

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211063	211064	211065	211066	211067
Sample Reference				WS7	WS8	WS8	WS9	WS9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	2.00	4.00	0.50	1.50
Date Sampled				03/04/2012	03/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	42	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	25	12	15	20	22
Total mass of sample received	kg	0.001	NONE	1.5	1.3	1.2	1.2	1.3
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.4	9.4	8.4	8.2	8.0
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	2100	16000	34000	680	670
Organic Matter	%	0.1	MCERTS	1.9	1.7	1.9	1.1	1.6

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	2.1	0.82	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	1.1	0.47	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	11	4.3	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	< 0.10	1.7	0.93	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	< 0.20	12	6.2	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	< 0.20	9.3	5.0	< 0.20	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	4.9	3.0	< 0.20	< 0.20
Chrysene	mg/kg	0.05	MCERTS	< 0.05	5.1	2.7	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	5.2	4.1	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	2.4	1.2	< 0.20	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	4.1	2.8	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	2.3	1.7	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	0.32	0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	2.6	2.0	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	64	35	< 1.6	< 1.6
-------------------	-------	-----	------	-------	----	----	-------	-------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	16	20	13	14	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	160	320	210	100	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	0.3	0.6	1.4	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	0.9	0.4	1.4	0.4	0.3
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	N/A	N/A	< 4.0	N/A
Chromium (III)	mg/kg	1	NONE	N/A	N/A	N/A	38	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31	21	25	38	37
Copper (aqua regia extractable)	mg/kg	1	MCERTS	74	160	76	46	46
Lead (aqua regia extractable)	mg/kg	2	MCERTS	330	280	230	170	130
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.1	< 0.3	< 0.3	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	28	23	25	37	26
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	65	30	41	77	70
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	130	350	340	75	66

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211063	211064	211065	211066	211067
Sample Reference				WS7	WS8	WS8	WS9	WS9
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				3.00	2.00	4.00	0.50	1.50
Date Sampled				03/04/2012	03/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	13	< 1.0	< 1.0	< 1.0	2.9
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	67	21	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	190	84	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	35	170	91	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	35	430	200	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	20	5.3	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	110	42	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	110	49	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	240	96	< 10	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211068	211069	211070	211071	211072
Sample Reference				WS10	WS10	WS11A	WS11A	WS11A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	3.50	1.00	2.50	4.50
Date Sampled				03/04/2012	03/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	45	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	21	22	22	25
Total mass of sample received	kg	0.001	NONE	1.2	1.3	1.2	1.0	1.2
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.3	8.1	8.1	7.9	7.8
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	640	5900	600	11000	1800
Organic Matter	%	0.1	MCERTS	1.6	1.6	2.1	0.9	5.0

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	0.65	< 0.20	< 0.20	< 0.20	0.44
Pyrene	mg/kg	0.2	MCERTS	0.55	< 0.20	< 0.20	< 0.20	0.34
Benzo(a)anthracene	mg/kg	0.2	MCERTS	0.21	0.24	< 0.20	< 0.20	0.27
Chrysene	mg/kg	0.05	MCERTS	0.45	0.37	< 0.05	< 0.05	0.55
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.36	0.33	< 0.10	< 0.10	0.53
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	0.22	0.20	< 0.20	< 0.20	0.33
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.23	< 0.10	< 0.10	< 0.10	0.57
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	2.8	< 1.6	< 1.6	< 1.6	3.0
-------------------	-------	-----	------	-----	-------	-------	-------	-----

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	18	14	15	13	17
Barium (aqua regia extractable)	mg/kg	1	MCERTS	240	110	120	58	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	3.8	1.2	1.3	1.3	1.3
Boron (water soluble)	mg/kg	0.2	MCERTS	< 0.2	2.2	1.7	2.0	6.5
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	N/A	N/A	< 4.0	N/A
Chromium (III)	mg/kg	1	NONE	N/A	N/A	N/A	46	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	25	35	37	46	33
Copper (aqua regia extractable)	mg/kg	1	MCERTS	52	49	69	41	230
Lead (aqua regia extractable)	mg/kg	2	MCERTS	200	140	270	58	1200
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	1.7	< 0.3	1.8	< 0.3	2.6
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	34	34	27	46	29
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	60	65	64	75	69
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	57	110	82	85	120



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211068	211069	211070	211071	211072
Sample Reference				WS10	WS10	WS11A	WS11A	WS11A
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.50	3.50	1.00	2.50	4.50
Date Sampled				03/04/2012	03/04/2012	03/04/2012	03/04/2012	03/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211073	211074	211075	211076	211077
Sample Reference				WS12	WS12	WS13	WS14	WS14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	3.00	0.60	0.80	1.20
Date Sampled				04/04/2012	04/04/2012	04/04/2012	04/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	23	24	6.6	18	18
Total mass of sample received	kg	0.001	NONE	1.1	1.3	1.4	1.2	1.1
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	7.9	8.1	8.2	7.8	7.9
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	1100	840	150	6500	1500
Organic Matter	%	0.1	MCERTS	2.5	1.9	0.6	1.8	1.6

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	3.4	< 0.20	1.7	< 0.20
Anthracene	mg/kg	0.1	MCERTS	< 0.10	0.86	< 0.10	0.61	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	< 0.20	4.2	< 0.20	3.2	0.68
Pyrene	mg/kg	0.2	MCERTS	< 0.20	3.2	< 0.20	2.8	0.63
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	1.6	< 0.20	1.7	0.22
Chrysene	mg/kg	0.05	MCERTS	< 0.05	2.3	< 0.05	2.0	0.52
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	1.9	< 0.10	2.2	0.48
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	0.76	< 0.20	1.2	0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	1.5	< 0.10	2.2	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	0.55	< 0.20	1.2	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.61	< 0.05	1.6	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	21	< 1.6	20	2.8
-------------------	-------	-----	------	-------	----	-------	----	-----

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	12	3.2	17	15
Barium (aqua regia extractable)	mg/kg	1	MCERTS	130	140	43	300	140
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.3	1.4	0.2	0.9	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	2.1	1.8	< 0.2	3.5	3.2
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	0.4	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	< 4.0	N/A	N/A	N/A
Chromium (III)	mg/kg	1	NONE	N/A	41	N/A	N/A	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	32	41	6.7	32	34
Copper (aqua regia extractable)	mg/kg	1	MCERTS	78	54	140	120	71
Lead (aqua regia extractable)	mg/kg	2	MCERTS	270	160	37	550	240
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	0.5	< 0.3	< 0.3	0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	27	38	7.0	29	39
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62	79	8.5	55	61
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	97	79	120	500	140



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211073	211074	211075	211076	211077
Sample Reference				WS12	WS12	WS13	WS14	WS14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.00	3.00	0.60	0.80	1.20
Date Sampled				04/04/2012	04/04/2012	04/04/2012	04/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	5.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	40	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	140	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	180	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	12	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	11	< 10	15	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	24	< 10	15	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211078	211079	211080	211081	211082
Sample Reference				WS14	WS15	WS16	WS16	WS16
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.50	1.00	1.50	2.50	3.50
Date Sampled				04/04/2012	04/04/2012	04/04/2012	04/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	22	13	22	16	17
Total mass of sample received	kg	0.001	NONE	1.1	1.2	1.4	1.1	1.0
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	7.7	7.2	7.9	8.0	7.7
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	650	4400	700	1400	1700
Organic Matter	%	0.1	MCERTS	0.8	1.8	2.0	0.8	0.7

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	2.2	1.0	1.5
Anthracene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	0.59	< 0.10	0.41
Fluoranthene	mg/kg	0.2	MCERTS	0.64	1.7	3.0	1.6	2.6
Pyrene	mg/kg	0.2	MCERTS	0.54	1.6	2.3	1.3	2.2
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20	0.69	0.95	0.70	1.0
Chrysene	mg/kg	0.05	MCERTS	< 0.05	1.1	1.2	0.75	1.5
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	< 0.10	1.3	1.0	0.83	1.4
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	< 0.20	0.56	0.45	0.46	0.55
Benzo(a)pyrene	mg/kg	0.1	MCERTS	< 0.10	1.1	0.95	0.77	1.1
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20	0.59	< 0.20	0.43	0.60
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05	0.67	0.63	0.44	0.80
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	< 1.6	9.4	13	8.4	14
-------------------	-------	-----	------	-------	-----	----	-----	----

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	15	18	9.1	10	14
Barium (aqua regia extractable)	mg/kg	1	MCERTS	100	230	90	120	150
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.6	1.1	0.9	0.5	0.7
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3	2.3	1.8	1.4	1.7
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	0.6	0.3	< 0.2	0.3
Chromium (hexavalent)	mg/kg	4	MCERTS	< 4.0	N/A	N/A	N/A	N/A
Chromium (III)	mg/kg	1	NONE	45	N/A	N/A	N/A	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	45	28	34	29	30
Copper (aqua regia extractable)	mg/kg	1	MCERTS	46	87	35	50	62
Lead (aqua regia extractable)	mg/kg	2	MCERTS	120	550	130	190	350
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3	< 0.3	< 0.3	< 0.3	0.4
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	56	29	38	22	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	90	50	50	48	49
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	93	250	260	170	230



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211078	211079	211080	211081	211082
Sample Reference				WS14	WS15	WS16	WS16	WS16
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				4.50	1.00	1.50	2.50	3.50
Date Sampled				04/04/2012	04/04/2012	04/04/2012	04/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	20	5.3	28
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	49	30	72
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	25	30	56
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	94	65	160

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	19
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	12
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	32

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211083	211084	211085	211086	211087
Sample Reference				WS17A	WS17A	WS17A	WS18	WS18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	1.50	4.50	1.50	4.80
Date Sampled				04/04/2012	04/04/2012	04/04/2012	05/04/2012	05/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	40	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	18	21	19	24	25
Total mass of sample received	kg	0.001	NONE	1.2	1.2	1.5	1.3	1.2
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	8.1	8.1	8.0	8.0	7.4
Total Cyanide	mg/kg	1	MCERTS	< 1	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	1500	1000	1000	560	2300
Organic Matter	%	0.1	MCERTS	1.8	0.9	1.9	1.5	5.7

