

Data Summary Statistics

Site:	Castlefield Viaduct	Project No:	PC2387
Data Description:	Soil	SOM (%):	1.0%
Land Use:	Allotment	Completed By:	KD
Receptor:	Human Health	Checked By:	PP

Assessment Criteria Key

- a) LQM/CIEH S4UL

b) RHDHV GAC

c) CL:AIRE / EIC GAC

d) CL:AIRE / EIC & RHDHV GAC
- e) DEFRA C4SL

f)

g)

h)

Contaminant	Units	Method Detection Limit	Assessment Criteria (AC)	Source (see key)	Summary Statistics							Sample Identifiers and Analytical Data										
					Total Number of Samples	Results Above Detection Limit	Minimum	Maximum	Arithmetic Mean	Standard Deviation	Number of results >AC	HP101	HP102	HP103	HP104	HP105	HP106	HP107	HP108	HP109	HP110	HP Dup 1
												0.00-0.25	0.00-0.30	0.00-0.15	0.00-0.30	0.00-0.20	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.15	0.00-0.10	one Supplier
												08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021
Asbestos in Soil	Type	N/A	-		0	0	#VALUE!	#VALUE!	-	-	-	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected	Not-detected
pH - Automated	pH Units	N/A	-		11	11	7.7	8	7.86363636	0.11200649	-	7.7	8	7.8	8	7.9	7.9	7.8	7.7	8	7.8	7.9
Ammoniacal Nitrogen as N	mg/kg	0.5	-		11	4	0.5	2.3	0.81818182	0.57239529	-	< 0.5	< 0.5	0.8	< 0.5	1	2.3	< 0.5	< 0.5	1.4	< 0.5	< 0.5
Total Organic Carbon (TOC)	%	0.1	-		11	11	4.8	8.1	6.46363636	1.13514116	-	6.3	6	8.1	4.8	4.8	6.3	5.8	8.1	6.4	7.4	7.1
Total Phenols (monohydric)	mg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
			-																			
Naphthalene	mg/kg	0.05	4.1	a	11	11	0.58	18	4.22636364	5.55266472	2	2.7	1.8	2.4	2.3	1.4	1.1	3.3	0.91	0.58	18	12
Acenaphthylene	mg/kg	0.05	28	a	11	9	0.05	28	5.07818182	10.1652445	0	0.61	< 0.05	1.3	0.27	0.59	0.69	0.95	0.35	< 0.05	28	23
Acenaphthene	mg/kg	0.05	34	a	11	11	1.4	85	17.9272727	30.4506844	2	7.4	1.6	6.2	3.6	2.9	3.1	11	1.4	2	85	73
Fluorene	mg/kg	0.05	27	a	11	11	0.97	50	10.7245455	18.0696604	2	5.2	1	3.7	2	1.7	1.9	6.3	0.97	1.2	50	44
Phenanthrene	mg/kg	0.05	15	a	11	11	11	540	114.818182	189.97885	8	49	13	54	20	24	22	68	12	11	540	450
Anthracene	mg/kg	0.05	380	a	11	11	2.4	130	27.3454545	44.1609865	0	13	3.3	16	4.2	6.5	5.1	17	3.3	2.4	130	100
Fluoranthene	mg/kg	0.05	52	a	11	11	17	760	183.363636	265.891058	6	81	24	170	29	65	43	140	28	17	760	660
Pyrene	mg/kg	0.05	110	a	11	11	16	710	171.909091	244.8385	4	78	23	170	26	67	42	130	29	16	710	600
Benzo(a)anthracene	mg/kg	0.05	-		11	11	6.7	320	87.4272727	116.218364	-	41	14	97	14	39	22	83	15	6.7	320	310
Chrysene	mg/kg	0.05	4.1	a	11	11	6.3	270	71.6636364	90.2270721	11	39	12	94	14	33	22	64	14	6.3	270	220
Benzo(b)fluoranthene	mg/kg	0.05	-		11	11	7.3	310	92.2090909	113.974826	-	44	14	130	16	46	24	94	19	7.3	310	310
