	6.56	-46.10	6.92		159.25		
Well Headspace Reading (PID/FID)	0.0	10:37	12.59	1817.50	1.01	6.56	-76.20	6.92		129.15		
Purge Method (Give details in Notes section)	LowFlow	10:40	12.56	1815.50	0.96	6.56	-82.20	6.92		123.15		
Sampling Method (Give details in Notes section)	Peristaltic	10:43	12.56	1814.90	0.94	6.56	-85.20	6.92		120.15		
Pump Intake Depth (m)	10.70											
Depth to Base (m)	11.21	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Light brown in colour, some sediment, no odour. 40 ml vial = 17 seconds.					
DNAPL Present? (Y/N)	N	Sample Containers Obtained					4 x 500ml glass, 1 x 500ml p, 3 x pr, 1 x vial					
Initial DNAPL Level (m)		Sample Collection Time					10:44:00 - 11:08					



Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzie Street		
	Project Number:		4328		
	Sampling Date:		13/11/2023	Sampled by:	IB
	Weather:		Overcast 8C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AquaTroll 978034		
	Water Quality Meter Last Calibrated:		13.11.23		
	Dissolved oxygen probe last calibrated:		13.11.23		
	Water Level Meter Used (X that applicable):				
	Interface probe	x	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
p.H			0.1 unit		
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	RBH503										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.09		
Start Time:	09:53	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)
Well Diameter (mm)	50										
Well Material	HDPE	10:03	12.23	1423.90	1.72	6.75	-236.20	4.720		-30.02	
Initial Water Level (m)	4.695	10:06	12.46	1410.80	0.89	6.81	-272.10	4.720		-65.92	
LNAPL Present? (Y/N)	n	10:09	12.61	1408.70	0.70	6.83	-289.20	4.730		-83.85	
Initial LNAPL Level (m)		10:12	12.68	1404.30	0.50	6.84	-298.60	4.730		-93.25	2.5L
Well Headspace Reading (PID/FID)	0.1	10:15	12.77	1408.00	0.45	6.85	-303.30	4.730		-97.95	
Purge Method (Give details in Notes section)	LowFlow	10:18	12.78	1407.40	0.37	6.85	-309.60	4.730		-104.25	
Sampling Method (Give details in Notes section.)	Peristaltic	10:21	12.83	1412.80	0.34	6.85	-313.80	4.730		-108.45	
Pump Intake Depth (m)	8.700	10:24	12.84	1403.00	0.31	6.86	-319.40	4.730		-114.05	
Depth to Base (m)	9.230	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected.					Translucent, Red brown sediment				
DNAPL Present? (Y/N)	N	Sample Containers Obtained					4 x 500ml Glass, 1 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 1 x Vial				
Initial DNAPL Level (m)		Sample Collection Time									

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BH ID	RBH502 P1										
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.										
Measurement Datum:	TOP							Offset from datum to GL (m):	-0.07		
Start Time:	14:27	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.06		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: RBH505				Monitoring Round Number:1				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other 35 (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m)		Base Depth (m)									
		09:30		-		-		4.45		14.32					
Stage 2 Sampling		:		Purge Method: Low Flow Peristaltic				Purge Water Discharged to: IBC							
		:		Pump Intake Depth: 13.70 (m)											
		:		Hole Purged: Yes / No		Purge Start :									
		:		Purge Volume: ~2 (ltrs)		Purge End :		Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
		09:38		7.49		-42.80		786.00		11.9		0.84		4.62	
		09:41		7.48		-35.50		785.00		11.8		0.84		4.99	
		09:43		7.51		-49.20		789.00		11.9		0.66		5.28	
		09:46		7.53		-52.80		791.00		12.0		0.60		5.59	
		09:49		7.53		-54.80		790.00		11.9		0.54		5.89	
		:													
		:													
		:													
		:													
		:													
		:													
:															
Post Test Remarks:				Samples Taken: Yes				Gas / Water							
Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. Translucent Brown, PID 0.3ppm				Depth (from datum)		Sample Ref		Sample Type		Container					
										2G,1P,1V,HN					
STRUCTURAL SOILS				Contract Name: Dantzie Street				Contract Ref: 4328		Data Collected By:ML					
				Project Manager / Engineer: Reece McGuinness				Page: 1 of 6		Checked:					

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.06		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: RBH505				Monitoring Round Number:1				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m) / Base Depth (m)		4.26		11.79							
		11:17		- / -											
Stage 2 Sampling		:		Purge Method: Low Flow Peristaltic				Purge Water Discharged to: IBC							
		:		Pump Intake Depth: 11.50 (m)											
		:		Hole Purged: Yes / No				Purge Start :							
		:		Purge Volume: ~2 (ltrs)				Purge End : Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
		11:18		7.58		-118.30		842.00		11.7		6.54		4.27	
		11:21		7.32		-104.90		1564.00		11.8		2.02		4.27	
		11:24		7.27		-110.40		1565.00		12.0		1.54		4.27	
		11:27		7.25		-114.50		1571.00		12.1		0.97		4.27	
		11:30		7.25		-117.30		1576.00		12.1		0.85		4.27	
		11:33		7.25		-118.90		1582.00		12.1		0.80		4.27	
		:													
		:													
		:													
		:													
		:													
		:													
:															
Post Test Remarks: Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. Translucent Brown, PID 1.5ppm						Samples Taken: Yes				Gas / Water					
						Depth (from datum)		Sample Ref		Sample Type		Container			
												4G(500ml),1P,			
STRUCTURAL SOILS						Contract Name: Dantzie Street				Contract Ref: 4328		Data Collected By:ML			
						Project Manager / Engineer: Reece McGuinness				Page: 2 of 6		Checked:			

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.09		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: WS311				Monitoring Round Number:1				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m) / Base Depth (m)		0.31		1.50							
		12:05		- / -											
Stage 2 Sampling		:		Purge Method: Low Flow Peristaltic				Purge Water Discharged to: IBC							
		:		Pump Intake Depth: 1.00 (m)											
		:		Hole Purged: Yes / No				Purge Start :							
		:		Purge Volume: ~2.5 (ltrs)				Purge End : Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
		12:11		8.70		-124.50		8082.00		11.7		3.85		0.32	
		12:14		8.83		-172.40		8231.00		11.5		0.94		0.32	
		12:17		8.87		-196.80		8228.00		11.3		0.49		0.32	
		12:20		8.86		-201.50		8224.00		11.2		0.42		0.32	
		12:23		8.86		-205.80		8159.00		11.0		0.35		0.32	
		12:26		8.87		-210.30		8075.00		10.8		0.30		0.32	
		:													
		:													
		:													
		:													
		:													
		:													
:															
Post Test Remarks: Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. Translucent Dark Brown - lechate type. PID 0.2ppm						Samples Taken: Yes				Gas / Water					
						Depth (from datum)		Sample Ref		Sample Type		Container			
												4G(500ml),1P,			
STRUCTURAL SOILS						Contract Name: Dantzie Street				Contract Ref: 4328		Data Collected By:ML			
						Project Manager / Engineer: Reece McGuinness				Page: 3 of 6		Checked:			

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.15		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: RBH401				Monitoring Round Number:				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m)		Base Depth (m)									
		13:20		-		-		15.60		15.60					
Stage 2 Sampling		:		Purge Method: Bailer				Purge Water Discharged to:							
		:		Pump Intake Depth: (m)											
		:		Hole Purged: Yes / No		Purge Start :									
		:		Purge Volume: (lts)		Purge End :		Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		:													
		Post Test Remarks:						Samples Taken: Yes / No		Gas / Water					
Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. PID 0ppm						Depth (from datum)		Sample Ref		Sample Type		Container			
												1G,1P,1V,HN			
STRUCTURAL SOILS						Contract Name: Dantzie Street				Contract Ref: 4328		Data Collected By:ML			
						Project Manager / Engineer: Reece McGuinness				Page: 4 of 6		Checked:			

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.05		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: RBH403				Monitoring Round Number:				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m)		Base Depth (m)									
		13:23		-		-		13.76		15.97					
Stage 2 Sampling		:		Purge Method: Low Flow Peristaltic				Purge Water Discharged to:							
		:		Pump Intake Depth: 1 (m)											
		:		Hole Purged: Yes / No		Purge Start :									
		:		Purge Volume: (ltrs)		Purge End :		Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
Post Test Remarks:						Samples Taken: Yes / No Gas / Water									
Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. PID 0.1ppm						Depth (from datum)		Sample Ref		Sample Type		Container			
STRUCTURAL SOILS				Contract Name: Dantzie Street				Contract Ref: 4328		Data Collected By:ML					
				Project Manager / Engineer: Reece McGuinness				Page: 5 of 6		Checked:					