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-------	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	1.7	< 0.20	1.3	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	0.51	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	2.4	0.44	1.7	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	2.1	0.45	1.4	< 0.20	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	0.94	0.31	0.58	< 0.20	< 0.20
Chrysene	mg/kg	0.05	MCERTS	1.3	0.43	1.1	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	1.2	0.35	0.90	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	0.46	0.21	0.44	< 0.20	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.94	0.34	0.65	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	0.43	< 0.20	< 0.20	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	0.59	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	13	2.6	8.2	< 1.6	< 1.6
-------------------	-------	-----	------	----	-----	-----	-------	-------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	20	17	16	17	16
Barium (aqua regia extractable)	mg/kg	1	MCERTS	170	93	92	96	120
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.0	1.0	1.0	1.4	1.1
Boron (water soluble)	mg/kg	0.2	MCERTS	1.5	1.3	1.1	< 0.2	4.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	N/A	N/A	N/A	N/A
Chromium (III)	mg/kg	1	NONE	N/A	N/A	N/A	N/A	N/A
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	28	31	25	36	29
Copper (aqua regia extractable)	mg/kg	1	MCERTS	87	51	49	90	95
Lead (aqua regia extractable)	mg/kg	2	MCERTS	400	170	290	200	290
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	0.9	0.3	0.7	0.5	1.8
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	27	32	25	34	23
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	58	58	48	69	66
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	150	74	71	110	93

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211083	211084	211085	211086	211087
Sample Reference				WS17A	WS17A	WS17A	WS18	WS18
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				0.80	1.50	4.50	1.50	4.80
Date Sampled				04/04/2012	04/04/2012	04/04/2012	05/04/2012	05/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10	< 10	< 10	< 10	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	N/A	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	N/A	N/A	N/A	N/A	N/A



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211088	211089	211090	211091	211092
Sample Reference				WS19	WS19	WS19	WS20	WS20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	3.00	0.50	1.50
Date Sampled				05/04/2012	05/04/2012	05/04/2012	05/04/2012	05/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	33	< 0.1	37	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	13	14	12	18	14
Total mass of sample received	kg	0.001	NONE	1.1	1.0	1.3	1.0	0.95
Asbestos Identification Name	Type	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A	N/A	N/A	N/A	N/A

General Inorganics

pH	pH Units	N/A	MCERTS	N/A	7.9	8.0	7.1	7.5
Total Cyanide	mg/kg	1	MCERTS	N/A	< 1	< 1	< 1	< 1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	N/A	1800	1400	860	2100
Organic Matter	%	0.1	MCERTS	N/A	1.0	1.2	0.8	0.7

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	N/A	< 2.0	< 2.0	< 2.0	< 2.0
----------------------------	-------	---	--------	-----	-------	-------	-------	-------

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	N/A	< 0.05	< 0.05	< 0.05	< 0.05
Acenaphthylene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Acenaphthene	mg/kg	0.1	MCERTS	N/A	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Phenanthrene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Anthracene	mg/kg	0.1	MCERTS	N/A	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene	mg/kg	0.2	MCERTS	N/A	< 0.20	0.92	< 0.20	< 0.20
Pyrene	mg/kg	0.2	MCERTS	N/A	< 0.20	0.80	< 0.20	< 0.20
Benzo(a)anthracene	mg/kg	0.2	MCERTS	N/A	< 0.20	0.33	< 0.20	< 0.20
Chrysene	mg/kg	0.05	MCERTS	N/A	< 0.05	0.52	< 0.05	< 0.05
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	N/A	< 0.10	0.55	< 0.10	< 0.10
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(a)pyrene	mg/kg	0.1	MCERTS	N/A	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	N/A	< 0.20	< 0.20	< 0.20	< 0.20
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	N/A	< 0.05	< 0.05	< 0.05	< 0.05
Coronene	mg/kg	0.05	NONE	N/A	< 0.05	< 0.05	< 0.05	< 0.05

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	N/A	< 1.6	3.2	< 1.6	< 1.6
-------------------	-------	-----	------	-----	-------	-----	-------	-------

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	N/A	11	12	12	12
Barium (aqua regia extractable)	mg/kg	1	MCERTS	N/A	100	86	37	61
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	N/A	1.1	0.7	1.3	1.2
Boron (water soluble)	mg/kg	0.2	MCERTS	N/A	1.5	0.7	0.8	1.6
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	N/A	< 0.2	< 0.2	< 0.2	< 0.2
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A	< 4.0	N/A	< 4.0	< 4.0
Chromium (III)	mg/kg	1	NONE	N/A	37	N/A	47	44
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	N/A	37	22	47	44
Copper (aqua regia extractable)	mg/kg	1	MCERTS	N/A	35	40	32	33
Lead (aqua regia extractable)	mg/kg	2	MCERTS	N/A	72	560	21	42
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	N/A	< 0.3	0.4	< 0.3	< 0.3
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	N/A	36	22	50	44
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	N/A	60	41	83	74
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	N/A	64	50	72	74

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211088	211089	211090	211091	211092
Sample Reference				WS19	WS19	WS19	WS20	WS20
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.00	2.00	3.00	0.50	1.50
Date Sampled				05/04/2012	05/04/2012	05/04/2012	05/04/2012	05/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	N/A	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	N/A	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	N/A	< 8.0	< 8.0	< 8.0	< 8.0
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	N/A	< 10	< 10	< 10	< 10

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	N/A	< 0.1	< 0.1	< 0.1	< 0.1
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	N/A	< 1.0	< 1.0	< 1.0	< 1.0
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	N/A	< 2.0	< 2.0	< 2.0	< 2.0
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	N/A	< 10	< 10	< 10	< 10
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	N/A	< 10	< 10	< 10	< 10
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	N/A	< 10	< 10	< 10	< 10

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 52	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 101	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 118	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 138	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 153	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
PCB Congener 180	mg/kg	0.02	NONE	< 0.02	N/A	N/A	N/A	N/A
Total PCBs	mg/kg	0.3	NONE	< 0.30	N/A	N/A	N/A	N/A

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211093				
Sample Reference				WS21				
Sample Number				None Supplied				
Depth (m)				0.80				
Date Sampled				04/04/2012				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1				
Moisture Content	%	N/A	NONE	14				
Total mass of sample received	kg	0.001	NONE	1.0				
Asbestos Identification Name	Type	N/A	ISO 17025	N/A				
Asbestos in Soil Screen	P/A	N/A	ISO 17025	N/A				

General Inorganics

pH	pH Units	N/A	MCERTS	7.2				
Total Cyanide	mg/kg	1	MCERTS	< 1				
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	3300				
Organic Matter	%	0.1	MCERTS	1.8				

Total Phenols

Total Phenols (monohydric)	mg/kg	2	MCERTS	< 2.0				
----------------------------	-------	---	--------	-------	--	--	--	--

Speciated PAHs

Naphthalene	mg/kg	0.05	MCERTS	< 0.05				
Acenaphthylene	mg/kg	0.2	MCERTS	< 0.20				
Acenaphthene	mg/kg	0.1	MCERTS	< 0.10				
Fluorene	mg/kg	0.2	MCERTS	< 0.20				
Phenanthrene	mg/kg	0.2	MCERTS	< 0.20				
Anthracene	mg/kg	0.1	MCERTS	< 0.10				
Fluoranthene	mg/kg	0.2	MCERTS	1.3				
Pyrene	mg/kg	0.2	MCERTS	1.2				
Benzo(a)anthracene	mg/kg	0.2	MCERTS	< 0.20				
Chrysene	mg/kg	0.05	MCERTS	< 0.05				
Benzo(b)fluoranthene	mg/kg	0.1	MCERTS	0.59				
Benzo(k)fluoranthene	mg/kg	0.2	MCERTS	0.29				
Benzo(a)pyrene	mg/kg	0.1	MCERTS	0.34				
Indeno(1,2,3-cd)pyrene	mg/kg	0.2	MCERTS	< 0.20				
Dibenz(a,h)anthracene	mg/kg	0.2	MCERTS	< 0.20				
Benzo(ghi)perylene	mg/kg	0.05	MCERTS	< 0.05				
Coronene	mg/kg	0.05	NONE	< 0.05				

Total PAH

Total WAC-17 PAHs	mg/kg	1.6	NONE	3.8				
-------------------	-------	-----	------	-----	--	--	--	--

Heavy Metals / Metalloids

Arsenic (aqua regia extractable)	mg/kg	1	MCERTS	14				
Barium (aqua regia extractable)	mg/kg	1	MCERTS	72				
Beryllium (aqua regia extractable)	mg/kg	0.06	MCERTS	1.1				
Boron (water soluble)	mg/kg	0.2	MCERTS	1.3				
Cadmium (aqua regia extractable)	mg/kg	0.2	MCERTS	< 0.2				
Chromium (hexavalent)	mg/kg	4	MCERTS	N/A				
Chromium (III)	mg/kg	1	NONE	N/A				
Chromium (aqua regia extractable)	mg/kg	1	MCERTS	31				
Copper (aqua regia extractable)	mg/kg	1	MCERTS	73				
Lead (aqua regia extractable)	mg/kg	2	MCERTS	130				
Mercury (aqua regia extractable)	mg/kg	0.3	MCERTS	< 0.3				
Nickel (aqua regia extractable)	mg/kg	2	MCERTS	30				
Selenium (aqua regia extractable)	mg/kg	1	MCERTS	< 1.0				
Vanadium (aqua regia extractable)	mg/kg	1	MCERTS	62				
Zinc (aqua regia extractable)	mg/kg	2	MCERTS	73				

Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211093				
Sample Reference				WS21				
Sample Number				None Supplied				
Depth (m)				0.80				
Date Sampled				04/04/2012				
Time Taken				None Supplied				
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/kg	1	MCERTS	< 1.0				
Toluene	µg/kg	1	MCERTS	< 1.0				
Ethylbenzene	µg/kg	1	MCERTS	< 1.0				
p & m-xylene	µg/kg	1	MCERTS	< 1.0				
o-xylene	µg/kg	1	MCERTS	< 1.0				
MTBE (Methyl Tertiary Butyl Ether)	µg/kg	1	MCERTS	< 1.0				