Benzo(k)fluoranthene	mg/kg	0.05	-		11	11	2.9	150	39.1545455	50.5491912	-	16	5.3	97	5.9	16	11	23	7.6	2.9	150	96
Benzo(a)pyrene	mg/kg	0.05	5.7	e	11	11	6.4	320	79.9454545	111.13412	11	37	12	62	13	39	22	72	16	6.4	320	280
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	-		11	11	2.8	150	37.8636364	52.0378376	-	14	5.8	42	5.9	17	9.8	31	8.2	2.8	150	130
Dibenz(a,h)anthracene	mg/kg	0.05	-		11	11	0.74	32	9.00363636	10.9829753	-	4.4	1.4	12	1.8	4.3	2.7	9.5	2.2	0.74	32	28
Benzo(ghi)perylene	mg/kg	0.05	-		11	11	3.3	180	44.8636364	63.36591	-	17	6.5	46	6.4	19	11	35	9.3	3.3	180	160
			-																			
Speciated Total EPA-16 PAHs	mg/kg	0.8	-		11	11	86.1	4040	994.190909	1404.21679	-	448	140	996	164	382	243	781	166	86.1	4040	3490
			-																			
Arsenic (aqua regia extractable)	mg/kg	1	49	e	11	11	16	83	59.5454545	17.935237	9	62	69	51	66	44	76	66	83	16	60	62
Barium (aqua regia extractable)	mg/kg	1	1300	c	11	11	56	610	313.272727	135.313777	0	310	230	610	220	330	330	410	310	56	360	280
Beryllium (aqua regia extractable)	mg/kg	0.06	35	a	11	11	1.2	1.9	1.55454545	0.26215887	0	1.7	1.9	1.5	1.3	1.2	1.8	1.9	1.4	1.2	1.7	1.5
Boron (water soluble)	mg/kg	0.2	45	a	11	11	0.3	1.3	0.79090909	0.28090762	0	1.1	0.7	0.7	0.5	0.6	1	0.3	0.9	1.3	0.8	0.8
Cadmium (aqua regia extractable)	mg/kg	0.2	3.9	e	11	7	0.2	3.4	1.76363636	1.31626192	0	2.4	3.1	2.6	2.7	1.6	3.4	2.8	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	1.2	170	e	11	0	1.2	1.2	-	-	0	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2
Chromium (III)	mg/kg	1	18000	a	11	11	44	81	60.5454545	9.5850262	0	58	69	63	60	57	63	64	81	44	56	51
Chromium (aqua regia extractable)	mg/kg	1	-		11	11	45	82	60.9090909	9.65872192	-	58	69	63	61	57	64	64	82	45	56	51
Copper (aqua regia extractable)	mg/kg	1	520	a	11	11	38	340	268.909091	88.0970539	0	330	310	230	250	210	320	290	340	38	330	310
Lead (aqua regia extractable)	mg/kg	1	80	e	11	11	59	4400	1357.18182	1144.33446	10	1200	550	4400	520	1400	1100	2100	1200	59	1400	1000
Mercury (aqua regia extractable)	mg/kg	0.3	19	a	11	0	0.3	0.3	-	-	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	1	53	a	11	11	39	150	71.4545455	28.1828446	10	67	80	150	61	55	70	70	73	39	60	61
Selenium (aqua regia extractable)	mg/kg	1	88	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	91	a	11	11	65	85	71.8181818	6.46247912	0	67	70	65	68	67	85	82	76	69	71	70
Zinc (aqua regia extractable)	mg/kg	1	620	a	11	11	110	990	484.545455	250.813223	3	680	290	500	320	320	390	480	460	110	990	790
			-																			
Benzene	µg/kg	1	18	e	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	22000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Data Summary Statistics