WATER MONITORING FIELD SHEET

Monitoring Date: 13.11.2023		Measurement datum: GL / Top of pipe / Other _____		Offset to GL: (m) -0.15		Multi Meter Type & No		Probe Type		Calibration Check OK Date:-					
Pre-Testing Remarks:				Air Temperature: 10 °C		Weather:		YSI		13.11.23					
				Overcast				19G102626		EC		13.11.23			
				Ground Conditions: Wet						DO		13.11.23			
				Wind: NONE / LIGHT / MEDIUM / STRONG						ORP		13.11.23			
										TURB (ifReq)					
Exploratory Position ID: RBH305				Monitoring Round Number:				Test Number:							
Install Type: SINGLE / DOUBLE						Pipe Ref: 1) SHALLOW / 2) DEEP									
Pipe Diameter: 19mm / 40mm / 50mm / Other (mm)															
Test Sequence		Time of Monitoring		Free Phase Product		Water Depth (m)		Well Depth (m)							
Stage 1 Water Level		hh:mm		Top Depth (m) / Base Depth (m)		5.25		7.54							
		13:30		- / -											
Stage 2 Sampling		:		Purge Method: Low Flow Peristaltic				Purge Water Discharged to: IBC							
		:		Pump Intake Depth: 7 (m)											
		:		Hole Purged: Yes / No				Purge Start :							
		:		Purge Volume: ~3 (ltrs)				Purge End : Pump Cell Tubing:							
Stage 3 Purge Information		Time of Monitoring		pH		ORP (mV)		Conductivity (uS/cm)		Temperature (Deg C)		Dissolved Oxygen (mg/l)		DTW(m)	
		hh:mm													
		13:35		8.09		-17.90		1067.00		12.6		4.91		5.27	
		13:38		7.71		-8.10		938.00		12.7		4.59		5.27	
		13:41		7.60		-2.30		904.00		13.0		4.40		5.28	
		13:44		7.53		1.00		890.00		13.0		4.34		5.29	
		13:47		7.49		3.00		879.00		13.1		4.34		5.30	
		:													
		:													
		:													
		:													
		:													
		:													
:															
Post Test Remarks: Note: Fieldsheets should include uncompensated ORP data from the meter. Post-processing standardisation to ORP are performed by the data processing team on entry into gINT. Translucent Brown with sediment. PID 0.0ppm						Samples Taken: Yes / No				Gas / Water					
						Depth (from datum)		Sample Ref		Sample Type		Container			
												4G(500ml), 1P,			
STRUCTURAL SOILS						Contract Name: Dantzic Street				Contract Ref: 4328		Data Collected By: ML			
						Project Manager / Engineer: Reece McGuinness				Page: 6 of 6		Checked:			



Groundwater Sampling Data Form

This form is also available for RSK Mobile Data Capture.

Project Information	Project Name:		Dantzic Street		
	Project Number:		4328		
	Sampling Date:		20/11/2023	Sampled by:	IB
	Weather:		Inside 8C		
	Well Notes - e.g. Condition, access, safety:				
Monitoring Information	Water Quality Meter Used:		AquaTroll 978034		
	Water Quality Meter Last Calibrated:		20.11.23		
	Dissolved oxygen probe last calibrated:		20.11.23		
	Water Level Meter Used (X that applicable):				
	Interface probe	x	Dip Meter		
	Typical Parameter Stabilisation Criteria for Low-Flow Sampling		Dissolved Oxygen (D.O.)		0.3 mg/l
			Specific Conductivity (Sp.Cond)		3%
			p.H		0.1 unit
Oxygen Reduction Potential (ORP)			10mV		
* For REDOX correction, see separate guidance					

BH ID	ROC BH502 P2											
Measurement Datum Notes:	Top Of Cover (TOC), Ground Level (GL), Top Of Pipework (TOP). If 'Ground Level', the offset from datum to GL will be 0m. Record a positive offset if the datum is higher than GL or a negative offset if the datum is below GL. See figure above for definitions.											
Measurement Datum:	TOP							Offset from datum to GL (m):		-0.09		
Start Time:	09:53	Time (HH:MM)	Temp (oC)	Sp.Cond (µS/cm)	D.O. (mg/l)	pH (units)	ORP (mV)	Depth to Water (m)	Turbidity (NTU)	Corr. REDOX (mV)	Notes / Flow (ml/min)	
Well Diameter (mm)	25											
Well Material	HDPE	10:15	11.61	1025.80	3.32	7.24	-54.60	6.90		151.58		
Initial Water Level (m)	6.610	10:18	11.68	1025.00	2.40	7.24	-78.40	7.21		127.78		
LNAPL Present? (Y/N)	n											
Initial LNAPL Level (m)												
Well Headspace Reading (PID/FID)	0.0											
Purge Method (Give details in Notes section)	LowFlow											
Sampling Method (Give details in Notes section.)	Peristaltic											
Pump Intake Depth (m)	18.900	Sampling Notes (e.g. oil/colour/odour), reasons if not monitored, include purge / sampling method if "Other" selected. Translucent, Red brown sediment Sampled without stabilisation as water level dropping										
Depth to Base (m)	19.410											
DNAPL Present? (Y/N)	n	Sample Containers Obtained		4 x 500ml Glass, 1 x 500ml Plastic, 1 x Red, 1 x Blue, 1 x Yellow, 1 x Vial								
Initial DNAPL Level (m)		Sample Collection Time										



COMPLEX CHALLENGES ...
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APPENDIX F – EQUIPMENT CALIBRATION

Instrument Service Report

<u>Unit Type:</u> GA5000	<u>Part Number:</u> GA5KB0C0-101	<u>Date:</u> 27-Jul-2023	<u>Next Service Due:</u> 20-Jan-2024	<u>Customer Name:</u> RSK Environment Limited
<u>Serial Number:</u> G507778				

Thank you for returning your gas analyser to the QED Service Centre for full service and calibration. We are pleased to inform you that the analyser was received and fully assessed by one of our experienced Service Engineers.

We have replaced the battery because it is over 2 years old. This is in accordance to the battery cell manufacturer's recommendation.

The CO and H2S electrochemical sensors have been replaced due to being over 2 years old in accordance with the manufacturer's recommendations, and also as a proactive measure based on our experience of the typical lifetime of these types of sensor.

Our extensive service was carried out, and any necessary components replaced. The analyser has successfully passed all of our rigorous testing and quality checks and has been calibrated using our bespoke, state of the art calibration facility.

For further information about how to get the best use from your instrument please visit our YouTube channel <http://www.youtube.com/GeotechTV> and on our Website <http://www.qedenv.com>

If you require any further assistance with your instrument please email our Technical Support Team at technical@qedenv.co.uk or call us on +44 (0) 333 800 0088 (Monday to Thursday 08.30 - 17.00 & Friday 08.30 - 15.30) UK time zone.

<u>Service Details:</u> Service Scheme ☒	<u>Service Engineer:</u> Nick Sidgwick	<u>Calibration Engineer:</u> Suk Balrey	<u>Approved By:</u> FZolota	<u>Signature:</u> 
Standard Service ☐				

Instrument Service Report

<u>Unit Type: GA5000</u>	<u>Part Number:</u>	<u>Date:</u>	<u>Next Service Due:</u>	<u>Customer Name:</u>
<u>Serial Number: G507778</u>	GA5KB0C0-101	27-Jul-2023	20-Jan-2024	RSK Environment Limited
Actions/Investigation Description	Result	Comments		
Final visual inspection on instrument	Pass			
Case assembly closed and screws tightened to correct torque	Yes			
PTFE filters replaced	Yes			
Pump flow greater than 550 ml/min	Pass			
Automated instrument pressure system test (leak test)	Pass			
Pump vacuum greater than -400 mb and flow fails	Pass			
GPS function test	NA			
Temperature probe tested	Pass			
Anemometer tested	Pass			
Chemical gas sensors calibrated – refer to Calibration Certificate	Retest Passed			
Check main PCB and sensor PCB have the latest software	Yes			
Transducers calibrated	Pass			
As Received Chemical Cell Gas Assessment Performed (CAL16)	Yes			
As Received Gas Assessment Performed (CAL01 or CAL02)	Yes			
Chemical sensor(s) replacement over 2yrs UK and 21mths overseas.	Yes			
O2 sensor replacement over 3yrs UK, 33mths overseas	Pass			

CERTIFICATION OF CALIBRATION



Date Of Calibration: 20-Jul-2023

Certificate Number: G507778_2/33211

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
1007	1007

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	500	500
H ₂ S	258.8	259

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5.0	5.1
10.0	10.0

Date of Issue : 27-Jul-2023

Approved by Signatory

Fani Zolota

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

**ESS**

Safety, Survey, Test & Measurement

RADIODETECTION **Certificate of Calibration****PASS**

Product: CAT4

Serial Number: 10/C4EN59-4345

Order Number: 58214878 - SF64412

Date of Issue: 25/10/22

Calibration due date: 26/10/23

Customer :
ROC CONSULTING

Radiodetection Calibration Data:

Date of Calibration : 25/10/22

Location of Calibration:

ESS , 2 Speedwell Road , Castleford , West Yorkshire , WF10 5PY ,

Environmental Temperature: N/A

Relative Humidity: N/A

Test Procedure: CAT4 Universal ASC No GPS.xls

Revision: 6.6.1

Traceability Information:

Technician ID: Service

Calibration Equipment Used:

Model Number	Model Description	Serial Number	Last Cal Date	Cal Due Date
33120A	Agilent Function Generator	MY44040213	10/12/2021	10/12/2022
34401A	Keysight Digital Multimeter	MY530916797	10/12/2021	10/12/2022
QL355TP	Thurlby Thandar Power Supply	387516	10/12/2021	10/12/2022

Calibration Results:

Frequency	Measured Value	Measurement Uncertainty	High Limit	Low Limit	Pass/Fail
635.0	0.9835	0.0005	1.10	0.88	Pass
22070.0	1.0198	0.0005	1.10	0.88	Pass
32788.0	1.0288	0.0005	1.10	0.88	Pass
131000.0	0.9717	0.0005	1.10	0.88	Pass

- 1.
- 2.
- 3.