Petroleum Hydrocarbons

TPH7 - Aliphatic >EC5 - EC6	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aliphatic >EC6 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aliphatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aliphatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH7 - Aliphatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH7 - Aliphatic >EC16 - EC21	mg/kg	8	MCERTS	< 8.0				
TPH7 - Aliphatic >EC21 - EC35	mg/kg	8	MCERTS	< 8.0				
TPH7 - Aliphatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

TPH7 - Aromatic >EC5 - EC7	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aromatic >EC7 - EC8	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aromatic >EC8 - EC10	mg/kg	0.1	MCERTS	< 0.1				
TPH7 - Aromatic >EC10 - EC12	mg/kg	1	MCERTS	< 1.0				
TPH7 - Aromatic >EC12 - EC16	mg/kg	2	MCERTS	< 2.0				
TPH7 - Aromatic >EC16 - EC21	mg/kg	10	MCERTS	< 10				
TPH7 - Aromatic >EC21 - EC35	mg/kg	10	MCERTS	< 10				
TPH7 - Aromatic (EC5 - EC35)	mg/kg	10	MCERTS	< 10				

PCBs by GC-MS

PCB Congener 28	mg/kg	0.02	NONE	N/A				
PCB Congener 52	mg/kg	0.02	NONE	N/A				
PCB Congener 101	mg/kg	0.02	NONE	N/A				
PCB Congener 118	mg/kg	0.02	NONE	N/A				
PCB Congener 138	mg/kg	0.02	NONE	N/A				
PCB Congener 153	mg/kg	0.02	NONE	N/A				
PCB Congener 180	mg/kg	0.02	NONE	N/A				
Total PCBs	mg/kg	0.3	NONE	N/A				



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number	211094	211095	211096	211097	211098
Sample Reference	WS1	WS4	WS6	WS9	WS13
Sample Number	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)	2.50	2.00	1.20	1.00	1.50
Date Sampled	02/04/2012	02/04/2012	03/04/2012	03/04/2012	04/04/2012
Time Taken	None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	7.9	7.7	7.8	7.1	6.9
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
Sulphate as SO ₄	µg/l	100	ISO 17025	64000	82000	25000	25000	7600

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10	< 10	< 10
----------------------------	------	----	-----------	------	------	------	------	------

Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
-------------------	------	-----	------	-------	-------	-------	-------	-------

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	4.1	5.4	8.7	3.0	5.0
Barium (dissolved)	µg/l	0.05	ISO 17025	27	81	20	28	18
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Boron (dissolved)	µg/l	10	ISO 17025	29	170	100	62	43
Cadmium (dissolved)	µg/l	0.1	ISO 17025	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chromium (dissolved)	µg/l	0.4	ISO 17025	7.3	9.0	2.9	2.4	1.7
Copper (dissolved)	µg/l	0.7	ISO 17025	6.3	6.6	12	2.7	3.1
Lead (dissolved)	µg/l	1	ISO 17025	11	21	20	2.5	3.7
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	0.9	< 0.5	< 0.5	< 0.5
Nickel (dissolved)	µg/l	0.3	ISO 17025	2.3	2.1	4.4	1.9	1.2
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0
Vanadium (dissolved)	µg/l	1.7	ISO 17025	4.2	< 1.7	13	< 1.7	< 1.7
Zinc (dissolved)	µg/l	0.4	ISO 17025	14	13	8.9	2.3	3.2



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211094	211095	211096	211097	211098
Sample Reference				WS1	WS4	WS6	WS9	WS13
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				2.50	2.00	1.20	1.00	1.50
Date Sampled				02/04/2012	02/04/2012	03/04/2012	03/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Leachate Analysis)				Units	Limit of detection	Accreditation Status		
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Toluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
o-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10
TPH7 - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10	< 10	< 10



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number	211099	211100	211101		
Sample Reference	WS14	WS17A	WS19		
Sample Number	None Supplied	None Supplied	None Supplied		
Depth (m)	2.50	3.50	5.00		
Date Sampled	04/04/2012	04/04/2012	05/04/2012		
Time Taken	None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status		

General Inorganics

pH	pH Units	N/A	ISO 17025	6.5	6.9	6.9		
Total Cyanide	µg/l	10	ISO 17025	< 10	< 10	< 10		
Sulphate as SO ₄	µg/l	100	ISO 17025	190000	11000	39000		

Total Phenols

Total Phenols (monohydric)	µg/l	10	ISO 17025	< 10	< 10	< 10		
----------------------------	------	----	-----------	------	------	------	--	--

Speciated PAHs

Naphthalene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Acenaphthylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Acenaphthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Fluorene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Phenanthrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(a)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Chrysene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(b)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(k)fluoranthene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(a)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Indeno(1,2,3-cd)pyrene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Dibenz(a,h)anthracene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		
Benzo(ghi)perylene	µg/l	0.01	NONE	< 0.01	< 0.01	< 0.01		

Total PAH

Total EPA-16 PAHs	µg/l	0.2	NONE	< 0.2	< 0.2	< 0.2		
-------------------	------	-----	------	-------	-------	-------	--	--

Heavy Metals / Metalloids

Arsenic (dissolved)	µg/l	1.1	ISO 17025	8.0	5.9	2.2		
Barium (dissolved)	µg/l	0.05	ISO 17025	47	12	20		
Beryllium (dissolved)	µg/l	0.2	ISO 17025	< 0.2	< 0.2	< 0.2		
Boron (dissolved)	µg/l	10	ISO 17025	61	51	16		
Cadmium (dissolved)	µg/l	0.1	ISO 17025	< 0.10	< 0.10	< 0.10		
Chromium (dissolved)	µg/l	0.4	ISO 17025	1.6	3.6	1.5		
Copper (dissolved)	µg/l	0.7	ISO 17025	11	4.8	2.6		
Lead (dissolved)	µg/l	1	ISO 17025	4.6	3.9	1.4		
Mercury (dissolved)	µg/l	0.5	ISO 17025	< 0.5	< 0.5	< 0.5		
Nickel (dissolved)	µg/l	0.3	ISO 17025	1.6	1.4	2.2		
Selenium (dissolved)	µg/l	4	ISO 17025	< 4.0	< 4.0	< 4.0		
Vanadium (dissolved)	µg/l	1.7	ISO 17025	< 1.7	4.2	< 1.7		
Zinc (dissolved)	µg/l	0.4	ISO 17025	3.8	2.8	2.8		



Analytical Report Number: 12-33502
Project / Site name: 103 Camley Street

Lab Sample Number				211099	211100	211101		
Sample Reference				WS14	WS17A	WS19		
Sample Number				None Supplied	None Supplied	None Supplied		
Depth (m)				2.50	3.50	5.00		
Date Sampled				04/04/2012	04/04/2012	05/04/2012		
Time Taken				None Supplied	None Supplied	None Supplied		
Analytical Parameter (Leachate Analysis)	Units	Limit of detection	Accreditation Status					
Monoaromatics								
Benzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
Toluene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
Ethylbenzene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
p & m-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
o-xylene	µg/l	1	NONE	< 1.0	< 1.0	< 1.0		
MTBE (Methyl Tertiary Butyl Ether)	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C5 - C6	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C6 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aliphatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C5 - C7	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C7 - C8	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C8 - C10	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C10 - C12	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C12 - C16	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C16 - C21	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic >C21 - C35	µg/l	10	NONE	< 10	< 10	< 10		
TPH7 - Aromatic (C5 - C35)	µg/l	10	NONE	< 10	< 10	< 10		



Analytical Report Number : 12-33502

Project / Site name: 103 Camley Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content of

a sample is calculated as the % weight of the stones not passing a 2 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
211048	WS1	None Supplied	0.50	Light brown clay with brick.
211049	WS1	None Supplied	0.80	N/A
211050	WS1	None Supplied	2.00	Light brown clay with brick.
211051	WS1	None Supplied	3.50	Light brown clay with chalk and stones.
211052	WS2B	None Supplied	1.50	Light brown clay and topsoil with brick and chalk.
211053	WS2B	None Supplied	3.50	Light brown sandy topsoil with gravel and brick.
211054	WS3	None Supplied	1.00	Light brown clay and topsoil with brick.
211055	WS3	None Supplied	4.50	Grey clay and topsoil with brick.
211056	WS4	None Supplied	0.50	Brown sandy topsoil with stones and brick.
211057	WS5	None Supplied	0.50	Light brown gravelly sand with stones and brick.
211058	WS5	None Supplied	2.50	Light brown clay with brick.
211059	WS5	None Supplied	4.50	Grey clay with brick.
211060	WS6	None Supplied	0.60	Brown clay with brick and stones.
211061	WS6	None Supplied	1.80	Brown topsoil and gravel with brick and stones.
211062	WS7	None Supplied	2.00	Light brown clay with stones and brick.
211063	WS7	None Supplied	3.00	Light brown clay with brick.
211064	WS8	None Supplied	2.00	Brown gravelly sand with rubble and brick.
211065	WS8	None Supplied	4.00	Light brown sandy clay with stones and brick.
211066	WS9	None Supplied	0.50	Light brown clay with brick.
211067	WS9	None Supplied	1.50	Brown clay with brick.
211068	WS10	None Supplied	0.50	Light brown clay with brick and stones.
211069	WS10	None Supplied	3.50	Light brown clay with brick.
211070	WS11A	None Supplied	1.00	Light brown clay.
211071	WS11A	None Supplied	2.50	Light brown clay.
211072	WS11A	None Supplied	4.50	Grey clay with brick.
211073	WS12	None Supplied	2.00	Grey clay with brick.
211074	WS12	None Supplied	3.00	Brown clay with brick.
211075	WS13	None Supplied	0.60	Light brown sand.
211076	WS14	None Supplied	0.80	Light brown clay with brick.
211077	WS14	None Supplied	1.20	Light brown clay with brick.
211078	WS14	None Supplied	4.50	Light brown clay.
211079	WS15	None Supplied	1.00	Light brown clay and topsoil with brick.
211080	WS16	None Supplied	1.50	Light brown clay.
211081	WS16	None Supplied	2.50	Light brown sand with brick.
211082	WS16	None Supplied	3.50	Light brown sand with brick.
211083	WS17A	None Supplied	0.80	Light brown clay with brick.
211084	WS17A	None Supplied	1.50	Light brown clay with brick.
211085	WS17A	None Supplied	4.50	Light brown clay with brick and stones.
211086	WS18	None Supplied	1.50	Brown clay with brick and chalk.
211087	WS18	None Supplied	4.80	Grey clay and topsoil.
211088	WS19	None Supplied	1.00	Light brown sandy topsoil with chalk and stones.
211089	WS19	None Supplied	2.00	Light brown clay.
211090	WS19	None Supplied	3.00	Light brown clay and sand with brick and stones.
211091	WS20	None Supplied	0.50	Light brown clay.
211092	WS20	None Supplied	1.50	Light brown clay with brick and chalk.
211093	WS21	None Supplied	0.80	Light brown clay and topsoil with brick and chalk.

