ALcontrol Laboratories

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Newport City Council
Civic Centre
Newport
NP20 4UR

Attention: Meirion Humphreys

CERTIFICATE OF ANALYSIS

Date:	07 October 2016
Customer:	H_NCC_NPT
Sample Delivery Group (SDG):	160929-39
Your Reference:	
Location:	Docksway Landfill Site
Report No:	381435

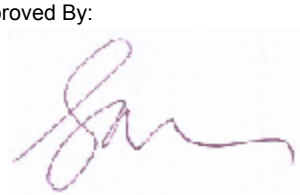
This report has been revised and directly supersedes 381434 in its entirety.

We received 9 samples on Thursday September 29, 2016 and 9 of these samples were scheduled for analysis which was completed on Friday October 07, 2016. Accredited laboratory tests are defined within the report, but opinions, interpretations and on-site data expressed herein are outside the scope of ISO 17025 accreditation.

Should this report require incorporation into client reports, it must be used in its entirety and not simply with the data sections alone.

Chemical testing (unless subcontracted) performed at ALcontrol Laboratories Hawarden (Method codes TM) or ALcontrol Laboratories Aberdeen (Method codes S).

Approved By:



Sonia McWhan

Operations Manager

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Received Sample Overview

Lab Sample No(s)	Customer Sample Ref.	AGS Ref.	Depth (m)	Sampled Date
14232859	C2B		0.00 - 0.00	28/09/2016
14232873	LF08_07		0.00 - 0.00	28/09/2016
14232896	LF11_02		0.00 - 0.00	28/09/2016
14232920	LF11_04		0.00 - 0.00	28/09/2016
14232932	LF11_05		0.00 - 0.00	28/09/2016
14232907	LF11_07		0.00 - 0.00	28/09/2016
14232944	SW11		0.00 - 0.00	28/09/2016
14232886	SW_24		0.00 - 0.00	28/09/2016
14232890	SW_1A		0.00 - 0.00	28/09/2016

Only received samples which have had analysis scheduled will be shown on the following pages.

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

Lab Sample No(s)	14232859	14232873	14232896	14232920	14232932	14232907
Customer Sample Reference	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
AGS Reference						
Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00

Container	1000ml glass bottle (ALE	1lplastic (ALE221)	250ml BOD (ALE212)	Dissolved Metals Preser	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	ZnAc (ALE246)	1000ml glass bottle (ALE	1lplastic (ALE221)	250ml BOD (ALE212)	Dissolved Metals Preser	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	ZnAc (ALE246)	1000ml glass bottle (ALE	Dissolved Metals Preser	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	1000ml glass bottle (ALE	Dissolved Metals Preser	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)	Vial (ALE297)	1000ml glass bottle (ALE	Dissolved Metals Preser	H2SO4 (ALE244)	HNO3 Filtered (ALE204)	NaOH (ALE245)
Alkalinity Filtered as CaCO3	All	NDPs: 0 Tests: 2		X								X																							
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 9					X								X							X						X						X	
Anions by Kone (w)	All	NDPs: 0 Tests: 5		X								X																							
BOD True Total	All	NDPs: 0 Tests: 5			X								X																						
COD Unfiltered	All	NDPs: 0 Tests: 5			X								X																						
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 5		X								X																							
Cyanide Comp/Free/Total/Thiocyanate	All	NDPs: 0 Tests: 6						X								X							X							X					X
Dissolved Metals by ICP-MS	All	NDPs: 0 Tests: 6					X								X							X							X						X
EPH (DRO) (C10-C40) Aqueous (W)	All	NDPs: 0 Tests: 6	X								X								X						X						X				
Ionic Balance	All	NDPs: 0 Tests: 2		X								X																							
Mercury Dissolved	All	NDPs: 0 Tests: 6				X								X								X							X						X	
Metals by iCap-OES Dissolved (W)	All	NDPs: 0 Tests: 6					X								X							X							X						X
Nitrite by Kone (w)	All	NDPs: 0 Tests: 2						X								X							X							X						
Organochlorine Pesticides (Aq)	All	NDPs: 0 Tests: 6	X								X								X						X						X				
Organophosphorus Pesticides (Aq)	All	NDPs: 0 Tests: 6	X								X								X						X						X				