Authorised Signatories:

David Hurley - Operations Director

Chris Willerton - Quality Representative



CALIBRATION CERTIFICATE

Certificate No: S28455

Date Inspected: 12/10/2022

Date Of Issue: 12/10/2022

Engineer: Luke Barlow

Next Inspection due: 12/10/2023

This is to certify that the above equipment has been tested and calibrated to manufactures specifications.

Fleet No: RADGENNY4/01

Description: Radiodetection Genny 4 Signal Generator

Serial No: 10/G4EN-3842

Test	Result
Calibration	Pass

3 months warranty on any labour carried out by Sealand Survey Centre Limited

12 months new parts warranty on new parts supplied.

If a new part supplied by Sealand Survey Centre Limited fails after 3 months from date of fitting, labour is still charged

It is recommended that the user of this equipment has undergone the relevant training to ensure it is used in the correct and safe manner. Sealand Survey Centre Ltd accepts no liability for any injury or incident as a result of misuse.

CERTIFICATION OF CALIBRATION



Date Of Calibration: 21-Mar-2023

Certificate Number: G503221_1/32470

Issued by: QED Environmental Systems Ltd.

Customer: Structural Soils Limited
Spring Lodge 172 Chester Road Helsby
Frodsham Cheshire WA6 0AR UNITED KINGDOM

Description: Gas Analyser

Model: GA5000

Serial Number: G503221

UKAS Accredited results:

Results after adjustment :

Methane (CH ₄)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	4.9	0.072
15.0	15.0	0.13
60.0	59.8	0.42

Carbon Dioxide (CO ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
5.0	5.0	0.074
15.0	15.0	0.13
40.0	40.2	0.29

Oxygen (O ₂)		
Certified Gas (%)	Instrument Reading (%)	Uncertainty (%)
21.5	21.5	0.25

The inwards assessment was carried out 14-Mar-2023.

The maximum adjustment is larger than the specification limit.

Inwards assessment data is available if requested.

All concentrations are molar.

CH₄, CO₂ readings recorded at : 31.0 °C ± 2.5 °C

O₂ readings recorded at : 22.6 °C ± 2.5 °C

Barometric Pressure : 0995 mbar ± 4 mbar

Method of Test : The analyser is calibrated in a temperature controlled chamber using a series of reference gases, in compliance with procedure LP004.

Instrument has passed calibration as the measurement result is within the specification limit. The specification limit takes into account the measurement uncertainty.

The results relate only to the item calibrated

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

CERTIFICATION OF CALIBRATION



Date Of Calibration: 21-Mar-2023

Certificate Number: G503221_1/32470

Issued by: QED Environmental Systems Ltd.

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

Calibrations marked 'Non-UKAS Accredited results' on this certificate have been included for completeness.

Non-UKAS accredited results after adjustment:

Barometer (mbar)	
Reference	Instrument Reading
995	996

Additional Gas Cells		
Gas	Certified Gas (ppm)	Instrument Reading (ppm)
CO	505	505
H ₂ S	52.6	53

Internal Flow	
Applied (l/hr)	Instrument Reading (l/hr)
5	5.2
10	10

Date of Issue : 22-Mar-2023

Approved by Signatory

Keeley Knight

Laboratory Inspection

End of Certificate

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Calibration Instance:117 IGC Instance:117

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QED Environmental Systems Ltd. Cyan Park - Unit 3, Jimmy Hill Way, Coventry, CV2 4QP, UNITED KINGDOM

Registered in England and Wales 1898734

Instrument Service Report

<u>Unit Type:</u> GA5000	<u>Part Number:</u> GA5KB0B0-101	<u>Date:</u> 22-Mar-2023	<u>Next Service Due:</u> 21-Sep-2023	<u>Customer Name:</u> Structural Soils Limited
<u>Serial Number:</u> G503221				

Customer Comments

Returned for full service and calibration

General Comments/Feedback

This instrument was tested against known certified gas values and the user calibration was seen to be worse than the factory calibration for the following channels: CO2 . Common reasons for this are an out of date or poor user calibration. Regular user calibrations carried out in accordance with our operating manual will help to optimise performance. For further information on user calibration please visit the FAQ section of our website.

Thank you for returning your gas analyser to the QED Service Centre for full service and calibration. We are pleased to inform you that the analyser was received and fully assessed by one of our experienced Service Engineers and no significant faults or issues were observed during the assessment. Our extensive service was carried out, and any necessary components replaced. The analyser has successfully passed all of our rigorous testing and quality checks and has been calibrated using our bespoke, state of the art calibration facility.

For further information about how to get the best use from your instrument please visit our YouTube channel <http://www.youtube.com/GeotechTV> and on our Website <https://qedenv.com>

We have replaced the battery because it is over 2 years old. This is in accordance to the battery cell manufacturer's recommendation.

The CO electrochemical sensor has been replaced due to it being over 2 years old in accordance with the manufacturer's recommendations, and also as a proactive measure based on our experience of the typical lifetime of this type of sensor.

If you require any further assistance with your instrument please email our Technical Support Team at technical@qedenv.co.uk or call us on +44 (0) 333 800 0088 (Monday to Thursday 08.30 - 17.00 & Friday 08.30 - 15.30) UK time zone.

<u>Service Details:</u> Service Scheme	☒	<u>Service Engineer:</u>	<u>Calibration Engineer:</u>	<u>Approved By:</u>	<u>Signature:</u>
Standard Service	☐	Ricky Cottrill	Suk Balrey	Anthony Ashbery	



Instrument Service Report

<u>Unit Type:</u> GA5000	<u>Part Number:</u>	<u>Date:</u>	<u>Next Service Due:</u>	<u>Customer Name:</u>
<u>Serial Number:</u> G503221	GA5KB0B0-101	22-Mar-2023	21-Sep-2023	Structural Soils Limited
Actions/Investigation Description	Result	Comments		
Case assembly closed and screws tightened to correct torque	Yes			
PTFE filters replaced	Yes			
Pump flow greater than 550 ml/min	Pass			
Automated instrument pressure system test (leak test)	Pass			
Pump vacuum greater than -400 mb and flow fails	Pass			
GPS function test	NA			
Temperature probe tested	Pass			
Anemometer tested	Pass			
Chemical gas sensors calibrated – refer to Calibration Certificate	Retest Passed			
Check main PCB and sensor PCB have the latest software	Yes			
Transducers calibrated	Pass			
As Received Chemical Cell Gas Assessment Performed (CAL16)	Yes			
As Received Gas Assessment Performed (CAL01 or CAL02)	Yes			
Chemical sensor(s) replacement over 2yrs UK and 21mths overseas.	Yes	CO Cell replaced		
O2 sensor replacement over 3yrs UK, 33mths overseas	Pass			
Verification of Instrument				

Instrument Service Report

<u>Unit Type:</u> GA5000	<u>Part Number:</u>	<u>Date:</u>	<u>Next Service Due:</u>	<u>Customer Name:</u>
<u>Serial Number:</u> G503221	GA5KB0B0-101	22-Mar-2023	21-Sep-2023	Structural Soils Limited
Actions/Investigation Description	Result	Comments		
Serial Number Check	Yes			
Battery Requires Replacing	Yes	Battery replaced		
Internal Flow Calibrated	Yes			
Full Automatic Calibration	Pass			
Serial Comms Test (USB)	Pass			
Service history of instrument reviewed	Yes			
Inwards gas check data reviewed	Yes			
Instrument turns on	Pass			
Backlight operates correctly	Yes			
External visual inspection performed	Pass			
Internal visual inspection performed	Pass			
All screws tightened to correct torque	Yes			
All connectors are secure	Pass			
Check diagnostic channels	Pass			
Case compression test	Pass			
Impact and stability test	Pass			
Final visual inspection on instrument	Pass			

TEST DATE AND CONDITIONS			
Date		08/07/2022	
Atmospheric Pressure		1015	mB
Ambient Temperature		21.4	°C
Envionics Serial No.		5089	

***GFM436 Final Inspection & Calibration
Check Certificate***

GAS DATA LTD

Unit 4, Fairfield Court

Seven Stars Estate

Wheler Rd

Coventry

CV3 4LJ

Tel 02476303311



GAS DATA
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Fax 02476307711

Customer	ROC Consulting
Certificate Number	123330
Order Number	331480

Serial Number	12229
Software Version	G436-00.0027/0009

Recalibration DUE Date
08/07/23

Instrument Checks					
Keyboard	✓		Display Contrast	✓	
Pump Flow In	500	Accept > 200 cc/min	Pump Flow @ -200mB	250	Accept > 200 cc/min
Clock Set / Running	✓		Labels Fitted	✓	

Gas Checks						
Sensor	CH ₄		CO ₂		O ₂	
	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %	Instrument Gas	True Gas Value %
	Readings %		Readings %		Readings %	
	59.7	60	40.0	40	20.9	20.9
	Accept ±3.0		Accept ±3.0		Accept ±0.5	
	4.9	5	4.9	5	6.0	6
	Accept ±0.3		Accept ±0.3		Accept ±0.3	
Zero Reading 100% N2	0.0	0	0.0	0	0.0	0
	Accept ±0.0		Accept ±0.0		Accept ±0.1	

Optional Gas Checks						
Applied Gas & Range		Concentration Tested @ (ppm)	Instrument Readings (ppm)			
Gas Type	Range (ppm)		Zero Reading		Instrument Gas Reading	
H2S	5000	1500	0	Accept ±0.0	1500	Accept ±5.0
CO	2000	1000	0	Accept ±0.0	995	Accept ±5.0
Hexane	2.0%	2.0%	0	Accept ±0.0	1.99	Accept ±10.0