Analytical Report Number : 12-33502

Project / Site name: 103 Camley Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Asbestos identification in soil	Asbestos Identification with the use of polarised light microscopy in conjunction with disperion staining techniques.	In house method based on HSG 248	A001-UK	W	ISO 17025
Asbestos Screening in Soil	Screening of samples for Asbestos Fibres in Soil	In-house method based on HSG 248	A001-UK	W	ISO 17025
Boron in leachate	Determination of boron by acidification followed by ICP-OES.	In-house method based on MEWAM	L039-PL	W	ISO 17025
Boron, water soluble, in soil	Determination of water soluble boron in soil by hot water extract followed by ICP-OES.	In-house method based on Second Site Properties version 3	L038-PL	D	MCERTS
BTEX and MTBE in leachates	Determination of BTEX and MTBE in leachates by headspace GC-MS.	In-house method based on USEPA8260	L036-UK	W	NONE
BTEX and MTBE in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S-PL	W	MCERTS
Cr (III) in soil	In-house method by calculation from total Cr and Cr VI.	In-house method by calculation	L080-PL	D	NONE
Hexavalent chromium in soil	Determination of hexavalent chromium in soil by extraction in water then by acidification, addition of 1,5 diphenylcarbazide followed by colorimetry.	In-house method	L080-PL	D	MCERTS
Metals by ICP-OES in leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Metals in soil by ICP-OES	Determination of metals in soil by aqua-regia digestion followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L038-PL	D	MCERTS
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK	W	NONE
Monohydric phenols in leachate	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	ISO 17025
Monohydric phenols in soil	Determination of phenols in soil by extraction with sodium hydroxide followed by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	MCERTS
Organic matter in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023-PL	D	MCERTS
PCB's By GC-MS in soil		In-house method based on USEPA 8082	L027-PL		NONE

Analytical Report Number : 12-33502

Project / Site name: 103 Camley Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
pH in leachate	Determination of pH in leachate by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	ISO 17025
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Speciated EPA-16 PAHs in leachate	Determination of PAH compounds in leachate by extraction in hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L070-UK	W	NONE
Speciated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064-PL	D	NONE
Stones content of soil	Stones not passing through a 2 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK	D	NONE
Sulphate in leachates	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on MEWAM 2006 Methods for the Determination of Metals in Soil.	L039-PL	W	ISO 17025
Total cyanide in leachate	Determination of total cyanide by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (Skalar)	L080-PL	W	ISO 17025
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
TPHCWG (Leachates)	Determination of dichloromethane extractable hydrocarbons in leachate by GC-MS, speciation by interpretation.	In-house method	L070-UK	W	NONE
TPHCWG (Soil)	Determination of pentane extractable hydrocarbons in soil by GC-MS/GC-FID.	In-house method	L076-PL	W	MCERTS

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

**Charlene Knox**

Card Geotechnics Ltd
4 Godalming Business Centre
Woolsack Way
Godalming
Surrey
GU7 1XW

i2 Analytical Ltd.
Building 19,
BRE,
Garston,
Watford,
WD25 9XX

t: 01483 310600
f: 01483 527285
e: charlenek@cardgeotechnics.co.uk

t: 01923 67 00 20
f: 01923 67 00 30
e: reception@i2analytical.com

Analytical Report Number : 12-33503

Project / Site name: 103 Camley Street

Samples received on: 05/04/2012

Your job number: CG/5521C

Samples instructed on: 13/04/2012

Your order number:

Analysis completed by: 24/04/2012

Report Issue Number: 1

Report issued on: 25/04/2012

Samples Analysed: 12 wac multi samples

Signed:

Anna Romanska
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed:

Thurstan Plummer
Organics Technical Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211102				Landfill Waste Acceptance Criteria		
Sampling Date	02/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS1						
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	6.5				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.1				--	>6	--
Acid Neutralisation Capacity (mol / kg)	3.3				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.11	0.089		0.92	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0027	< 0.0010		0.010	0.5	10	70
Copper	0.0068	< 0.0030		0.027	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.022	0.021		0.21	0.5	10	30
Nickel	0.0023	< 0.0010		0.0079	0.4	10	40
Lead	< 0.0050	< 0.0050		0.034	0.5	10	50
Antimony	< 0.0050	< 0.0050		0.023	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0077	0.0013		< 0.020	4	50	200
Chloride	5.3	< 4.0		< 15	800	4000	25000
Fluoride	1.4	1.3		13	10	150	500
Sulphate	700	130		1800	1000	20000	50000
TDS	700	200		2500	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	6.7	5.1		52	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.8						
Dry Matter (%)	78						
Moisture (%)	22						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.16						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and i2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria Analytical Results							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211103				Landfill Waste Acceptance Criteria		
Sampling Date	02/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS2B						
Depth (m)	1.50						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	4.6				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	32				500	--	--
Total PAH (WAC-17) (mg/kg)	13				100	--	--
pH (units)**	7.8				--	>6	--
Acid Neutralisation Capacity (mol / kg)	10				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l mg/l			mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.11	0.077		0.80	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0054	0.0026		0.030	0.5	10	70
Copper	0.0080	< 0.0030		0.032	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.017	0.012		0.13	0.5	10	30
Nickel	0.0014	< 0.0010		0.0099	0.4	10	40
Lead	< 0.0050	< 0.0050		0.026	0.5	10	50
Antimony	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium	0.021	< 0.010		0.041	0.1	0.5	7
Zinc	0.0082	0.0012		0.020	4	50	200
Chloride	8.0	< 4.0		20	800	4000	25000
Fluoride	0.94	0.91		9.2	10	150	500
Sulphate	820	190		2600	1000	20000	50000
TDS	820	250		3200	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	7.0	4.6		49	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	89						
Moisture (%)	11						
Stage 1							
Volume Eluate L2 (litres)	0.33						
Filtered Eluate VE1 (litres)	0.20						

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Based on the results of the analysis, the results are representative of the samples submitted for analysis.

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211104				Landfill Waste Acceptance Criteria		
Sampling Date	02/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS5						
Depth (m)	2.50						
Solid Waste Analysis							
TOC (%)**	2.1				3%	5%	6%
Loss on Ignition (%) **	7.6				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mol / kg)	7.7				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l			mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.082	0.069		0.70	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0013	< 0.0010		0.0080	0.5	10	70
Copper	0.0038	0.0034		0.035	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.028	0.013		0.14	0.5	10	30
Nickel	0.0028	0.0028		0.028	0.4	10	40
Lead	< 0.0050	< 0.0050		< 0.020	0.5	10	50
Antimony	< 0.0050	< 0.0050		0.036	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0056	0.0022		0.025	4	50	200
Chloride	30	5.3		74	800	4000	25000
Fluoride	1.3	1.2		12	10	150	500
Sulphate	260	69		860	1000	20000	50000
TDS	390	140		1600	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	21	11		120	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	79						
Moisture (%)	21						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.15						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211105				Landfill Waste Acceptance Criteria		
Sampling Date	03/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS6						
Depth (m)	0.60						
Solid Waste Analysis							
TOC (%)**	1.7				3%	5%	6%
Loss on Ignition (%) **	7.6				--	--	10%
BTEX (µg/kg) **	180				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	18				100	--	--
pH (units)**	8.2				--	>6	--
Acid Neutralisation Capacity (mol / kg)	21				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.10	0.069		0.72	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0019	0.0010		0.011	0.5	10	70
Copper	0.018	0.012		0.12	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.11	0.030		0.38	0.5	10	30
Nickel	0.011	0.0050		0.056	0.4	10	40
Lead	0.011	0.0086		0.088	0.5	10	50
Antimony	0.012	0.011		0.11	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0076	0.0050		0.053	4	50	200
Chloride	16	< 4.0		31	800	4000	25000
Fluoride	0.67	0.50		5.1	10	150	500
Sulphate	180	87		970	1000	20000	50000
TDS	300	190		2000	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	41	15		180	500	800	1000
Leach Test Information							
Stone Content (%)	33						
Sample Mass (kg)	1.1						
Dry Matter (%)	82						
Moisture (%)	18						
Stage 1							
Volume Eluate L2 (litres)	0.32						
Filtered Eluate VE1 (litres)	0.19						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211106				Landfill Waste Acceptance Criteria		
Sampling Date	03/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS7						
Depth (m)	3.00						
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	7.5				--	--	10%
BTEX (µg/kg) **	13				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	39				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	19				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.077	0.057		0.59	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0026	< 0.0010		0.0090	0.5	10	70
Copper	0.012	0.0049		0.056	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.065	0.021		0.25	0.5	10	30
Nickel	0.0033	0.0031		0.031	0.4	10	40
Lead	0.013	0.0051		0.060	0.5	10	50
Antimony	0.0081	0.0056		0.059	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0059	0.0032		0.035	4	50	200
Chloride	15	< 4.0		40	800	4000	25000
Fluoride	0.64	0.59		6.0	10	150	500
Sulphate	230	50		700	1000	20000	50000
TDS	330	110		1300	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	11	7.0		74	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.5						
Dry Matter (%)	75						
Moisture (%)	25						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.19						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211107				Landfill Waste Acceptance Criteria		
Sampling Date	03/04/2012				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID	WS8						
Depth (m)	2.00						
Solid Waste Analysis							
TOC (%)**	1.0				3%	5%	6%
Loss on Ignition (%) **	6.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	430				500	--	--
Total PAH (WAC-17) (mg/kg)	64				100	--	--
pH (units)**	9.4				--	>6	--
Acid Neutralisation Capacity (mol / kg)	34				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l		mg/l	mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		0.052	0.5	2	25
Barium	0.082	0.067		0.70	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.013	0.0058		0.069	0.5	10	70
Copper	0.077	0.059		0.62	2	50	100
Mercury	< 0.0015	< 0.0015		0.012	0.01	0.2	2
Molybdenum	0.036	0.0083		0.12	0.5	10	30
Nickel	0.016	0.0050		0.066	0.4	10	40
Lead	0.0060	< 0.0050		0.041	0.5	10	50
Antimony	0.075	0.045		0.49	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0051	< 0.0010		< 0.020	4	50	200
Chloride	15	< 4.0		41	800	4000	25000
Fluoride	0.31	0.22		2.4	10	150	500
Sulphate	1500	1300		14000	1000	20000	50000
TDS	1200	1100		11000	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	16	9.3		100	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.3						
Dry Matter (%)	88						
Moisture (%)	12						
Stage 1							
Volume Eluate L2 (litres)	0.33						
Filtered Eluate VE1 (litres)	0.26						
Results are expressed on a dry weight basis, after correction for moisture content where applicable Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Stated limits are for guidance only and I2 cannot be held responsible for any discrepancies with current legislation