Site:	Castlefield Viaduct	Project No:	PC2387
Data Description:	Soil	SOM (%):	1.0%
Land Use:	Allotment	Completed By:	KD
Receptor:	Human Health	Checked By:	PP

Assessment Criteria Key

- | | |
|------------------------------|---------------|
| a) LQM/ClEH S4UL | e) DEFRA C4SL |
| b) RHDHV GAC | f) |
| c) CL:AIRE / EIC GAC | g) |
| d) CL:AIRE / EIC & RHDHV GAC | h) |

Contaminant	Units	Method Detection Limit	Assessment Criteria (AC)	Source (see key)	Summary Statistics							Sample Identifiers and Analytical Data										
					Total Number of Samples	Results Above Detection Limit	Minimum	Maximum	Arithmetic Mean	Standard Deviation	Number of results >AC	HP101	HP102	HP103	HP104	HP105	HP106	HP107	HP108	HP109	HP110	HP Dup 1
												0.00-0.25 08/07/2021	0.00-0.30 08/07/2021	0.00-0.15 08/07/2021	0.00-0.30 08/07/2021	0.00-0.20 08/07/2021	0.00-0.30 08/07/2021	0.00-0.30 08/07/2021	0.00-0.30 08/07/2021	0.00-0.15 08/07/2021	0.00-0.10 08/07/2021	one Sample 08/07/2021
Vinyl Chloride	µg/kg	1	1.7	e	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichlorofluoromethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethene	µg/kg	1	2900	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloro 1,2,2-Trifluoroethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,2-dichloroethene	µg/kg	1	260	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	23000	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloroethane	µg/kg	1	9200	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2,2-Dichloropropane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloromethane	µg/kg	1	420	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	µg/kg	1	48000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloroethane	µg/kg	1	4.6	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1-Dichloropropene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,2-dichloroethene	µg/kg	1	930	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Benzene	µg/kg	1	18	e	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloromethane	µg/kg	1	450	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichloropropane	µg/kg	1	620	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trichloroethene	µg/kg	1	32	e	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromomethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromodichloromethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Cis-1,3-dichloropropene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Trans-1,3-dichloropropene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	22000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2-Trichloroethane	µg/kg	1	280	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichloropropane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Dibromochloromethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tetrachloroethene	µg/kg	1	2000	e	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromoethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Chlorobenzene	µg/kg	1	5900	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,1,2-Tetrachloroethane	µg/kg	1	790	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	16000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-Xylene	µg/kg	1	29000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Styrene	µg/kg	1	1600	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Tribromomethane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-Xylene	µg/kg	1	28000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,1,2,2-Tetrachloroethane	µg/kg	1	410	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Isopropylbenzene	µg/kg	1	32000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Bromobenzene	µg/kg	1	3200	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
n-Propylbenzene	µg/kg	1	34000	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
2-Chlorotoluene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
4-Chlorotoluene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3,5-Trimethylbenzene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
tert-Butylbenzene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trimethylbenzene	µg/kg	1	380	c	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
sec-Butylbenzene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,3-Dichlorobenzene	µg/kg	1	250	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p-Isopropyltoluene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	µg/kg	1	94000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,4-Dichlorobenzene	µg/kg	1	15000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Butylbenzene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2-Dibromo-3-chloropropane	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,4-Trichlorobenzene	µg/kg	1	55000	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Hexachlorobutadiene	µg/kg	1	-		11	0	1	1	-	-	-	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
1,2,3-Trichlorobenzene	µg/kg	1	4700	a	11	0	1	1	-	-	0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
			-																			
Aniline	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Phenol	mg/kg	0.2	23	a	11	0	0.2	0.2	-	-	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
2-Chlorophenol	mg/kg	0.1	0.13	a	11	0	0.1	0.1	-	-	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Bis(2-chloroethyl)ether	mg/kg	0.2	-		11	0	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
1,3-Dichlorobenzene	mg/kg	0.2	0.25	a	11	0	0.2	0.2	-													