Cross Gas Effects									
Applied Gas (ppm)					Instrument Readings (ppm)				
Gas Type	Concentration	Toxic 1:	H2S	Toxic 2:	CO	Toxic 3:	HEX		
H2S	1500	1500		0		0			
CO	1000	50		995		0			
Hexane	2.0%	0		0		1.99			

Pressure Checks				
Atmospheric Pressure [AP] (mB)				
Current Atmospheric Pressure (mB)		Instrument Atmospheric Pressure Reading (mB)		
AP Open Ports		1015		
AP Port (Internal)		+800 mB		Accept ±5.0
		+1200mB		Accept ±5.0

Borehole Flow		Differential Pressure	
Applied Reading (l/h)	Instrument Reading (l/h)	Applied Pressure (Pa)	Instrument Reading (Pa)
-30	-30.4	Accept ±3.0	-377
-3	-3.0	Accept ±1.0	-17
0	0.0	Accept ±0.0	0
3	3.0	Accept ±0.5	15
30	30.0	Accept ±3.0	295
60	60.0	Accept ±6.0	880
90	89.8	Accept ±9.0	1690

Temperature Checks			
Calibration Temperature		Instrument Temperature Reading °C	
-10	-10.0	Accept ±2.0	
0	0.0	Accept ±1.0	
30	30.0	Accept ±1.0	
60	60	Accept ±1.0	
100	100.0	Accept ±1.0	

Technician:

Jack Ryland

Date Tested:

08/07/2022

The instrument identified by the serial number stated above has been tested by Gas Data personnel for calibration accuracy on the date and under the ambient conditions stated. Gas Data Ltd internal BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018 compliant workshop procedures were followed to apply known calibration test gases, gas flow rates, pressures and temperatures of the values stated. The results displayed on the instrument at each stage are recorded above.

Gas Data Ltd is certified to BS EN ISO9001:2015, BS EN ISO14001:2015, BS EN ISO45001:2018.



COMPLEX CHALLENGES ...
MADE SIMPLE

APPENDIX G – WASTE ASSESSMENT

Final Test Report

Envirolab Job Number: 22/07379
Issue Number: 1

Date: 8-Aug-22

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Reece McGuinness
Project Name: Plots NT02-NT04
Project Ref: 4328
Order No: 1781

Date Samples Received: 26-Jul-22
Date Instructions Received: 28-Jul-22
Date Analysis Completed: 8-Aug-22

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

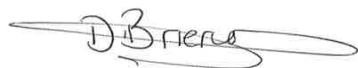
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Sample Details								
Lab Sample ID	Method	ISO17025	MCERTS	22/07379/2	Landfill Waste Acceptance Criteria Limits			
Client Sample Number					Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				WS203				
Depth to Top				0.5				
Depth to Bottom								
Date Sampled				21/07/2022				
Sample Type				Soil - ES				
Sample Matrix Code				4AB				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	9.56	-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.35	-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.19	-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	NDP	-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	12.6	3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	3.94	100	-	-	
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	44	500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007	1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01	6	-	-	
Eluate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.014	0.140	0.5	2	25
Barium	A-T-025	N	N	0.007	0.070	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.015	0.150	0.5	10	70
Copper	A-T-025	N	N	0.029	0.290	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.036	0.360	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.002	0.020	0.5	10	50
Antimony	A-T-025	N	N	0.004	0.040	0.06	0.7	5
Selenium	A-T-025	N	N	0.006	0.060	0.1	0.5	7
Zinc	A-T-025	N	N	0.002	0.020	4	50	200
Chloride	A-T-026	N	N	20	204	800	15000	25000
Fluoride	A-T-026	N	N	<0.10	<1	10	150	500
Sulphate as SO ₄	A-T-026	N	N	230	2298	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	306	3060	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<2.0	<200	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	10.6				
Conductivity (µS/cm)	A-T-037	N	N	613				
Mass Sample (kg)				0.185				
Dry Matter (%)	A-T-044	N	N	94.7				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Sample Details						Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	22/07379/5				
Client Sample Number						Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				WS211				
Depth to Top				0.3				
Depth to Bottom								
Date Sampled				22/07/2022				
Sample Type				Soil - ES				
Sample Matrix Code				5ABE				
Solid Waste Analysis								
pH (pH Units) _D	A-T-031	N	N	8.08		-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.25		-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.07		-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	8.4		-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	5.56		3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	3.44		100	-	-
Mineral Oil (mg/kg) _{A EH, CU, ID, AL}	A-T-007	N	N	56		500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007		1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01		6	-	-
Elate Analysis				10:1 mg/l	10:1 mg/kg	Limit values for compliance leaching test using BS EN 12457-2 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.002	0.020	0.5	2	25
Barium	A-T-025	N	N	0.083	0.830	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.032	0.320	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.004	0.040	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.023	0.230	0.5	10	50
Antimony	A-T-025	N	N	0.007	0.070	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.057	0.570	4	50	200
Chloride	A-T-026	N	N	9	89	800	15000	25000
Fluoride	A-T-026	N	N	0.3	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	16	157	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	120	1200	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	34.10	341	500	800	1000
Leach Test Information								
pH (pH Units)	A-T-031	N	N	8.5				
Conductivity (µS/cm)	A-T-037	N	N	240				
Mass Sample (kg)				0.223				
Dry Matter (%)	A-T-044	N	N	78.5				
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation								

Final Test Report

Envirolab Job Number: 23/03602
Issue Number: 1

Date: 4-May-23

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Linden Richardson/Reece McGuinness
Project Name: Plots NT02-04
Project Ref: 4328
Order No: 4328

Date Samples Received: 6-Apr-23
Date Instructions Received: 17-Apr-23
Date Analysis Completed: 4-May-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

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Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s). Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Danielle Brierley
Deputy Client Services Supervisor

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/03602/6						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				WS305						
Depth to Top				1						
Depth to Bottom										
Date Sampled				03/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				1A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	10.39				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.35				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.17				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	NDP				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	2.03				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	17.2				100	-	-
Mineral Oil (mg/kg) _A EH, CU, 1D, AL	A-T-007	N	N	79				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.018	0.009	0.040	0.100	0.5	2	25
Barium	A-T-025	N	N	0.030	0.019	0.067	0.210	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.003	<0.001	0.007	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.063	0.013	0.140	0.190	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.043	0.006	0.096	0.100	0.5	10	30
Nickel	A-T-025	N	N	0.002	<0.002	0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.002	0.001	0.004	0.010	0.06	0.7	5
Selenium	A-T-025	N	N	0.002	<0.001	0.004	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	4	50	200
Chloride	A-T-026	N	N	38	2	84	64	800	15000	25000
Fluoride	A-T-026	N	N	0.3	0.4	0.7	4.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	952	155	2119	2499	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	882	221	1964	3016	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	22.3	<20.0	50	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	9.8	10.2					
Conductivity (µS/cm)	A-T-037	N	N	1764	442					
Mass Sample (kg)				0.215						
Dry Matter (%)	A-T-044	N	N	81.5						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/03602/29						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				WS304						
Depth to Top				1						
Depth to Bottom										
Date Sampled				04/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				5A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.73				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.21				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.19				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	6.4				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	3				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	0.92				100	-	-
Mineral Oil (mg/kg) _A EH_CU_ID_AL	A-T-007	N	N	<10				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.009	0.008	0.020	0.080	0.5	2	25
Barium	A-T-025	N	N	0.031	0.008	0.068	0.110	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.003	<0.001	0.007	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.009	0.021	0.020	0.200	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.026	0.005	0.057	0.070	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	<0.001	0.001	<0.002	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.003	0.002	0.007	0.020	0.06	0.7	5
Selenium	A-T-025	N	N	0.003	0.001	0.007	0.010	0.1	0.5	7
Zinc	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	4	50	200
Chloride	A-T-026	N	N	21	<1.00	46	24	800	15000	25000
Fluoride	A-T-026	N	N	0.3	0.2	0.6	2.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	722	227	1583	2882	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	762	250	1672	3134	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	9.3	9.3					
Conductivity (µS/cm)	A-T-037	N	N	1524	500					
Mass Sample (kg)				0.209						
Dry Matter (%)	A-T-044	N	N	83.8						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03602/41						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				MP301						
Depth to Top				1						
Depth to Bottom										
Date Sampled				05/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4AE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.01				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.38				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.05				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	8.2				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	3.2				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	5.83				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_ID_AL}	A-T-007	N	N	418				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.112				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.079	0.044	0.179	0.490	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.036	0.558	0.082	5.130	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.037	0.009	0.084	0.120	0.5	10	30
Nickel	A-T-025	N	N	0.018	<0.002	0.041	0.020	0.4	10	40
Lead	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.011	0.005	0.025	0.060	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.066	0.011	0.150	0.180	4	50	200
Chloride	A-T-026	N	N	6	<1.00	13	<10	800	15000	25000
Fluoride	A-T-026	N	N	1.0	0.8	2.2	9.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	1380	216	3129	3548	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	1190	252	2698	3659	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.8	7.9					
Conductivity (µS/cm)	A-T-037	N	N	2379	503					
Mass Sample (kg)				0.222						
Dry Matter (%)	A-T-044	N	N	78.9						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03602/42						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				MP302						
Depth to Top				1						
Depth to Bottom										
Date Sampled				05/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4ABDE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.58				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.36				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.05				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	8.3				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	3.43				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	2.8				100	-	-
Mineral Oil (mg/kg) _A EH_CU_ID_AL	A-T-007	N	N	655				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.535				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.034	0.044	0.075	0.440	20	100	300
Cadmium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.102	0.032	0.225	0.410	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.049	0.017	0.108	0.210	0.5	10	30
Nickel	A-T-025	N	N	0.098	0.013	0.216	0.230	0.4	10	40
Lead	A-T-025	N	N	0.002	<0.001	0.004	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.010	0.005	0.022	0.060	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.844	0.088	1.864	1.760	4	50	200
Chloride	A-T-026	N	N	5	<1.00	10	<10	800	15000	25000
Fluoride	A-T-026	N	N	1.0	0.9	2.1	10.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	1590	395	3512	5402	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	1376	437	3039	5534	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.8	7.9					
Conductivity (µS/cm)	A-T-037	N	N	2751	875					
Mass Sample (kg)				0.211						
Dry Matter (%)	A-T-044	N	N	82.7						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03602/43						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				MP304						
Depth to Top				1						
Depth to Bottom										
Date Sampled				05/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4ADE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	7.98				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.37				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.08				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	11.9				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	7.48				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	4.75				100	-	-
Mineral Oil (mg/kg) _A EH_CU_ID_AL	A-T-007	N	N	963				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.346				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	<0.005	<0.001	<0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.037	0.041	0.081	0.410	20	100	300
Cadmium	A-T-025	N	N	0.006	0.001	0.013	0.020	0.04	1	5
Chromium	A-T-025	N	N	<0.005	<0.001	<0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.205	0.062	0.449	0.800	2	50	100
Mercury	A-T-025	N	N	<0.0025	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.044	0.025	0.096	0.280	0.5	10	30
Nickel	A-T-025	N	N	0.283	0.039	0.620	0.680	0.4	10	40
Lead	A-T-025	N	N	<0.005	0.002	<0.002	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.017	0.009	0.037	0.100	0.06	0.7	5
Selenium	A-T-025	N	N	<0.005	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	2.899	0.300	6.348	6.030	4	50	200
Chloride	A-T-026	N	N	35	3	76	64	800	15000	25000
Fluoride	A-T-026	N	N	1.9	1.4	4.2	15.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	1920	460	4204	6358	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	1813	525	3970	6822	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.05	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.6	7.9					
Conductivity (µS/cm)	A-T-037	N	N	3625	1049					
Mass Sample (kg)				0.208						
Dry Matter (%)	A-T-044	N	N	84.1						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Final Test Report