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211108				Landfill Waste Acceptance Criteria		
Sampling Date	04/04/2012				Limits		
Sample ID	WS12				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	3.00						
Solid Waste Analysis							
TOC (%)**	1.1				3%	5%	6%
Loss on Ignition (%) **	8.8				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	21				100	--	--
pH (units)**	8.1				--	>6	--
Acid Neutralisation Capacity (mol / kg)	5.4				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		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/l		mg/kg			
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.14	0.11		1.1	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0015	< 0.0010		0.0087	0.5	10	70
Copper	0.0057	0.0047		0.048	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.060	0.021		0.24	0.5	10	30
Nickel	0.0057	0.0046		0.047	0.4	10	40
Lead	0.0054	0.0050		0.051	0.5	10	50
Antimony	< 0.0050	< 0.0050		0.041	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0029	0.0015		< 0.020	4	50	200
Chloride	33	5.4		73	800	4000	25000
Fluoride	1.9	1.3		13	10	150	500
Sulphate	150	53		600	1000	20000	50000
TDS	310	160		1700	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	6.0	13		120	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.3						
Dry Matter (%)	76						
Moisture (%)	24						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.12						

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Based on the results of the analysis, the results are representative of the samples submitted for analysis.

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211109				Landfill Waste Acceptance Criteria		
Sampling Date	04/04/2012				Limits		
Sample ID	WS13				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.60						
Solid Waste Analysis							
TOC (%)**	0.3				3%	5%	6%
Loss on Ignition (%) **	0.9				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.2				--	>6	--
Acid Neutralisation Capacity (mol / kg)	2.1				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.038	0.026		0.27	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0032	0.0025		0.026	0.5	10	70
Copper	0.012	0.011		0.11	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.015	0.0047		0.061	0.5	10	30
Nickel	0.0023	0.0012		0.014	0.4	10	40
Lead	0.010	0.0056		0.062	0.5	10	50
Antimony	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.025	0.0158		0.17	4	50	200
Chloride	< 4.0	< 4.0		< 15	800	4000	25000
Fluoride	1.6	0.49		6.4	10	150	500
Sulphate	14	2.1		38	1000	20000	50000
TDS	40	20		230	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	4.9	3.8		39	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.4						
Dry Matter (%)	93						
Moisture (%)	6.6						
Stage 1							
Volume Eluate L2 (litres)	0.34						
Filtered Eluate VE1 (litres)	0.24						
Results are expressed on a dry weight basis, after correction for moisture content where applicable							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
(Based directly on the method used and it cannot be held responsible for any discrepancies with current legislation)

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211110				Landfill Waste Acceptance Criteria		
Sampling Date	04/04/2012				Limits		
Sample ID	WS14				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	4.50						
Solid Waste Analysis							
TOC (%)**	0.5				3%	5%	6%
Loss on Ignition (%) **	9.5				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mol / kg)	1.2				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.068	0.052		0.53	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0017	0.0011		0.012	0.5	10	70
Copper	0.0084	0.0035		0.038	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.0040	0.0035		0.035	0.5	10	30
Nickel	0.0036	0.0030		0.030	0.4	10	40
Lead	< 0.0050	< 0.0050		0.025	0.5	10	50
Antimony	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0098	0.0032		0.036	4	50	200
Chloride	30	6.0		72	800	4000	25000
Fluoride	1.4	1.3		14	10	150	500
Sulphate	100	35		380	1000	20000	50000
TDS	240	100		1100	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	22	11		110	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.1						
Dry Matter (%)	78						
Moisture (%)	22						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.090						
Results are expressed on a dry weight basis, after correction for moisture content where applicable							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
(Based directly on the method used and it cannot be held responsible for any discrepancies with current legislation)

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211111				Landfill Waste Acceptance Criteria		
Sampling Date	05/04/2012				Limits		
Sample ID	WS18				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	1.50						
Solid Waste Analysis							
TOC (%)**	0.9				3%	5%	6%
Loss on Ignition (%) **	7.2				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	8.0				--	>6	--
Acid Neutralisation Capacity (mol / kg)	9.5				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.032	0.028		0.28	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0038	0.0015		0.017	0.5	10	70
Copper	0.0099	0.0073		0.075	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.083	0.043		0.46	0.5	10	30
Nickel	0.0027	0.0026		0.026	0.4	10	40
Lead	0.013	< 0.0050		0.039	0.5	10	50
Antimony	< 0.0050	< 0.0050		< 0.020	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0054	0.0020		0.023	4	50	200
Chloride	6.8	< 4.0		27	800	4000	25000
Fluoride	1.5	1.2		12	10	150	500
Sulphate	23	6.6		79	1000	20000	50000
TDS	150	80		860	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	5.4	5.3		54	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.3						
Dry Matter (%)	76						
Moisture (%)	24						
Stage 1							
Volume Eluate L2 (litres)	0.31						
Filtered Eluate VE1 (litres)	0.14						
Results are expressed on a dry weight basis, after correction for moisture content where applicable							

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Based on the results of the analysis, the results are representative of the samples submitted for analysis.

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211112				Landfill Waste Acceptance Criteria		
Sampling Date	05/04/2012				Limits		
Sample ID	WS19				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	2.00						
Solid Waste Analysis							
TOC (%)**	0.6				3%	5%	6%
Loss on Ignition (%) **	5.2				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	< 1.6				100	--	--
pH (units)**	7.9				--	>6	--
Acid Neutralisation Capacity (mol / kg)	3.4				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.075	0.063		0.63	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0015	< 0.0010		0.0094	0.5	10	70
Copper	0.0057	< 0.0030		0.021	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.036	0.019		0.20	0.5	10	30
Nickel	0.0015	< 0.0010		0.010	0.4	10	40
Lead	< 0.0050	< 0.0050		0.024	0.5	10	50
Antimony	< 0.0050	< 0.0050		0.023	0.06	0.7	5
Selenium	< 0.010	< 0.010		0.044	0.1	0.5	7
Zinc	0.0036	0.0016		< 0.020	4	50	200
Chloride	12	< 4.0		29	800	4000	25000
Fluoride	2.3	2.1		21	10	150	500
Sulphate	280	62		730	1000	20000	50000
TDS	400	140		1500	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	9.0	6.4		65	500	800	1000
Leach Test Information							
Stone Content (%)	< 0.1						
Sample Mass (kg)	1.0						
Dry Matter (%)	86						
Moisture (%)	14						
Stage 1							
Volume Eluate L2 (litres)	0.32						
Filtered Eluate VE1 (litres)	0.090						
Results are expressed on a dry weight basis, after correction for moisture content where applicable							

Results are expressed on a dry weight basis, after correction for moisture content where applicable
(Based directly on the method used and it cannot be held responsible for any discrepancies with current legislation)

* = UKAS accredited

** = MCERTS accredited

i2 Analytical

Building 19
BRE, Bucknalls Lane
Watford, WD25 9XX

Telephone: 01923 670020

Fax: 01923 670030

email: info@i2analytical.com

Waste Acceptance Criteria ANALYTICAL RESULTS							
Report No:	12-33503						
					Client: CARDGEO		
Location	103 Camley Street						
Lab Reference (Sample Number)	211113				Landfill Waste Acceptance Criteria		
Sampling Date	05/04/2012				Limits		
Sample ID	WS20				Inert Waste Landfill	Stable Non-reactive HAZARDOUS waste in non-hazardous Landfill	Hazardous Waste Landfill
Depth (m)	0.50						
Solid Waste Analysis							
TOC (%)**	0.7				3%	5%	6%
Loss on Ignition (%) **	3.3				--	--	10%
BTEX (µg/kg) **	< 10				6000	--	--
Sum of PCBs (mg/kg)	< 0.30				1	--	--
Mineral Oil (mg/kg)	< 10				500	--	--
Total PAH (WAC-17) (mg/kg)	290				100	--	--
pH (units)**	7.7				--	>6	--
Acid Neutralisation Capacity (mol / kg)	12				--	To be evaluated	To be evaluated
Eluate Analysis	2:1	8:1		Cumulative 10:1	Limit values for compliance leaching test		
	mg/l	mg/l		mg/kg	using BS EN 12457-3 at L/S 10 l/kg (mg/kg)		
Arsenic	< 0.010	< 0.010		< 0.050	0.5	2	25
Barium	0.096	0.035		0.42	20	100	300
Cadmium	< 0.0005	< 0.0005		< 0.0020	0.04	1	5
Chromium	0.0024	0.0020		0.021	0.5	10	70
Copper	0.0044	0.0034		0.035	2	50	100
Mercury	< 0.0015	< 0.0015		< 0.010	0.01	0.2	2
Molybdenum	0.024	0.0086		0.10	0.5	10	30
Nickel	0.0011	< 0.0010		0.0092	0.4	10	40
Lead	< 0.0050	< 0.0050		0.022	0.5	10	50
Antimony	0.0053	< 0.0050		0.045	0.06	0.7	5
Selenium	< 0.010	< 0.010		< 0.040	0.1	0.5	7
Zinc	0.0042	0.0023		0.025	4	50	200
Chloride	14	< 4.0		30	800	4000	25000
Fluoride	1.5	1.1		11	10	150	500
Sulphate	660	71		1400	1000	20000	50000
TDS	700	120		1900	4000	60000	100000
Phenol Index	< 0.13	< 0.13		< 0.50	1	-	-
DOC	5.6	4.8		49	500	800	1000
Leach Test Information							
Stone Content (%)	32						
Sample Mass (kg)	0.98						
Dry Matter (%)	91						
Moisture (%)	9.0						
Stage 1							
Volume Eluate L2 (litres)	0.33						
Filtered Eluate VE1 (litres)	0.20						

Results are expressed on a dry weight basis, after correction for moisture content where applicable

Results are expressed on a dry weight basis, after correction for moisture content where applicable
Obtain results on a dry weight basis and 12 cannot be held responsible for any discrepancies with current legislation.