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			14232859	C2B		0.00 - 0.00	1000ml glass bottle (ALE
			14232873	LF08_07		0.00 - 0.00	1lplastic (ALE221)
			14232896	LF11_02		0.00 - 0.00	250ml BOD (ALE212)
			14232920	LF11_04		0.00 - 0.00	Dissolved Metals Preser
			14232932	LF11_05		0.00 - 0.00	H2SO4 (ALE244)
			14232907	LF11_07		0.00 - 0.00	HNO3 Filtered (ALE204)
							NaOH (ALE245)
Organotins in Aqueous Samples	All	NDPs: 0 Tests: 2	X				X
PAH Spec MS - Aqueous (W)	All	NDPs: 0 Tests: 2	X				X
pH Value	All	NDPs: 0 Tests: 5		X			X
Phenols by HPLC (W)	All	NDPs: 0 Tests: 6			X		X
Sulphide	All	NDPs: 0 Tests: 2				X	X
SVOC MS (W) - Aqueous	All	NDPs: 0 Tests: 5	X				X
Total Organic and Inorganic Carbon	All	NDPs: 0 Tests: 2	X				X
VOC MS (W)	All	NDPs: 0 Tests: 6				X	X

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

LIQUID

Results Legend

X **Test**

N **No Determination Possible**

			Lab Sample No(s)	Customer Sample Reference	AGS Reference	Depth (m)	Container
			14232907	LF11_07		0.00 - 0.00	Vial (ALE297)
			14232944	SW11		0.00 - 0.00	1lplastic (ALE221)
			14232886	SW_24		0.00 - 0.00	250ml BOD (ALE212)
			14232890	SW_1A		0.00 - 0.00	H2SO4 (ALE244)
							1lplastic (ALE221)
							250ml BOD (ALE212)
							H2SO4 (ALE244)
							1lplastic (ALE221)
							250ml BOD (ALE212)
							H2SO4 (ALE244)
Ammoniacal Nitrogen	All	NDPs: 0 Tests: 9					X X X
Anions by Kone (w)	All	NDPs: 0 Tests: 5		X			X X X
BOD True Total	All	NDPs: 0 Tests: 5			X		X X X
COD Unfiltered	All	NDPs: 0 Tests: 5			X		X X X
Conductivity (at 20 deg.C)	All	NDPs: 0 Tests: 5		X			X X X
pH Value	All	NDPs: 0 Tests: 5		X			X X X
VOC MS (W)	All	NDPs: 0 Tests: 6	X				