Envirolab Job Number: 23/03693
Issue Number: 1
Date: 5-May-23

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ
West Sussex,, RH15 9LR

Project Manager: Reece McGuinness
Project Name: Plots NT02-04
Project Ref: 4328
Order No: 4328

Date Samples Received: 14-Apr-23
Date Instructions Received: 19-Apr-23
Date Analysis Completed: 5-May-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:

Richard Wong
Client Manager

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/03693/1						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP310						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				12/04/2023						
Sample Type				Solid						
Sample Matrix Code				7						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	7.64				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.05				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.02				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	52.5				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	31.2				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	7.05				100	-	-
Mineral Oil (mg/kg) _A EH, CU, 1D, AL	A-T-007	N	N	833				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.741				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	IS	IS	IS	IS	0.5	2	25
Barium	A-T-025	N	N	IS	IS	IS	IS	20	100	300
Cadmium	A-T-025	N	N	IS	IS	IS	IS	0.04	1	5
Chromium	A-T-025	N	N	IS	IS	IS	IS	0.5	10	70
Copper	A-T-025	N	N	IS	IS	IS	IS	2	50	100
Mercury	A-T-025	N	N	IS	IS	IS	IS	0.01	0.2	2
Molybdenum	A-T-025	N	N	IS	IS	IS	IS	0.5	10	30
Nickel	A-T-025	N	N	IS	IS	IS	IS	0.4	10	40
Lead	A-T-025	N	N	IS	IS	IS	IS	0.5	10	50
Antimony	A-T-025	N	N	IS	IS	IS	IS	0.06	0.7	5
Selenium	A-T-025	N	N	IS	IS	IS	IS	0.1	0.5	7
Zinc	A-T-025	N	N	IS	IS	IS	IS	4	50	200
Chloride	A-T-026	N	N	IS	IS	IS	IS	800	15000	25000
Fluoride	A-T-026	N	N	IS	IS	IS	IS	10	150	500
Sulphate as SO ₄	A-T-026	N	N	IS	IS	IS	IS	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	IS	IS	IS	IS	4000	60000	100000
Phenol Index	A-T-050	N	N	IS	IS	IS	IS	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	IS	IS	IS	IS	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	IS	IS	Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation				
Conductivity (µS/cm)	A-T-037	N	N	IS	IS					
Mass Sample (kg)				0.286						
Dry Matter (%)	A-T-044	N	N	61.1						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03693/9						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				TP309						
Depth to Top				1						
Depth to Bottom										
Date Sampled				11/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4ABE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.54			-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.27			-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.09			-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	NDP			-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	5.7			3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	39.4			100	-	-	
Mineral Oil (mg/kg) _A EH_CU_1D_AL	A-T-007	N	N	1180			500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007			1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01			6	-	-	
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.008	0.004	0.018	0.050	0.5	2	25
Barium	A-T-025	N	N	0.074	0.039	0.164	0.440	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.005	0.002	0.011	0.020	0.5	10	70
Copper	A-T-025	N	N	0.073	0.045	0.162	0.490	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.138	0.024	0.306	0.380	0.5	10	30
Nickel	A-T-025	N	N	0.035	0.007	0.078	0.100	0.4	10	40
Lead	A-T-025	N	N	0.098	0.089	0.218	0.920	0.5	10	50
Antimony	A-T-025	N	N	0.040	0.018	0.089	0.210	0.06	0.7	5
Selenium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.063	0.045	0.140	0.480	4	50	200
Chloride	A-T-026	N	N	101	13	224	231	800	15000	25000
Fluoride	A-T-026	N	N	1.4	0.8	3.0	9.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	695	116	1542	1843	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	1272	263	2823	3841	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	60.2	<20.0	134	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	8.0	7.7					
Conductivity (µS/cm)	A-T-037	N	N	2544	525					
Mass Sample (kg)				0.213						
Dry Matter (%)	A-T-044	N	N	82						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/03693/11						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				TP306						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				13/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4A						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.21				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.37				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.1				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	9.1				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	8.84				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	16.8				100	-	-
Mineral Oil (mg/kg) _A EH_CU_1D_AL	A-T-007	N	N	231				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.001	0.002	0.002	0.020	0.5	2	25
Barium	A-T-025	N	N	0.067	0.069	0.151	0.700	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.002	0.001	0.004	0.010	0.5	10	70
Copper	A-T-025	N	N	0.008	0.008	0.018	0.080	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.021	0.010	0.047	0.120	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.004	0.014	0.009	0.130	0.5	10	50
Antimony	A-T-025	N	N	0.020	0.016	0.045	0.170	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.005	0.004	0.011	0.040	4	50	200
Chloride	A-T-026	N	N	<1.00	<1.00	<2	<10	800	15000	25000
Fluoride	A-T-026	N	N	1.2	1.0	2.7	10.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	75	52	169	562	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	216	76	485	939	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	8.0	7.5					
Conductivity (µS/cm)	A-T-037	N	N	431	151					
Mass Sample (kg)				0.218						
Dry Matter (%)	A-T-044	N	N	80.2						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03693/13						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				TP304						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				13/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4AE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	7.81				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.82				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.09				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	7.6				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	6.63				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	10.9				100	-	-
Mineral Oil (mg/kg) _A EH_CU_1D_AL	A-T-007	N	N	106				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.004	0.004	0.009	0.040	0.5	2	25
Barium	A-T-025	N	N	0.134	0.043	0.304	0.550	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	0.023	0.013	0.052	0.140	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.010	0.004	0.023	0.050	0.5	10	30
Nickel	A-T-025	N	N	0.003	<0.002	0.007	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.008	0.007	0.018	0.070	0.5	10	50
Antimony	A-T-025	N	N	0.382	0.205	0.866	2.310	0.06	0.7	5
Selenium	A-T-025	N	N	0.003	<0.001	0.007	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.128	0.012	0.290	0.260	4	50	200
Chloride	A-T-026	N	N	<1.00	<1.00	<2	<10	800	15000	25000
Fluoride	A-T-026	N	N	0.8	0.7	1.7	8.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	1010	191	2291	2893	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	899	233	2039	3154	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.7	7.5					
Conductivity (µS/cm)	A-T-037	N	N	1797	467					
Mass Sample (kg)				0.222						
Dry Matter (%)	A-T-044	N	N	78.9						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03693/15						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				TP301						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				13/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4AB						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.02			-	>6	-	
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.05			-	to be evaluated	to be evaluated	
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.02			-	to be evaluated	to be evaluated	
Loss on Ignition (%) _D	A-T-030	N	N	6			-	-	10	
Total Organic Carbon (%) _D	A-T-032	N	N	4.45			3	5	6	
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	1.41			100	-	-	
Mineral Oil (mg/kg) _A EH_CU_1D_AL	A-T-007	N	N	17			500	-	-	
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007			1	-	-	
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01			6	-	-	
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.008	0.012	0.018	0.120	0.5	2	25
Barium	A-T-025	N	N	0.033	0.090	0.074	0.860	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.002	0.003	0.004	0.030	0.5	10	70
Copper	A-T-025	N	N	0.009	0.029	0.020	0.270	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.035	0.008	0.078	0.110	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.030	0.278	0.067	2.560	0.5	10	50
Antimony	A-T-025	N	N	0.008	0.004	0.018	0.050	0.06	0.7	5
Selenium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.013	0.061	0.029	0.570	4	50	200
Chloride	A-T-026	N	N	3	5	7	48	800	15000	25000
Fluoride	A-T-026	N	N	0.5	0.7	1.2	7.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	50	18	111	222	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	151	52	337	645	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.4	7.2					
Conductivity (µS/cm)	A-T-037	N	N	302	103					
Mass Sample (kg)				0.215						
Dry Matter (%)	A-T-044	N	N	81.4						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Final Test Report