* = UKAS accredited

** = MCERTS accredited

Analytical Report Number : 12-33503

Project / Site name: 103 Camley Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content

of a sample is calculated as the % weight of the stones not passing a 2 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
211102	WS1	None Supplied	0.50	Light brown clay with brick.
211103	WS2B	None Supplied	1.50	Light brown clay and topsoil with brick and chalk.
211104	WS5	None Supplied	2.50	Light brown clay with brick.
211105	WS6	None Supplied	0.60	Brown clay with brick and stones.
211106	WS7	None Supplied	3.00	Light brown clay with brick.
211107	WS8	None Supplied	2.00	Brown gravelly sand with rubble and brick.
211108	WS12	None Supplied	3.00	Brown clay with brick.
211109	WS13	None Supplied	0.60	Light brown sand.
211110	WS14	None Supplied	4.50	Light brown clay.
211111	WS18	None Supplied	1.50	Brown clay with brick and chalk.
211112	WS19	None Supplied	2.00	Light brown clay.
211113	WS20	None Supplied	0.50	Light brown clay and sand with brick and stones.



Analytical Report Number : 12-33503

Project / Site name: 103 Camley Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Acid neutralisation capacity of soil	Determination of acid neutralisation capacity by addition of acid or alkali followed by electronic probe.	In-house method based on Guidance on Sampling and Testing of Wastes to Meet Landfill Waste Acceptance	L046	W	NONE
BTEX in soil	Determination of BTEX in soil by headspace GC-MS.	In-house method based on USEPA8260	L073S	W	MCERTS
Chloride in WAC leachate	Determination of chloride in leachate by titration against silver nitrate.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L024	W	NONE
Fluoride in WAC leachate	Determination of fluoride in leachate by 1:1ratio with a buffer solution followed by Ion Selective Electrode.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L033	W	NONE
Loss on ignition of soil @ 450oC	Determination of loss on ignition in soil by gravimetrically with the sample being ignited in a muffle furnace.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L047-PL	D	MCERTS
Metals in WAC leachate	Determination of metals in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039	W	ISO 17025
Mineral Oil in Soil	Determination of dichloromethane/hexane extractable hydrocarbons in soil by GC-MS.	In-house method based on USEPA 8270	L064	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK	W	NONE
Monohydric phenols in WAC leachate	Determination of phenols in leachate by distillation followed by colorimetry.	In-house method based on Examination of Water and Wastewater 20th Edition: Clesceri, Greenberg & Eaton (skalar)	L080-PL	W	NONE
PCB's by GC-MS in soil	Determination of PCB by extraction with DCM and analysis by GC-MS.	In-house method based on USEPA 8270	L064	D	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-UK	W	MCERTS
Sociated WAC-17 PAHs in soil	Determination of PAH compounds in soil by extraction in dichloromethane and hexane followed by GC-MS with the use of surrogate and internal standards.	In-house method based on USEPA 8270	L064	D	NONE
Stones content of soil	Stones not passing through a 2 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK	D	NONE
Sulphate in WAC leachate	Determination of sulphate in leachate by acidification followed by ICP-OES.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L039	W	NONE
Total dissolved solids in WAC leachate	Determination of total dissolved solids in leachate by electrometric measurement.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L004	W	NONE



Analytical Report Number : 12-33503

Project / Site name: 103 Camley Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Total organic carbon in soil	Determination of organic matter in soil by oxidising with potassium dichromate followed by titration with iron (II) sulphate.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L023	D	MCERTS
Total organic carbon in WAC leachate	Determination of total organic carbon in leachate by the measurement on a non-dispersive infrared analyser of carbon dioxide released by acidification.	In-house method based on Standard Methods for the Examination of Water and Waste Water, 21st Ed.	L037	W	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30oC.

**Charlene Knox**

Card Geotechnics Ltd
4 Godalming Business Centre
Woolsack Way
Godalming
Surrey
GU7 1XW

i2 Analytical Ltd.
Building 19,
BRE,
Garston,
Watford,
WD25 9XX

t: 01483 310600
f: 01483 527285
e: charlenek@cardgeotechnics.co.uk

t: 01923 67 00 20
f: 01923 67 00 30
e: reception@i2analytical.com

Analytical Report Number : 12-33749

Project / Site name: Camley Street

Samples received on: 27/04/2012

Your job number: CG/5521C

Samples instructed on: 27/04/2012

Your order number:

Analysis completed by: 09/05/2012

Report Issue Number: 1

Report issued on: 10/05/2012

Samples Analysed: 10 soil samples

Signed: 

Dr Claire Stone
Quality Manager
For & on behalf of i2 Analytical Ltd.

Signed: 

Anna Romanska
Quality Manager
For & on behalf of i2 Analytical Ltd.

Other office located at: ul. Pionierów 39, 41 -711 Ruda Śląska, Poland

Standard sample disposal times, unless otherwise agreed with the laboratory, are :

soils - 4 weeks from reporting
leachates - 2 weeks from reporting
waters - 2 weeks from reporting

Excel copies of reports are only valid when accompanied by this PDF certificate.

Analytical Report Number: 12-33749

Project / Site name: Camley Street

Lab Sample Number				212539	212540	212541	212542	212543
Sample Reference				BH1	BH2	BH2	BH2	BH3
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				1.20-1.65	2.00-2.45	7.45-7.50	18.00-18.45	3.00-3.45
Date Sampled				19/04/2012	18/04/2012	18/04/2012	18/04/2012	16/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	14	18	18	20
Total mass of sample received	kg	0.001	NONE	2.0	2.0	1.0	2.0	2.0

General Inorganics

pH	pH Units	N/A	MCERTS	7.9	8.9	7.9	7.4	10.3
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	N/A	N/A	79000	1300	N/A
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	6.5	6.6	9.1	1.3	0.41
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	6500	6600	9100	1300	410
Total Sulphur	mg/kg	100	NONE	N/A	N/A	25000	5500	N/A

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	220	28	N/A	N/A	N/A
---------------------------	-------	---	------	-----	----	-----	-----	-----

Analytical Report Number: 12-33749

Project / Site name: Camley Street

Lab Sample Number				212544	212545	212546	212547	212548
Sample Reference				BH3	BH1	BH4	WS19	WS14
Sample Number				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Depth (m)				12.00-12.45	8.45-8.50	13.95-14.00	4.00	4.50
Date Sampled				16/04/2012	19/04/2012	17/04/2012	05/04/2012	04/04/2012
Time Taken				None Supplied	None Supplied	None Supplied	None Supplied	None Supplied
Analytical Parameter (Soil Analysis)	Units	Limit of detection	Accreditation Status					
Stone Content	%	0.1	NONE	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Moisture Content	%	N/A	NONE	17	19	18	19	0.00
Total mass of sample received	kg	0.001	NONE	2.0	1.2	1.2	0.91	0.49

General Inorganics

	pH Units	N/A	MCERTS	7.3	7.2	8.1	7.2	8.1
Total Sulphate as SO ₄	mg/kg	100	ISO 17025	15000	8100	1400	N/A	N/A
Water Soluble Sulphate as SO ₄ (2:1)	g/l	0.0025	MCERTS	5.0	8.0	1.3	2.3	1.4
Water Soluble Sulphate as SO ₄ (2:1)	mg/kg	2.5	MCERTS	5000	8000	1300	2300	1400
Total Sulphur	mg/kg	100	NONE	5400	2700	3100	N/A	N/A

Heavy Metals / Metalloids

Magnesium (water soluble)	mg/kg	5	NONE	N/A	N/A	N/A	N/A	N/A
---------------------------	-------	---	------	-----	-----	-----	-----	-----

Analytical Report Number : 12-33749

Project / Site name: Camley Street

* These descriptions are only intended to act as a cross check if sample identities are questioned. The major constituent of the sample is intended to act with respect to MCERTS validation. The laboratory is accredited for sand, clay and topsoil/loam soil types. Data for unaccredited types of solid should be interpreted with care.

Stone content

of a sample is calculated as the % weight of the stones not passing a 2 mm sieve. Results are not corrected for stone content.

Lab Sample Number	Sample Reference	Sample Number	Depth (m)	Sample Description *
212539	BH1	None Supplied	1.20-1.65	Light brown clay and sand.
212540	BH2	None Supplied	2.00-2.45	Light brown clay and sand.
212541	BH2	None Supplied	7.45-7.50	Light brown clay and sand.
212542	BH2	None Supplied	18.00-18.45	Grey clay.
212543	BH3	None Supplied	3.00-3.45	Grey clay and topsoil.
212544	BH3	None Supplied	12.00-12.45	Light grey clay.
212545	BH1	None Supplied	8.45-8.50	Light brown clay.
212546	BH4	None Supplied	13.95-14.00	Grey clay.
212547	WS19	None Supplied	4.00	Brown clay and topsoil.
212548	WS14	None Supplied	4.50	Brown clay and topsoil.