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			C2B	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232859	
			LF08_07	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232873	
			LF11_02	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232896	
			LF11_04	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232920	
			LF11_05	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232932	
			LF11_07	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232907	
Ionic balance	% Diff	Calulation	-1.46	3.57							
Alkalinity,Total as CaCO3 (diss.filt)	<2 mg/l	TM043	7820	6220							
BOD, unfiltered	<1 mg/l	TM045	116 #	113 #							
Organic Carbon, Total	<3 mg/l	TM090	564 #	541 ♦ #							
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099	1240 #	1060 #	341 #	1920 #	1560 #	1420 #			
Sulphide	<0.01 mg/l	TM101	0.275 #	0.213 #							
COD, unfiltered	<7 mg/l	TM107	1650 #	1420 #							
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120	15.2 #	13.2 #							
Arsenic (diss.filt)	<0.51 µg/l	TM152	0.847 #	32.7 #	4.51 #	22.8 #	55.8 #	1.21 #			
Boron (diss.filt)	<5 µg/l	TM152	136 #	4420 #							
Cadmium (diss.filt)	<0.08 µg/l	TM152	<0.08 #	0.104 #							
Chromium (diss.filt)	<1.2 µg/l	TM152	2.79 #	108 #							
Copper (diss.filt)	<0.85 µg/l	TM152	<0.85 #	8.34 #							
Lead (diss.filt)	<0.1 µg/l	TM152	<0.1 #	6.28 #							
Manganese (diss.filt)	<0.76 µg/l	TM152	10.6 #	772 #							
Nickel (diss.filt)	<0.44 µg/l	TM152	3.27 #	200 #	29.3 #	341 #	414 #	16.5 #			
Selenium (diss.filt)	<0.81 µg/l	TM152	<0.81 #	1.62 #							
Zinc (diss.filt)	<1.3 µg/l	TM152	6.43 #	45.4 #							
EPH Range >C10 - C40 (aq)	<46 µg/l	TM172	5170 #	12500 #	7810 #	10300 #	45700000 #	11500 #			
Mercury (diss.filt)	<0.01 µg/l	TM183	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #	<0.01 #			
Nitrite as NO2	<0.05 mg/l	TM184	0.259 #	9.65 #							
Sulphate	<2 mg/l	TM184	<20 #	203 #							
Chloride	<2 mg/l	TM184	2210 #	1830 #							
Phosphate (ortho) as PO4	<0.05 mg/l	TM184	4.93 #	11.9 #							
Nitrate as NO3	<0.3 mg/l	TM184	<6 #	<6 #							
Total Oxidised Nitrogen as N	<0.1 mg/l	TM184	<2 #	2.09 #							
Cyanide, Total	<0.05 mg/l	TM227	<0.05 #	<0.05 #	<0.05 #	0.056 #	0.064 #	<0.05 #			
Cyanide, Free	<0.05 mg/l	TM227			<0.05 #	<0.05 #	<0.05 #	<0.05 #			
Potassium (diss.filt)	<1 mg/l	TM228	711 #	661 #	210 #	1170 #	880 #	731 #			
Iron (diss.filt)	<0.019 mg/l	TM228	7.9 #	6.02 #							
Hardness, Total as CaCO3	<1 mg/l	TM228	1250 #	1270 #							
pH	<1 pH Units	TM256	8.01 #	8.09 #							

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
Phenols, Total Detected monohydric	<0.016 mg/l	TM259		0.06 #	0.04 #	<0.016 #	0.12 #	0.61 #	0.19 #
1,3,5-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<10	<0.02
1,2,4-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	0.046	<0.02	<10	<0.02
1,2,3-Trichlorobenzene	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<10	<0.02
Hexachlorobutadiene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dichlobenil	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Etridiazole	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chloroneb	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Tecnazene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Propachlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Trifluralin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
alpha-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Hexachlorobenzene	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
beta-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
gamma-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
delta-HCH	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Triallate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chlorothalonil	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Heptachlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Aldrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Isodrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dacthal	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Heptachlor-exo-epoxide	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
alpha-Chlordane	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
2,4-DDE	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
alpha-Endosulphan	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
gamma-Chlordane	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
4,4-DDE	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dieldrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
2,4-DDD	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Endrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chlorobenzilate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01

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Results Legend

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tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
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Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
beta-Endosulfan	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
4,4-DDD	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
2,4-DDT	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Endrin-Aldehyde	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
4,4-DDT	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Endosulfan-sulfate	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Methoxychlor	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
cis-Permethrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
trans-Permethrin	<0.01 µg/l	TM314		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Cypermethrin	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<10	<0.02
Drins	<0.04 µg/l	TM314		<0.04	<0.04	<0.04	<0.04	<20	<0.04
DDT	<0.02 µg/l	TM314		<0.02	<0.02	<0.02	<0.02	<10	<0.02
Dichlorvos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Mevinphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Omethoate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Demeton-s-methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Disulfoton	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Phorate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dimethoate	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dioxation	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Propetamphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Simazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Trietazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Atrazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Diazinon	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Propazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Terbufos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Cypromazine	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chlorpyriphos-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Parathion-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Alachlor	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Pirimiphos-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
Fenitrothion	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Malathion	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Fenthion	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chlorpyriphos-Ethyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Terbutryn	<0.01 µg/l	TM315		0.485	<0.01	<0.01	0.399	<5	<0.01
Parathion-Ethyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Triadimefon	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Chlorfenvinphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Bromophos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Prometryn	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Ethion	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Triazophos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Carbophenothion	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
EPN	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Phosalone	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Azinphos-Ethyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Amitraz	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Azinphos-Methyl	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Coumaphos	<0.01 µg/l	TM315		<0.01	<0.01	<0.01	<0.01	<5	<0.01
Dibutyl tin	<5 ng/l	TM328		<5	<5				
Tributyl tin	<1 ng/l	TM328		<1	<1				
Tetrabutyl tin	<2 ng/l	TM328		<2	<2				
Triphenyl tin	<1 ng/l	TM328		<1	<1				
Surrogate	%	TM328		79.4	102				