Envirolab Job Number: 23/03958
Issue Number: 1 Date: 10-May-23

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ
HP3 9RT

Project Manager: Linden Richardson/Reece McGuinness
Project Name: Plots NT02 - NT04
Project Ref: 4328
Order No: 1858

Date Samples Received: 21-Apr-23
Date Instructions Received: 26-Apr-23
Date Analysis Completed: 10-May-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Richard Wong
Client Manager

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03958/2						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				RBH305						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				24/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4ABD						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.30				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.64				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.11				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	5				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	2.94				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	107				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	132				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
				mg/l		mg/kg				
Arsenic	A-T-025	N	N	0.001	0.002	0.002	0.020	0.5	2	25
Barium	A-T-025	N	N	0.040	0.030	0.087	0.320	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.001	<0.001	0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	<0.004	0.006	<0.008	<0.04	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.009	0.005	0.020	0.060	0.5	10	30
Nickel	A-T-025	N	N	<0.002	<0.002	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.003	0.008	0.007	0.080	0.5	10	50
Antimony	A-T-025	N	N	0.006	0.004	0.013	0.040	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.009	0.010	0.020	0.100	4	50	200
Chloride	A-T-026	N	N	<1.00	<1.00	<2	<10	800	15000	25000
Fluoride	A-T-026	N	N	0.8	0.2	1.6	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	9	<1.00	19	10	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	81	42	176	472	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.3	7.4					
Conductivity (µS/cm)	A-T-037	N	N	162	85					
Mass Sample (kg)				0.204						
Dry Matter (%)	A-T-044	N	N	85.7						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Landfill WAC analysis must not be used for hazardous waste classification purposes.
This analysis is only applicable for landfill acceptance and does not give any indication
as to whether a waste may be hazardous or non-hazardous.

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/03958/4						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				HP301						
Depth to Top				0.5						
Depth to Bottom										
Date Sampled				20/04/2023						
Sample Type				Soil - ES						
Sample Matrix Code				4AE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	7.99				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.23				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.1				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	16				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	10.1				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	25.1				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	162				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.044				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	<0.001	0.001	<0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.059	0.033	0.130	0.370	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	0.004	0.004	0.009	0.040	0.5	10	70
Copper	A-T-025	N	N	0.012	0.012	0.026	0.120	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.036	0.017	0.079	0.200	0.5	10	30
Nickel	A-T-025	N	N	0.003	<0.002	0.007	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.003	0.002	0.007	0.020	0.5	10	50
Antimony	A-T-025	N	N	0.010	0.006	0.022	0.070	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.023	0.011	0.051	0.130	4	50	200
Chloride	A-T-026	N	N	<1.00	<1.00	<2	<10	800	15000	25000
Fluoride	A-T-026	N	N	0.8	0.6	1.7	7.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	194	45	427	630	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	280	107	616	1289	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.4	7.3					
Conductivity (µS/cm)	A-T-037	N	N	560	214					
Mass Sample (kg)				0.210						
Dry Matter (%)	A-T-044	N	N	83.3						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Final Test Report

Envirolab Job Number: 23/09229
Issue Number: 1

Date: 26-Sep-23

Client: ROCP LIMITED
Commercial Wharf 6 Commercial Street
Castlefield
Manchester
M15 4PZ

Project Manager: Linden Richardson
Project Name: Plots NT02-04
Project Ref: 4328
Order No: TBC

Date Samples Received: 18-Sep-23
Date Instructions Received: 18-Sep-23
Date Analysis Completed: 26-Sep-23

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

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Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

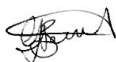
IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s). Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Sample Details							Landfill Waste Acceptance Criteria Limits			
Lab Sample ID	Method	ISO17025	MCERTS	23/09229/2						
Client Sample Number							Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill	
Client Sample ID				RBH403						
Depth to Top				3.5						
Depth to Bottom										
Date Sampled				13/09/2023						
Sample Type				Soil - ES						
Sample Matrix Code				6AE						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.02				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.34				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.1				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	12.1				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	6.51				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	11.8				100	-	-
Mineral Oil (mg/kg) _A EH_CU_1D_AL	A-T-007	N	N	2050				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	0.355				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	0.08				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	0.002	<0.001	0.005	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.119	0.101	0.301	1.080	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	<0.004	<0.004	<0.008	<0.04	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.121	0.068	0.306	0.780	0.5	10	30
Nickel	A-T-025	N	N	0.048	0.019	0.121	0.230	0.4	10	40
Lead	A-T-025	N	N	0.001	<0.001	0.003	<0.01	0.5	10	50
Antimony	A-T-025	N	N	0.009	0.008	0.023	0.090	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	0.022	0.012	0.056	0.140	4	50	200
Chloride	A-T-026	N	N	3	2	6	24	800	15000	25000
Fluoride	A-T-026	N	N	0.2	0.3	0.5	3.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	258	274	653	2863	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	79	44	200	503	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.05	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	24.9	<20.0	63	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.3	7.5					
Conductivity (µS/cm)	A-T-037	N	N	158	87					
Mass Sample (kg)				0.267						
Dry Matter (%)	A-T-044	N	N	65.4						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, VE ₁ (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										

Final Test Report

Envirolab Job Number:	23/09491	
Issue Number:	1	Date: 10-Oct-23
Client:	ROCP LIMITED Commercial Wharf 6 Commercial Street Castlefield Manchester M15 4PZ TN22 5QZ	
Project Manager:	Reece McGuinness	
Project Name:	Plots NT02 - NT04	
Project Ref:	4328	
Order No:	1910	
Date Samples Received:	21-Sep-23	
Date Instructions Received:	25-Sep-23	
Date Analysis Completed:	10-Oct-23	

Notes - Soil analysis

All results are reported as dry weight (<40°C).

For samples with Matrix Codes 1 - 6 natural stones >10mm are removed or excluded from the sample prior to analysis and reported results corrected to a whole sample basis.

For samples with Matrix Code 7 the whole sample is dried and crushed prior to analysis.

Notes - General

This report shall not be reproduced, except in full, without written approval from Envirolab.

Subscript "A" indicates analysis performed on the sample as received. "D" indicates analysis performed on the dried sample, crushed to pass a 2mm sieve, unless asbestos is found to be present in which case all analysis is performed on the sample as received.

All analysis is performed on the dried and crushed sample for samples with Matrix Code 7 and this supercedes any "A" subscripts.

All analysis is performed on the sample as received for soil samples from outside the European Union and this supercedes any "D" subscripts

For complex, multi-compound analysis, quality control results do not always fall within chart limits for every compound and we have criteria for reporting in these situations.

If results are in italic font they are associated with such quality control failures and may be unreliable.

A deviating samples report is appended and will indicate if samples or tests have been found to be deviating. Any test results affected may not be an accurate record of the concentration at the time of sampling and, as a result, may be invalid

Predominant Matrix Codes: 1 = SAND, 2 = LOAM, 3 = CLAY, 4 = LOAM/SAND, 5 = SAND/CLAY, 6 = CLAY/LOAM, 7 = OTHER, 8 = Asbestos bulk ID sample

Secondary Matrix Codes: A = contains stones, B = contains construction rubble, C = contains visible hydrocarbons, D = contains glass/metal, E = contains roots/twigs.

IS indicates Insufficient sample for analysis, NDP indicates No Determination Possible and NAD indicates No Asbestos Detected.

Analytical results reflect the quality of the sample at the time of analysis only. Opinions and interpretations expressed are outside the scope of our accreditation.

Please contact us if you need any further information.