Analytical Report Number : 12-33749

Project / Site name: Camley Street

Water matrix abbreviations: Surface Water (SW) Potable Water (PW) Ground Water (GW)

Analytical Test Name	Analytical Method Description	Analytical Method Reference	Method number	Wet / Dry Analysis	Accreditation Status
Magnesium, water soluble, in soil	Determination of water soluble magnesium by extraction with water followed by ICP-OES.	In-house method based on TRL 447	L038-UK	D	NONE
Moisture Content	Moisture content, determined gravimetrically.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L019-UK	W	NONE
pH in soil	Determination of pH in soil by addition of water followed by electrometric measurement.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L005-PL	W	MCERTS
Stones content of soil	Stones not passing through a 2 mm sieve is determined gravimetrically and reported as a percentage of the dry weight. Sample results are not corrected for the stone content of the sample.	In-house method based on British Standard Methods and MCERTS requirements.	L019-UK	D	NONE
Sulphate, water soluble, in soil	Determination of water soluble sulphate by extraction with water followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	MCERTS
Total sulphate (as SO ₄ in soil)	Determination of total sulphate in soil by extraction with 10% HCl followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, Chemical and Electrochemical Tests	L038-PL	D	ISO 17025
Total Sulphur in soil	Determination of total sulphur in soil by extraction with aqua-regia, potassium bromide/bromate followed by ICP-OES.	In-house method based on BS1377 Part 3, 1990, and MEWAM 2006 Methods for the Determination of Metals in Soil	L038-PL	D	NONE

For method numbers ending in 'UK' analysis have been carried out in our laboratory in the United Kingdom.

For method numbers ending in 'PL' analysis have been carried out in our laboratory in Poland.

Soil analytical results are expressed on a dry weight basis. Where analysis is carried out on as-received the results obtained are multiplied by a moisture correction factor that is determined gravimetrically using the moisture content which is carried out at a maximum of 30°C.

APPENDIX G

Monitoring records

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	103 Camley Street, London	Job No:	CG/5521C
Date:	26.04.12	Engineer:	CK
Time:	09.00-11.00, returning 15.00-16.00	Client:	Urbanest UK Limited

METEOROLOGICAL & SITE INFORMATION											
State of ground:	☐	Dry	☐	Moist	☒	Wet	☐		☐		
Wind:	☐	Calm	☐	Light	☒	Moderate	☐		☐	Strong	
Cloud cover:	☐	None	☐	Slight	☐	Cloudy	☒		☒	Overcast	
Precipitation:	☐	None	☐	Slight	☒	Moderate	to	☒		Heavy	
Barometric pressure (mb):	990-991				Air temperature (oC):				12		

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	H ₂ S (ppm)	PID (ppm)	Depth to GW (mbgl)	Free product (mm)	Comments
BH 1	0	-0.8	-2.7	20.3	0.0	0.0	NR	NR	5.09	NONE	BH depth = 6.00m
	15	0.1	0.0	20.8	0.0	0.0					Very windy
	30	0.0	0.0	20.8	0.0	0.0					
	45	0.0	0.1	20.8	0.0	0.0					
	60	-0.4	1.0	20.8	0.0	0.0					
	90	0.5	1.8	20.8	0.0	0.0					
	120	-0.1	2.8	20.8	0.0	0.0					
	150	0.8	3.1	20.8	0.0	0.0					
BH2	0	0.1	0.2	19.9	0.0	0.0	NR	NR	4.24	NONE	BH depth = 6.00m
	15	0.1	0.2	19.8	0.0	0.0					
	30	0.0	0.0	19.7	0.1	0.0					
	45	0.0	0.0	19.7	0.2	0.0					
	60	0.0	-0.1	19.7	0.3	0.0					
	90	0.0	0.0	19.7	0.3	0.0					
	120	0.0	0.0	19.7	0.0	0.0					
	150	0.0	0.0	19.7	0.3	0.0					
BH3 (Dual)	0	-0.1	0.0	20.7	0.0	0.0	NR	NR	DRY	NONE	Shallow BH depth = 1.00m
	15	0.0	0.0	21.0	0.0	0.0			NA	NONE	Deep BH depth = NA
	30	0.0	0.0	21.0	0.0	0.0					
	45	0.0	0.0	21.0	0.0	0.0					Blockage in shallow standpipe at 1mbgl and at 0.15m in deep standpipe. No gas tap in deep pipe, gas data relates to shallow install but might be spurious given blockage.
	60	0.0	0.0	21.0	0.0	0.0					
	90	0.0	0.0	21.0	0.0	0.0					
	120	0.0	0.0	21.0	0.0	0.0					
	150	0.0	0.1	21.0	0.0	0.0					
BH4 (Dual)	0	0.1	0.6	20.4	0.5	0.0	NR	NR	4.28	NONE	Shallow BH depth = 6.00m
	15	-0.1	-0.3	20.1	0.0	0.0			5.90	NONE	Deep BH depth = 16.78
	30	0.0	-0.3	19.7	0.4	0.0					
	45	0.0	0.0	19.6	0.5	0.0					
	60	0.0	0.0	19.6	0.5	0.0					Possible block in deep borehole.
	90	0.0	0.0	19.5	0.5	0.0					
	120	0.0	0.0	19.5	0.5	0.0					
	150	0.0	0.0	19.5	0.5	0.0					
	180	0.0	0.0	19.5	0.5	0.0					

Notes:
NR = Not recorded

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	103 Camley Street, London	Job No:	CG/5521C
Date:	02.05.12	Engineer:	CK
Time:	09.00-11.00, returning 14.00 - 16.30	Client	Urbanest UK Limited

METEOROLOGICAL & SITE INFORMATION									
State of ground:	☐	Dry	☐	Moist	☒	Wet			
Wind:	☐	Calm	☐	Light	☒	Moderate	☐	Strong	
Cloud cover:	☐	None	☐	Slight		Cloudy	☒	Overcast	
Precipitation:	☐	None	☐	Slight	☒	Moderate	to	☒	Heavy
Barometric pressure (mb):	1019-1018			Air temperature (oC):			10		

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	H ₂ S (ppm)	PID (ppm)	Depth to GW (mbgl)	Free product (mm)	Comments
BH 1	0	-0.1	-0.2	20.4	0.0	0.0	NR	NR	4.98	NONE	BH depth = 6.00m
	15	0.0	-0.1	20.7	0.0	0.0					
	30	0.0	0.0	20.8	0.0	0.0					
	45	0.0	0.0	20.8	0.0	0.0					
	60	0.0	-0.1	20.8	0.0	0.0					
	90	0.0	-0.1	20.8	0.0	0.0					
	120	0.0	0.0	20.8	0.0	0.0					
	150	0.0	0.0	20.8	0.0	0.0					
	180	0.0	0.1	20.8	0.0	0.0					
BH2	0	0.0	0.0	19.1	0.0	0.0	NR	NR	3.28	NONE	BH depth = 6.00m
	15	0.1	0.4	20.4	0.1	0.0					
	30	0.0	0.2	20.7	0.1	0.0					Lots of standing water had gone down the standpipe during period of heavy rainfall on previous visit.
	45	0.0	0.2	20.8	0.1	0.0					
	60	0.0	0.2	20.8	0.1	0.0					
	90	0.0	0.2	20.8	0.1	0.0					
	120	0.0	0.2	20.8	0.1	0.0					
	150	0.0	0.2	20.8	0.1	0.0					
	180	0.0	0.2	20.8	0.1	0.0					
BH3 (Dual)	0	0.0	0.2	19.0	0.0	0.0	NR	NR	4.82	NONE	Shallow BH depth = 5.00m
	15	0.0	0.2	20.1	0.1	0.0			9.82	NONE	Deep BH depth = 27.05m
	30	0.0	0.0	20.1	0.1	0.0					
	45	0.0	-0.1	20.1	0.1	0.0					Boreholes repaired during monitoring visit.
	60	0.0	0.0	20.0	0.1	0.0					
	90	0.0	0.1	19.9	0.1	0.0					No gas tap in deep installation - gas data relates to MG only.
	120	0.0	0.1	19.8	0.1	0.0					
	150	0.0	0.0	19.8	0.1	0.0					
	180	0.0	0.0	19.4	0.1	0.0					
BH4 (Dual)	0	0.0	0.0	20.4	0.0	0.0	NR	NR	4.32	NONE	Shallow BH depth = 6.00m
	15	0.1	0.3	20.1	0.1	0.0			5.43	NONE	Deep BH depth = 29.00m
	30	0.1	0.4	20.1	0.3	0.0					
	45	0.1	0.4	20.0	0.3	0.0					Deep borehole repaired during monitoring visit.
	60	0.1	0.3	20.0	0.3	0.0					
	90	0.0	0.2	20.0	0.3	0.0					
	120	0.1	0.3	20.0	0.3	0.0					
	150	0.0	0.2	19.9	0.4	0.0					
	180	0.0	0.2	19.8	0.4	0.0					

Notes:
NR = Not recorded

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	103 Camley Street, London	Job No:	CG/5521C
Date:	10.05.12	Engineer:	CK
Time:	09.00	Client:	Urbanest UK Limited

METEOROLOGICAL & SITE INFORMATION											
State of ground:	☐	Dry	☐	Moist	☒	Wet					
Wind:	☐	Calm	☐	Light	☒	Moderate	to	☒	Strong		
Cloud cover:	☐	None	☐	Slight	☐	Cloudy		☒	Overcast		
Precipitation:	☒	None	☐	Slight	☐	Moderate		☐	Heavy		
Barometric pressure (mb):	1005-1007			Air temperature (oC):				17			