Data Summary Statistics

Site:	Castlefield Viaduct	Project No:	PC2387
Data Description:	Soil	SOM (%):	1.0%
Land Use:	Allotment	Completed By:	KD
Receptor:	Human Health	Checked By:	PP

Assessment Criteria Key

- a) LQM/CIEH S4UL
b) RHDHV GAC
c) CL:AIRE / EIC GAC
d) CL:AIRE / EIC & RHDHV GAC
- e) DEFRA C4SL
f)
g)
h)

Contaminant	Units	Method Detection Limit	Assess-ment Criteria (AC)	Source (see key)	Summary Statistics							Sample Identifiers and Analytical Data										
					Total Number of Samples	Results Above Detection Limit	Minimum	Maximum	Arithmetic Mean	Standard Deviation	Number of results >AC	HP101	HP102	HP103	HP104	HP105	HP106	HP107	HP108	HP109	HP110	HP Dup 1
												0.00-0.25	0.00-0.30	0.00-0.15	0.00-0.30	0.00-0.20	0.00-0.30	0.00-0.30	0.00-0.30	0.00-0.15	0.00-0.10	one Supplie
												08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021	08/07/2021
Naphthalene	mg/kg	0.05	4.1	a	11	11	0.58	18	4.22636364	5.55266472	2	2.7	1.8	2.4	2.3	1.4	1.1	3.3	0.91	0.58	18	12
2,4-Dichlorophenol	mg/kg	0.3	0.13	a	11	0	0.3	0.3	-	-	11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
4-Chloroaniline	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Hexachlorobutadiene	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
4-Chloro-3-methylphenol	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,6-Trichlorophenol	mg/kg	0.1	0.13	a	11	0	0.1	0.1	-	-	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,4,5-Trichlorophenol	mg/kg	0.2	-		11	0	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
2-Methylnaphthalene	mg/kg	0.1	-		11	2	0.1	29	4.9	10.7376906	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	29	24
2-Chloronaphthalene	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Dimethylphthalate	mg/kg	0.1	-		11	0	0.1	0.1	-	-	-	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
2,6-Dinitrotoluene	mg/kg	0.1	0.12	c	11	0	0.1	0.1	-	-	0	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acenaphthylene	mg/kg	0.05	28	a	11	8	0.05	23	2.53727273	6.79835582	0	0.61	< 0.05	1.3	0.27	0.59	0.69	0.95	0.35	< 0.05	< 0.05	23
Acenaphthene	mg/kg	0.05	34	a	11	11	1.4	85	17.9272727	30.4506844	2	7.4	1.6	6.2	3.6	2.9	3.1	11	1.4	2	85	73
2,4-Dinitrotoluene	mg/kg	0.2	-		11	0	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
Dibenzofuran	mg/kg	0.2	-		11	2	0.2	25	4.43636364	9.44915581	-	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	25	22
4-Chlorophenyl phenyl ether	mg/kg	0.3	-		11	0	0.3	0.3	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Diethyl phthalate	mg/kg	0.2	19	c	11	0	0.2	0.2	-	-	0	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
4-Nitroaniline	mg/kg	0.2	-		11	0	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
Fluorene	mg/kg	0.05	27	a	11	11	0.97	50	10.7245455	18.0696604	2	5.2	1	3.7	2	1.7	1.9	6.3	0.97	1.2	50	44
Azobenzene	mg/kg	0.3	-		11	0	0.3	0.3	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Bromophenyl phenyl ether	mg/kg	0.2	-		11	0	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