HWOL TPH Code: EH_CU_1D_AL: Extractable hydrocarbons - i.e. everything extracted by the solvent(s), Clean-up - e.g. by florisil, silica gel, GC - Single coil gas chromatography, Aliphatics only

Approved by:



Gemma Berrisford
Deputy Client Services Supervisor

Sample Details								Landfill Waste Acceptance Criteria Limits		
Lab Sample ID	Method	ISO17025	MCERTS	23/09491/4						
Client Sample Number								Inert Waste Landfill	Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill	Hazardous Waste Landfill
Client Sample ID				RBH402						
Depth to Top				5.3						
Depth to Bottom										
Date Sampled				19/09/2023						
Sample Type				Soil - ES						
Sample Matrix Code				6AB						
Solid Waste Analysis										
pH (pH Units) _D	A-T-031	N	N	8.22				-	>6	-
ANC to pH 4 (mol/kg) _D	A-T-ANC	N	N	0.09				-	to be evaluated	to be evaluated
ANC to pH 6 (mol/kg) _D	A-T-ANC	N	N	0.02				-	to be evaluated	to be evaluated
Loss on Ignition (%) _D	A-T-030	N	N	4.5				-	-	10
Total Organic Carbon (%) _D	A-T-032	N	N	2.11				3	5	6
PAH Sum of 17 (mg/kg) _A	A-T-019	N	N	<0.08				100	-	-
Mineral Oil (mg/kg) _{A EH_CU_1D_AL}	A-T-007	N	N	<10				500	-	-
Sum of 7 PCBs (mg/kg) _A	A-T-004	N	N	<0.007				1	-	-
Sum of BTEX (mg/kg) _A	A-T-022	N	N	<0.01				6	-	-
Eluate Analysis				2:1	8:1	2:1	Cumulative 10:1	Limit values for compliance leaching test using		
				mg/l		mg/kg		BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	A-T-025	N	N	<0.001	0.001	<0.002	<0.01	0.5	2	25
Barium	A-T-025	N	N	0.027	0.037	0.060	0.370	20	100	300
Cadmium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.04	1	5
Chromium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.5	10	70
Copper	A-T-025	N	N	<0.004	0.005	<0.008	<0.04	2	50	100
Mercury	A-T-025	N	N	<0.0005	<0.0005	<0.001	<0.005	0.01	0.2	2
Molybdenum	A-T-025	N	N	0.016	0.007	0.036	0.080	0.5	10	30
Nickel	A-T-025	N	N	<0.002	0.004	<0.004	<0.02	0.4	10	40
Lead	A-T-025	N	N	0.003	0.054	0.007	0.490	0.5	10	50
Antimony	A-T-025	N	N	0.040	0.032	0.089	0.340	0.06	0.7	5
Selenium	A-T-025	N	N	<0.001	<0.001	<0.002	<0.01	0.1	0.5	7
Zinc	A-T-025	N	N	<0.002	0.003	<0.004	<0.02	4	50	200
Chloride	A-T-026	N	N	8	2	17	28	800	15000	25000
Fluoride	A-T-026	N	N	1.0	0.5	2.3	5.0	10	150	500
Sulphate as SO ₄	A-T-026	N	N	203	31	454	517	1000	20000	50000
Total Dissolved Solids	A-T-035	N	N	315	77	705	1060	4000	60000	100000
Phenol Index	A-T-050	N	N	<0.01	<0.01	<0.02	<0.1	1	-	-
Dissolved Organic Carbon	A-T-032	N	N	<20.0	<20.0	<40	<200	500	800	1000
Leach Test Information										
pH (pH Units)	A-T-031	N	N	7.4	7.2					
Conductivity (µS/cm)	A-T-037	N	N	629	154					
Mass Sample (kg)				0.216						
Dry Matter (%)	A-T-044	N	N	80.9						
Stage 1										
Volume Leachant, L ₂ (l)	A-T-046			0.350						
Filtered Eluate Volume, V _{E1} (l)	A-T-046			0.200						
Stage 2										
Volume Leachant, L ₈ (l)	A-T-046			1.400						
Stated acceptance limits are for guidance only and Envirolab cannot be held responsible for any discrepancies with current legislation										



Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

% Moisture

pH (soil)

pH (leachate)

Arsenic
Cadmium
Copper
CrVI or Chromium
Lead
Mercury
Nickel
Selenium
Zinc

Barium
Beryllium
Vanadium

Cobalt
Manganese
Molybdenum

Antimony

Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

%

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg
mg/kg

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

8.32	8.69	7.91	8.29	10.04	8.74
44	13	18	40	26	8
3.3	2.0	5.2	3.6	2.4	2.1
144	84	148	162	206	1,140
32	25	39	37	21	27
284	391	847	386	7,660	261
0.41	0.97	1.65	0.63	2.89	1.90
37	21	37	45	32	26
1	1	1	2	1	1
836	356	557	440	419	334
169.00	271.00	376.00	213.00	179.00	282.00
2.0	0.7	0.9	1.6	1.2	0.7
42	29	39	42	29	32
5.00	2.00	5.00	10.00	4.00	2.00
9	11	76	7	25	6

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Titanium
Tungsten
Ammoniacal N ws Boron

1.7	1.0	2.8	1.0	1.3	1.0

PAH (Input Total PAH **OR** individual PAH results)

Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(ghi)perylene
Benzo(k)fluoranthene
Chrysene
Dibenzo(ah)anthracene
Fluoranthene
Fluorene
Indeno(123cd)pyrene
Naphthalene
Phenanthrene
Pyrene
Coronene
Total PAHs (16 or 17)

27.30	43.10	30.00	131.00	929.00	53.30

TPH
Petrol

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

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If any calculation cells below state "0.00000", testing has NOT been undertaken that cc

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Diesel	mg/kg
Lube Oil	mg/kg
Crude Oil	mg/kg
White Spirit / Kerosene	mg/kg
Creosote	mg/kg
Unknown TPH with ID	mg/kg
Unknown TPHCWG	mg/kg
Total Sulphide	mg/kg
Complex Cyanide	mg/kg
Free (or Total) Cyanide	mg/kg
Thiocyanate	mg/kg
Elemental/Free Sulphur	mg/kg

501.0	1,200.0	3,660.0		1,340.0	
4	1	3	1	1	1

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol	mg/kg
Cresols	mg/kg
Xylenols	mg/kg
Resourcinol	mg/kg
Phenols Total by HPLC	mg/kg

0.2	0.2	0.2		0.2	0.2
0.2	0.2	0.2		0.2	0.2
0.2	0.2	0.2		0.2	0.2
0.2	0.2	0.2		0.2	0.2

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene	mg/kg
Toluene	mg/kg
Ethylbenzene	mg/kg
Xylenes	mg/kg

0.01	0.01	0.01		0.01	
0.01	0.01	0.01		0.01	
0.01	0.01	0.01		0.01	
0.01	0.01	0.01		0.01	



Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

Total BTEX

PCBs (POPs)
PCBs Total (eg EC7/WHO12)

PBBs (POPs)
Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

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TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

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Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

2,3,7,8-TeCDD
1,2,3,7,8-PeCDD
1,2,3,4,7,8-HxCDD
1,2,3,6,7,8-HxCDD
1,2,3,7,8,9-HxCDD
1,2,3,4,6,7,8-HpCDD
OCDD
2,3,7,8-TeCDF
1,2,3,7,8-PeCDF
2,3,4,7,8-PeCDF
1,2,3,4,7,8-HxCDF
1,2,3,6,7,8-HxCDF
2,3,4,6,7,8-HxCDF
1,2,3,7,8,9-HxCDF
1,2,3,4,6,7,8-HpCDF
1,2,3,4,7,8,9-HpCDF
OCDF
Total Dioxins and Furans

[illegible]

Aldrin

mg/kg

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Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

α Hexachlorocyclohexane (alpha-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
β Hexachlorocyclohexane (beta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
α Cis-Chlordane (alpha) OR Total Chlordane	mg/kg					
δ Hexachlorocyclohexane (delta-HCH) <i>(leave empty if total HCH results used)</i>	mg/kg					
Dieldrin	mg/kg					
Endrin	mg/kg					
χ Hexachlorocyclohexane (gamma-HCH) (lindane) OR Total HCH	mg/kg					
Heptachlor	mg/kg					
Hexachlorobenzene	mg/kg					
o,p'-DDT <i>(leave empty if total DDT results used)</i>	mg/kg					
p,p'-DDT OR Total DDT	mg/kg					
χ Trans-Chlordane (gamma) <i>(leave empty if total Chlordane results used)</i>	mg/kg					
Chlordecone (kepone)	mg/kg					



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Ref. 1
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Date

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TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Pentachlorobenzene
Mirex
Toxaphene (camphechlor)

mg/kg
mg/kg
mg/kg

Tin
Tin <i>(leave empty if Organotin and Tin excl Organotin results used)</i>

mg/kg

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Organotin
Dibutyltin; DiBT
Tributyltin; TriBT
Triphenyltin; TriPT
Tetrabutyltin; TeBT

mg/kg
mg/kg
mg/kg
mg/kg

Tin excluding Organotin
Tin excl Organotin

mg/kg

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Date _____

Thresholds

Y

see "Carc HP7
% Asbestos in
Soil (Fibres)"
below

$\geq 0.1\%$

$\geq 0.1\%$



TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

N	Y	Y	Y	Y	N
---	---	---	---	---	---

	0.00300		0.00700	0.00700	
0.00000	0.00300	0.00000	0.00700	0.00700	0.00000

N	N	Y	N	N	N
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

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TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

If visual identifiable pieces of asbestos are present, you cannot use Asbestos % results and the whole soil sample is Hazardous Was
05. Therefore, if Asbestos in Soil above is "Y", the Asbestos % above is "<0.1%", but the Asbestos Identifiable Pieces visibl

Identifiable Pieces are Cement, Fragments, Board, Rope etc. ie anything ACM that is
All visual asbestos pieces need to be removed leaving only fibres (or micro pieces) with an Asbestos % Composition in Soil re:

Hazardous Property	Thresholds	Cut Off Value	If cells below turn yellow and the text turns red, the samples should be classified a					
Corrosive HP8	≥5%	<1%	0.02891	0.03368	0.04752	0.03368	0.02542	0.03450
Irritant HP4	≥10%	<1%	0.02964	0.01645	0.02612	0.03106	0.03195	0.13565
Irritant HP4	≥20%	<1%	0.02816	0.01869	0.02838	0.04273	0.12381	0.14004
Specifc Target Organ Toxicity HP5	≥1%		0.00075	0.00019	0.00056	0.00019	0.00019	0.00019
Specifc Target Organ Toxicity HP5	≥20%		0.00748	0.00516	0.00694	0.01310	0.09290	0.00570
Specifc Target Organ Toxicity HP5	≥1%		0.00748	0.00516	0.00749	0.00909	0.00700	0.00570
Specifc Target Organ Toxicity HP5	≥10%		0.05010	0.12000	0.36600	0.03860	0.76600	0.02610
Aspiration Toxicity HP5	≥10%		0.05010	0.12000	0.36600	0.00000	0.13400	0.00000
Acute Toxicity HP6	≥0.1%	<0.1%	0.00075	0.00019	0.00056	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.25%	<0.1%	0.00585	0.00181	0.00254	0.00534	0.00372	0.00125
Acute Toxicity HP6	≥5%	<0.1%	0.02416	0.03242	0.04570	0.02942	0.02268	0.03390
Acute Toxicity HP6	≥25%	<1%	0.06378	0.06385	0.12850	0.08777	0.89706	0.17215
Acute Toxicity HP6	≥0.25%	<0.1%	0.00079	0.00029	0.00073	0.00025	0.00048	0.00038
Acute Toxicity HP6	≥2.5%	<0.1%	0.00614	0.00480	0.00749	0.00710	0.00403	0.00518



Please enter available data in the rows associated with the test (grey) cells. Calculation cells
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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Acute Toxicity HP6	≥15%	<0.1%	0.00006	0.00006	0.00006	0.00000	0.00006	0.00006
Acute Toxicity HP6	≥55%	<1%	0.00141	0.00152	0.00964	0.00120	0.00324	0.00093
Acute Toxicity HP6	≥0.1%	<0.1%	0.00075	0.00019	0.00056	0.00019	0.00019	0.00019
Acute Toxicity HP6	≥0.5%	<0.1%	0.00743	0.00542	0.00858	0.00826	0.00511	0.00590
Acute Toxicity HP6	≥3.5%	<0.1%	0.00016	0.00016	0.00016	0.00028	0.00016	0.00016
Acute Toxicity HP6	≥22.5%	<1%	0.07652	0.08510	0.15344	0.09477	0.81881	0.19407
Carcinogenic HP7	≥0.1%		0.05010	0.12000	0.36600	0.03860	0.76600	0.02610
Carcinogenic HP7	≥0.1%		0.000000000	0.000000000	0.000000000	0.000000000	0.000000000	0.000000000
Carcinogenic HP7	≥1%		0.00748	0.00516	0.00912	0.01310	0.09290	0.00570
Carcinogenic HP7 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00
Carcinogenic HP7 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
pH Corrosive HP8 pH (soil or leachate)	H8 ≥11.5		8.32	8.69	7.91	8.29	10.04	8.74
pH Corrosive HP8 pH (soil or leachate)	H8 ≤2		8.32	8.69	7.91	8.29	10.04	8.74
Toxic for Reproduction HP10	≥0.3%		0.02840	0.03910	0.08470	0.03860	0.76600	0.02610
Toxic for Reproduction HP10	≥3%		0.05010	0.12000	0.36600	0.00748	0.13400	0.00570
Mutagenic HP11	≥0.1%		0.05010	0.12000	0.36600	0.01310	0.13400	0.00533
Mutagenic HP11 Unknown TPH with ID	≥1,000mg/kg		0.00	0.00	0.00	0.00	0.00	0.00



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Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Mutagenic HP11 b(a)p marker test (Unknown TPH with ID only) Cell only applicable if TPH >1,000mg/kg	≥0.01%
Mutagenic HP11	≥1%
Produces Toxic Gases HP12 Sulphide	≥1,400mg/kg
Produces Toxic Gases HP12 Cyanide	≥1,200mg/kg
Produces Toxic Gases HP12 Thiocyanate	≥2,600mg/kg
HP13 Sensitising	≥10%

#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
0.00748	0.00516	0.00747	0.01310	0.09290	0.00570
0.0	0.0	0.0	0.0	0.0	0.0
4.0	1.0	3.0	1.0	1.0	1.0
0.0	0.0	0.0	0.0	0.0	0.0
0.00747	0.00480	0.00749	0.01310	0.09290	0.00533

Ecotoxic HP14 amended v6	≥25%	<0.1%
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0.17261	0.10881	0.19280	0.14737	0.94936	0.21424
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that cc

Haswaste, developed by Dr. Iain Haslock.

Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, Tl, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	0.23114	0.23433	0.56619	0.15558	1.08911	0.22030
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Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that cc

Haswaste, developed by Dr. Iain Haslock.



Ref. 1
Ref. 2
Date

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

Ecotoxic HP14 amended v6	≥25%	<0.1% (except Be, V, Te, TI, Petrol, Diesel, Crude Oil, Kerosene, White Spirit, Crosote, TPH, TPHCWG, Phenol, Cresols, Xylenols, T- Phenols, CompCN, Thiocyanate, Toluene, Ethylbenzene , Xylene + BTEX 1%).	17.84468	12.13402	23.01183	14.81936	96.33160	21.48285
Persistent Organic Pollutant (PCB, PBB or POP Pesticides)	>0.005%		0.00000000	0.00000000	0.00000000	0.00000000	0.00000000	0.00000000
Persistent Organic Pollutant (Total Dioxins+Furans)	>0.0000015%		0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date _____

Persistent Organic Pollutant (Individual Dioxins+Furans)

>0.0000015%

Please enter available data in the rows associated with the test (grey) cells. Calculation cells
If any calculation cells below state "0.00000", testing has NOT been undertaken that cc

TP201	TP203	TP203	TP207	TP202	WS204
0.50	0.30	1.20	0.20	0.50	0.40
12-Jul-22	12-Jul-22	12-Jul-22	13-Jul-22	13-Jul-22	13-Jul-22

0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000	0.0000000000
--------------	--------------	--------------	--------------	--------------	--------------

Date _____

pH (leachate)

Aluminium
Bismuth
CrIII
Iron
Strontium
Tellurium
Thallium

[illegible]

Please enter available data in the rows associated with the following categories.
If any calculation cells below state "0," please enter "0" in the corresponding cell.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

7.97	10.56	7.88	7.81	7.16	9.56
31	103	119	1	1	28
1.4	2.5	2.6	0.8	0.9	4.3
76	77	231	51	10	178
27	28	28	28	22	34
101	343	709	18	9	313
0.17	4.47	1.52	0.67	0.17	0.39
21	30	42	19	18	51
1	1	2	1	1	1
78	181	341	45	56	186
120.00	184.00	353.00	122.00	84.00	429.00
0.6	1.1	2.0	0.6	0.7	1.4
34	55	55	28	22	45
4.00	4.00	8.00	1.00	1.00	6.00
5	5	8	5	5	6



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Titanium

Tungsten

Ammoniacal N

ws Boron

PAH (Input Total PAH **OR** individual PAH results)

Acenaphthene

Acenaphthylene

Anthracene

Benzo(a)anthracene

Benzo(a)pyrene

Benzo(b)fluoranthene

Benzo(ghi)perylene

Benzo(k)fluoranthene

Chrysene

Dibenzo(ah)anthracene

Fluoranthene

Fluorene

Indeno(123cd)pyrene

Naphthalene

Phenanthrene

Pyrene

Coronene

Total PAHs (16 or 17)

TPH

Petrol

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000",

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

2.4	1.0	1.1	1.0	1.0	2.1

0.08	10.70	12.40	0.48	0.30	3.86

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Haswaste, developed by Dr. Iain Haslock.



Ref. 1

Ref. 2

Date

Diesel
Lube Oil

Crude Oil

White Spirit / Kerosene

Creosote

Unknown TPH with ID

Unknown TPHCWG

Total Sulphide

Complex Cyanide

Free (or Total) Cyanide

Thiocyanate

Elemental/Free Sulphur

Phenols Input Total Phenols HPLC **OR** individual Phenol results.

Phenol

Cresols

Xylenols

Resorcinol

Phenols Total by HPLC

BTEX Input Total BTEX **OR** individual BTEX results.

Benzene

Toluene

Ethylbenzene

Xylenes

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with that Hazardous Property.
If any calculation cells below state "0.0000",

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

		157.0		22.0	90.0
1	1	1	1	1	1

0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2
0.2	0.2	0.2	0.2	0.2	0.2

		0.01		0.01	0.01
		0.01		0.01	0.01
		0.01		0.01	0.01
		0.01		0.01	0.01



Haswaste, developed by Dr. Iain Haslock.

Ref. 1

Ref. 2

Date

Total BTEX

PCBs (POPs)

PCBs Total (eg EC7/WHO12)

PBBs (POPs)

Hexabromobiphenyl (Total or PBB153; 2,2',4,4',5,5'- if only available)

initially display either "0.0000" or "#DIV/0!".
contributes to that Hazardous Property.

Please enter available data in the rows associated with the Hazardous Property.
If any calculation cells below state "0.0000", it is because no data is available.

WS204	WS205	TP204	TP203	WS202	WS203
1.40	0.30	0.60	2.50	1.50	0.50
13-Jul-22	13-Jul-22	13-Jul-22	12-Jul-22	21-Jul-22	21-Jul-22

mg/kg

mg/kg

mg/kg