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	H ₂ S (ppm)	PID (ppm)	Depth to GW (mbgl)	Free product (mm)	Comments
BH 1	0	-0.3	-0.4	20.6	0.0	0.0	NR	NR	5.11	NONE	BH depth = 6.00m
	15	0.1	0.3	20.8	0.0	0.0					
	30	0.0	-0.2	20.8	0.0	0.0					
	45	-0.2	-0.7	20.8	0.0	0.0					
	60	-0.7	-2.4	20.8	0.0	0.0					
	90	-0.7	-2.4	20.8	0.0	0.0					
	120	-0.5	-1.2	20.8	0.0	0.0					
	150	-0.3	-1.0	20.8	0.0	0.0					
	180	-0.3	-1.0	20.8	0.0	0.0					
BH2	0	0.9	3.2	20.4	0.0	0.0	NR	NR	3.28	NONE	BH depth = 6.00m
	15	0.3	0.9	20.7	0.0	0.0					
	30	1.8	2.4	20.6	0.0	0.0					
	45	0.2	0.9	20.6	0.0	0.0					
	60	1.3	2.4	20.6	0.0	0.0					
	90	0.4	1.0	20.6	0.0	0.0					
	120	0.8	2.8	20.6	0.0	0.0					
	150	0.4	1.3	20.6	0.0	0.0					
	180	0.0	0.0	20.6	0.0	0.0					
BH3 (Dual)	0	-0.3	-1.1	20.4	0.0	0.0	NR	NR	4.74	NONE	Shallow BH depth = 5.00m
	15	-0.4	-1.5	20.8	0.0	0.0			6.83	NONE	Deep BH depth = 27.05m
	30	-0.4	-1.5	21.0	0.0	0.0					
	45	-0.5	-1.8	21.0	0.0	0.0					
	60	-0.5	-2.1	21.0	0.0	0.0					
	90	-0.8	-2.7	21.0	0.0	0.0					
	120	-0.8	-2.7	21.0	0.0	0.0					
	150	-0.1	-0.5	21.0	0.0	0.0					
	180	-0.1	-0.4	21.0	0.0	0.0					No gas tap in deep installation - gas data relates to MG only.
BH4 (Dual)	0	0.2	0.9	20.4	0.0	0.0	NR	NR	4.52	NONE	Shallow BH depth = 6.00m
	15	0.1	0.6	20.7	0.0	0.0			5.62	NONE	Deep BH depth = 29.00m
	30	0.2	0.7	20.7	0.0	0.0					
	45	0.2	0.6	20.6	0.0	0.0					
	60	-0.1	-0.2	20.5	0.1	0.0					
	90	0.3	1.1	20.5	0.0	0.0					
	120	0.2	0.7	20.4	0.0	0.0					
	150	0.1	0.5	20.5	0.0	0.0					
	180	0.1	0.5	20.4	0.0	0.0					

Notes:
NR = Not recorded

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	103 Camley Street, London	Job No:	CG/5521C
Date:	17.05.12	Engineer:	CK
Time:	09.00	Client	Urbanest UK Limited

METEOROLOGICAL & SITE INFORMATION									
State of ground:	☒	Dry	☐	Moist	☐	Wet	☐		
Wind:	☒	Calm	☐	Light	☒	Moderate	☐	Strong	
Cloud cover:	☐	None	☐	Slight	☒	Cloudy	☐	Overcast	
Precipitation:	☒	None	☐	Slight	☐	Moderate	☐	Heavy	
Barometric pressure (mb):	1018-1017				Air temperature (oC):			12	

[illegible]

Notes:
NR = Not recorded

GAS MONITORING RECORD SHEET

JOB DETAILS			
Site:	103 Camley Street, London	Job No:	CG/5521C
Date:	24.05.12	Engineer:	CK
Time:	09.00	Client	Urbanest UK Limited

METEOROLOGICAL & SITE INFORMATION									
State of ground:	☒	Dry	☐	Moist	☐	Wet			
Wind:	☒	Calm	☐	Light	☐	Moderate	☐		Strong
Cloud cover:	☒	None	☐	Slight	☐	Cloudy	☐		Overcast
Precipitation:	☒	None	☐	Slight	☐	Moderate	☐		Heavy
Barometric pressure (mb):	1024-1023			Air temperature (oC):			18		

Well No.	Time (s)	Flow (l/hr)	dA (PA)	O ₂ (% vol. in air)	CO ₂ (% vol. in air)	CH ₄ (% vol. in air)	H ₂ S (ppm)	PID (ppm)	Depth to GW (mbgl)	Free product (mm)	Comments
BH 1	0	0.0	0.1	20.6	0.0	0.0	NR	0.0	5.16	NONE	BH depth = 6.00m
	15	0.1	0.3	20.6	0.1	0.0					
	30	0.0	0.2	20.4	0.2	0.0					
	45	0.0	0.2	20.0	0.4	0.0					
	60	0.0	0.1	20.0	0.4	0.0					
	90	0.0	0.1	20.0	0.4	0.0					
	120	0.0	0.1	20.0	0.4	0.0					
	150	0.0	0.1	20.0	0.4	0.0					
	180	0.0	0.1	20.0	0.4	0.0					
BH2	0	0.0	0.1	20.7	0.0	0.0	NR	0.0	3.53	NONE	BH depth = 6.00m
	15	0.0	0.0	20.7	0.1	0.0					
	30	0.0	0.0	20.7	0.1	0.0					
	45	0.0	0.0	20.7	0.1	0.0					
	60	0.0	0.0	20.7	0.1	0.0					
	90	0.0	0.0	20.7	0.1	0.0					
	120	0.0	0.1	20.7	0.1	0.0					
	150	0.0	0.2	20.7	0.1	0.0					
	180	0.0	0.1	20.7	0.1	0.0					
BH3 (Dual)	0	0.4	0.1	20.3	0.0	0.0	NR	0.0	4.92	NONE	Shallow BH depth = 5.00m
	15	0.2	0.8	20.4	0.0	0.0			6.42	NONE	Deep BH depth = 27.05m
	30	0.2	0.8	20.1	0.1	0.0					
	45	0.3	1.0	20.0	0.1	0.0					
	60	0.3	1.0	20.0	0.1	0.0					
	90	0.3	1.0	20.0	0.1	0.0					
	120	0.2	0.9	20.0	0.1	0.0					
	150	0.2	0.8	20.0	0.1	0.0					
	180	0.2	0.8	20.0	0.1	0.0					No gas tap in deep installation - gas data relates to MG only.
BH4 (Dual)	0	0.1	0.3	20.5	0.0	0.0	NR	0.0	4.68	NONE	Shallow BH depth = 6.00m
	15	0.0	0.2	20.5	0.1	0.0			5.67	NONE	Deep BH depth = 29.00m
	30	0.0	0.0	19.8	0.3	0.0					
	45	0.0	0.0	19.3	0.4	0.0					
	60	0.0	0.0	19.2	0.5	0.0					
	90	0.0	0.2	19.2	0.5	0.0					
	120	0.1	0.3	19.2	0.5	0.0					
	150	0.0	0.3	19.2	0.5	0.0					
	180	0.0	0.2	19.2	0.5	0.0					

Notes:
NR = Not recorded



Notes:
NR = Not recorded

APPENDIX H

Maximum permissible concentrations

Proposed MPCs for imported capping layer soils

Determinand		Public open spaces	Rationale
Arsenic		35	SGV ⁴
Cadmium		85	SGV ⁴
Chromium (total)		38	GAC ⁵
Lead		450	SGV ⁴
Mercury		240	SGV ⁴
Selenium		600	SGV ⁴
Copper		135 (6,700) ³	Sludge Regulations 1989 ⁶ (GAC ⁵)
Nickel		130	SGV ⁴
Zinc		300 (20,000) ³	Sludge Regulations 1989 ⁶ (GAC ⁵)
Boron		5	Limit for phytotoxic effect ⁷
Barium		300	Former GAC ¹⁴
Beryllium		26	GAC ⁵
Vanadium		210	GAC ⁵
Benzo(a)pyrene		[2.5]	(GAC ⁵)
Benzo(a)anthracene		18	GAC ⁵
Benzo(b)fluoranthene		24	
Benzo(k)fluoranthene		25	
Chrysene		230	
Dibenzo(a,h)anthracene		2.4	
Indeno(1,2,3-cd)pyrene		24	
Naphthalene		9.2	
TPH aliphatic ⁸	EC ₅₋₆	79	GAC ⁵ Comparison of TPH must also be made against the TPH waste assessment banding below to confirm the material does not classify as hazardous waste.
	EC _{>6-8}	230	
	EC _{>8-10}	59	
	EC _{>10-12}	540	
	EC _{>12-16}	1,000 ⁹	
	EC _{>16-35}	1,000 ⁹	
TPH aromatic ⁸	EC ₅₋₇	1.0	
	EC _{>7-8}	1,000 ⁹	
	EC _{>8-10}	96	
	EC _{>10-12}	480	
	EC _{>12-16}	1,000 ⁹	
	EC _{>16-21}	1,000 ⁹	
	EC _{>21-35}	1,000 ⁹	
Sum of TPH aliphatic & aromatic C ₅ -C ₁₀		< 1,000	Hazardous waste thresholds ¹⁰ (C ₁₀ + MPC based on threshold for C ₂₅ +)
Sum of TPH aliphatic & aromatic C ₁₀ +		< 1,000	
pH		5-10	
Phenols		520	SGV ⁴
Sulphate - 2:1 water/soil extract (SO ₄ mg/l)		500 ¹¹	Limit for Design Sulphate Class DS-1 ¹²
Total Cyanide		17	GAC ⁵
Asbestos		No fibres detected	-

Notes:

- These maximum permissible concentrations (MPCs) are import criteria only and are not necessarily appropriate for human health risk assessment.
- In mg/kg dry soil except sulphate and pH.
- MPCs limited by waste assessment thresholds - if failure occurs further assessment can be made— copper and zinc concentrations may individually exceed MPC, subject to the assessment of the cumulative effect of copper and zinc, but may not exceed bracketed human health GAC values.
- Soil Guideline Value for residential with plant uptake assuming 6% SOM.
- Generic Assessment Criteria generated 'in-house' based on CLEA model.
- Schedule 2, Sludge (Use in Agriculture) Regulations 1989. Values taken for pH 6-7.
- Nable, Banuelos and Paul. (1997). *Boron Toxicity*. Plant and Soil, **Vol. 193**, pp1 81-198.
- Speciated TPH values must not exceed GAC. Assessment of TPH must also be made against hazardous waste thresholds to confirm imported soils do not classify as hazardous material.
- GAC derived MPC for TPH fraction limited to 1,000mg/kg based on 'waste thresholds'.
- Environment Agency. (2007). *A Guide to Hazardous Waste Regulations: How to find out if waste oil and waste that contain oil are hazardous*. HWR08.
- If failure occurs further assessment can be made.
- 2:1 water/soil sulphate extract limit for DS-1 in accordance with BRE SD1.
- Laboratory screen by microscopy may be required subject to source of material.
- GAC created under the old approach (Dutch Intervention Value is 625mg/kg, so the GAC is considered conservative).