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	SW11	SW_24	SW_1A			
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00			
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)			
			Date Sampled	28/09/2016	28/09/2016	28/09/2016			
			Sample Time	-	-	-			
			Date Received	29/09/2016	29/09/2016	29/09/2016			
			SDG Ref	160929-39	160929-39	160929-39			
			Lab Sample No.(s)	14232944	14232886	14232890			
			AGS Reference						
BOD, unfiltered	<1 mg/l	TM045		5.51 #	4.03 #	<1 #			
Ammoniacal Nitrogen as N	<0.2 mg/l	TM099		<0.2 #	0.293 #	0.843 #			
COD, unfiltered	<7 mg/l	TM107		223 #	38.9 #	17.1 #			
Conductivity @ 20 deg.C	<0.005 mS/cm	TM120		0.356 #	0.484 #	0.308 #			
Chloride	<2 mg/l	TM184		13.8 #	42.3 #	13.1 #			
pH	<1 pH Units	TM256		7.59 #	7.76 #	7.99 #			

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

PAH Spec MS - Aqueous (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07				
			Depth (m)	0.00 - 0.00	0.00 - 0.00				
			Sample Type	Water(GW/SW)	Water(GW/SW)				
			Date Sampled	28/09/2016	28/09/2016				
			Sample Time	-	-				
			Date Received	29/09/2016	29/09/2016				
			SDG Ref	160929-39	160929-39				
			Lab Sample No.(s)	14232859	14232873				
			AGS Reference						
Naphthalene (aq)	<0.1 µg/l	TM178		1.39 #	0.924 #				

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

SVOC MS (W) - Aqueous

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	Depth (m)	Sample Type	Date Sampled	Sample Time	Date Received	SDG Ref	Lab Sample No.(s)	AGS Reference
			C2B	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232859	
			LF08_07	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232873	
			LF11_02	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232896	
			LF11_04	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232920	
			LF11_05	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232932	
			LF11_07	0.00 - 0.00	Water(GW/SW)	28/09/2016	-	29/09/2016	160929-39	14232907	
1,2,4-Trichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
1,2-Dichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
1,3-Dichlorobenzene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
1,4-Dichlorobenzene (aq)	<1 µg/l	TM176	<8	<8	2.3	<8	<80	<8			
2,4,5-Trichlorophenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2,4,6-Trichlorophenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2,4-Dichlorophenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2,4-Dimethylphenol (aq)	<1 µg/l	TM176	<8 #	<8 #	1.18 #	9.46 #	<80 #	18.2 #			
2,4-Dinitrotoluene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2,6-Dinitrotoluene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2-Chloronaphthalene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2-Chlorophenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2-Methylnaphthalene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	208 #	<8 #			
2-Methylphenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2-Nitroaniline (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
2-Nitrophenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
3-Nitroaniline (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
4-Bromophenylphenylether (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
4-Chloro-3-methylphenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	278 #	<8 #			
4-Chloroaniline (aq)	<1 µg/l	TM176	<8	<8	<1	<8	<80	<8			
4-Chlorophenylphenylether (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
4-Methylphenol (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
4-Nitroaniline (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
4-Nitrophenol (aq)	<1 µg/l	TM176	<8	<8	<1	<8	<80	<8			
Azobenzene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
Acenaphthylene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
Acenaphthene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	158 #	9.03 #			
Anthracene (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	86 #	<8 #			
bis(2-Chloroethyl)ether (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
bis(2-Chloroethoxy)methane (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			
bis(2-Ethylhexyl) phthalate (aq)	<2 µg/l	TM176	<16 #	<16 #	<2 #	273 #	128000 #	119 #			
Butylbenzyl phthalate (aq)	<1 µg/l	TM176	<8 #	<8 #	<1 #	<8 #	<80 #	<8 #			