Hexachlorobenzene	mg/kg	0.3	0.47	a	11	0	0.3	0.3	-	-	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Phenanthrene	mg/kg	0.05	15	a	11	11	11	540	114.818182	189.97885	8	49	13	54	20	24	22	68	12	11	540	450
Anthracene	mg/kg	0.05	380	a	11	11	2.4	130	27.3454545	44.1609865	0	13	3.3	16	4.2	6.5	5.1	17	3.3	2.4	130	100
Carbazole	mg/kg	0.3	-		11	0	0.3	0.3	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Dibutyl phthalate	mg/kg	0.2	-		11	0	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
Anthraquinone	mg/kg	0.3	-		11	0	0.3	0.3	-	-	-	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Fluoranthene	mg/kg	0.05	52	a	11	11	17	760	183.363636	265.891058	6	81	24	170	29	65	43	140	28	17	760	660
Pyrene	mg/kg	0.05	110	a	11	11	16	710	171.909091	244.8385	4	78	23	170	26	67	42	130	29	16	710	600
Butyl benzyl phthalate	mg/kg	0.3	220	c	11	0	0.3	0.3	-	-	0	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Benzo(a)anthracene	mg/kg	0.05	-		11	11	6.7	320	87.4272727	116.218364	-	41	14	97	14	39	22	83	15	6.7	320	310
Chrysene	mg/kg	0.05	4.1	a	11	11	6.3	270	71.6636364	90.2270721	11	39	12	94	14	33	22	64	14	6.3	270	220
Benzo(b)fluoranthene	mg/kg	0.05	-		11	11	7.3	310	92.2090909	113.974826	-	44	14	130	16	46	24	94	19	7.3	310	310
Benzo(k)fluoranthene	mg/kg	0.05	-		11	11	2.9	150	39.1545455	50.5491912	-	16	5.3	97	5.9	16	11	23	7.6	2.9	150	96
Benzo(a)pyrene	mg/kg	0.05	5.7	e	11	11	6.4	320	79.9454545	111.13412	11	37	12	62	13	39	22	72	16	6.4	320	280
Indeno(1,2,3-cd)pyrene	mg/kg	0.05	-		11	11	2.8	150	37.8636364	52.0378376	-	14	5.8	42	5.9	17	9.8	31	8.2	2.8	150	130
Dibenz(a,h)anthracene	mg/kg	0.05	-		11	11	0.74	32	9.00363636	10.9829753	-	4.4	1.4	12	1.8	4.3	2.7	9.5	2.2	0.74	32	28
Benzo(ghi)perylene	mg/kg	0.05	-		11	11	3.3	180	44.8636364	63.36591	-	17	6.5	46	6.4	19	11	35	9.3	3.3	180	160
			-																			
2,3,6-TBA	µg/kg	50	-		3	0	50	50	-	-	-	< 50	< 50	< 50	-	-	-	-	-	-	-	-
2,4,5-T	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
2,4,5-TP (Fenoprop)	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
2,4-D	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
2,4-DB	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
4-CPA	µg/kg	20	-		3	0	20	20	-	-	-	< 20	< 20	< 20	-	-	-	-	-	-	-	-
Bromacil	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Bromoxynil	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Clopyralid	µg/kg	100	-		3	0	100	100	-	-	-	< 100	< 100	< 100	-	-	-	-	-	-	-	-
Dicamba	µg/kg	20	-		3	0	20	20	-	-	-	< 20	< 20	< 20	-	-	-	-	-	-	-	-
Diclofop	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Dichlorprop	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Dinoseb	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Flamprop	µg/kg	50	-		3	0	50	50	-	-	-	< 50	< 50	< 50	-	-	-	-	-	-	-	-
Flamprop-Isopropyl	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Ioxynil	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
MCPA	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
MCPB	µg/kg	20	-		3	0	20	20	-	-	-	< 20	< 20	< 20	-	-	-	-	-	-	-	-
MCPP (Mecoprop)	µg/kg	10	-		3	0	10	10	-	-	-	< 10	< 10	< 10	-	-	-	-	-	-	-	-
Picloram	µg/kg	50	-		3	0	50	50	-	-	-	< 50	< 50	< 50	-	-	-	-	-	-	-	-