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

SVOC MS (W) - Aqueous

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
Benzo(a)anthracene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	133 #	<8 #
Benzo(b)fluoranthene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	132 #	<8 #
Benzo(k)fluoranthene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Benzo(a)pyrene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	90.5 #	<8 #
Benzo(g,h,i)perylene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Carbazole (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Chrysene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	117 #	<8 #
Dibenzofuran (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
n-Dibutyl phthalate (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Diethyl phthalate (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Dibenzo(a,h)anthracene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Dimethyl phthalate (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
n-Dioctyl phthalate (aq)	<5 µg/l	TM176		<40 #	<40 #	<5 #	<40 #	1610 #	<40 #
Fluoranthene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	413 #	<8 #
Fluorene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	156 #	<8 #
Hexachlorobenzene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Hexachlorobutadiene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Pentachlorophenol (aq)	<1 µg/l	TM176		<8	<8	<1	<8	<80	<8
Phenol (aq)	<1 µg/l	TM176		<8	<8	<1	<8	<80	<8
n-Nitroso-n-dipropylamine (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Hexachloroethane (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Nitrobenzene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Naphthalene (aq)	<1 µg/l	TM176		<8 #	<8 #	3.15 #	<8 #	452 #	22.5 #
Isophorone (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Hexachlorocyclopentadiene (aq)	<1 µg/l	TM176		<8	<8	<1	<8	<80	<8
Phenanthrene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	484 #	<8 #
Indeno(1,2,3-cd)pyrene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	<80 #	<8 #
Pyrene (aq)	<1 µg/l	TM176		<8 #	<8 #	<1 #	<8 #	311 #	<8 #

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	-	-	-	-	-	-
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
Dibromofluoromethane**	%	TM208		101	99.8	106	101	116 1	103
Toluene-d8**	%	TM208		96.1	96.3	96.7	96.9	90.6 1	95.2
4-Bromofluorobenzene**	%	TM208		97.1	97.8	97.9	96	83.5 1	91.8
Dichlorodifluoromethane	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1
Chloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Vinyl chloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Bromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Chloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Trichlorofluoromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,1-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Carbon disulphide	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Dichloromethane	<3 µg/l	TM208		<3 #	<3 #	<3 #	<3 #	<30 1 #	<3 #
Methyl tertiary butyl ether (MTBE)	<1 µg/l	TM208		1.24 #	3.31 #	<1 #	1.24 #	<10 1 #	1.23 #
trans-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,1-Dichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
cis-1,2-Dichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	2.23 #
2,2-Dichloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1
Bromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Chloroform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,1,1-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,1-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Carbontetrachloride	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,2-Dichloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1
Benzene	<1 µg/l	TM208		5.21 #	3.27 #	5.9 #	10.1 #	19.7 1 #	6.4 #
Trichloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,2-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Dibromomethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Bromodichloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
cis-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Toluene	<1 µg/l	TM208		1.4 #	1.46 #	1.55 #	20.2 #	174 1 #	5.08 #
trans-1,3-Dichloropropene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,1,2-Trichloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

VOC MS (W)

Results Legend

#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
1,3-Dichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Tetrachloroethene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Dibromochloromethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,2-Dibromoethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Chlorobenzene	<1 µg/l	TM208		<1 #	<1 #	4.8 #	<1 #	25.8 1 #	<1 #
1,1,1,2-Tetrachloroethane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Ethylbenzene	<1 µg/l	TM208		7.13 #	4.56 #	3.32 #	21.1 #	699 1 #	1.79 #
m,p-Xylene	<1 µg/l	TM208		8.65 #	5.07 #	82.1 #	32.8 #	1450 1 #	35.9 #
o-Xylene	<1 µg/l	TM208		5.84 #	4.69 #	9.95 #	17.7 #	499 1 #	20.2 #
Styrene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Bromoform	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Isopropylbenzene	<1 µg/l	TM208		<1 #	<1 #	4.21 #	2.31 #	419 1 #	<1 #
1,1,2,2-Tetrachloroethane	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1
1,2,3-Trichloropropane	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Bromobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Propylbenzene	<1 µg/l	TM208		<1 #	<1 #	2.13 #	1.66 #	111 1 #	<1 #
2-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,3,5-Trimethylbenzene	<1 µg/l	TM208		<1 #	<1 #	1.77 #	4.53 #	292 1 #	4.18 #
4-Chlorotoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
tert-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,2,4-Trimethylbenzene	<1 µg/l	TM208		3.28 #	3.4 #	17.4 #	21.2 #	889 1 #	16.6 #
sec-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	40.3 1 #	<1 #
4-iso-Propyltoluene	<1 µg/l	TM208		<1 #	<1 #	<1 #	18.4 #	891 1 #	5.86 #
1,3-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,4-Dichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	49.3 1 #	<1 #
n-Butylbenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	62.7 1 #	<1 #
1,2-Dichlorobenzene	<1 µg/l	TM208		<1	<1	2.23	<1	<10 1	<1
1,2-Dibromo-3-chloropropane	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1
1,2,4-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Hexachlorobutadiene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
tert-Amyl methyl ether (TAME)	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
Naphthalene	<1 µg/l	TM208		<1 #	<1 #	2.45 #	2.89 #	156 1 #	12.1 #

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

VOC MS (W)

Results Legend	
#	ISO17025 accredited.
M	*m*CERTS accredited.
aq	Aqueous / settled sample.
diss.filt	Dissolved / filtered sample.
tot.unfilt	Total / unfiltered sample.
*	Subcontracted test.
**	% recovery of the surrogate standard to check the efficiency of the method. The results of individual compounds within samples aren't corrected for the recovery
(F)	Trigger breach confirmed
1-5&+§@	Sample deviation (see appendix)

Component	LOD/Units	Method	Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07
			Depth (m)	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
			Sample Type	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)	Water(GW/SW)
			Date Sampled	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016	28/09/2016
			Sample Time	.	.	.	.	.	.
			Date Received	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016	29/09/2016
			SDG Ref	160929-39	160929-39	160929-39	160929-39	160929-39	160929-39
			Lab Sample No.(s)	14232859	14232873	14232896	14232920	14232932	14232907
			AGS Reference						
1,2,3-Trichlorobenzene	<1 µg/l	TM208		<1 #	<1 #	<1 #	<1 #	<10 1 #	<1 #
1,3,5-Trichlorobenzene	<1 µg/l	TM208		<1	<1	<1	<1	<10 1	<1

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Table of Results - Appendix

Method No	Reference	Description	Wet/Dry Sample ¹	Surrogate Corrected
Calulation				
TM043	Method 2320B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part109 1984	Determination of alkalinity in aqueous samples		
TM045	MEWAM BOD5 2nd Ed.HMSO 1988 / Method 5210B, AWWA/APHA, 20th Ed., 1999; SCA Blue Book 130	Determination of BOD5 (ATU) Filtered by Oxygen Meter on liquids		
TM061	Method for the Determination of EPH,Massachusetts Dept.of EP, 1998	Determination of Extractable Petroleum Hydrocarbons by GC-FID (C10-C40)		
TM090	Method 5310, AWWA/APHA, 20th Ed., 1999 / Modified: US EPA Method 415.1 & 9060	Determination of Total Organic Carbon/Total Inorganic Carbon in Water and Waste Water		
TM099	BS 2690: Part 7:1968 / BS 6068: Part2.11:1984	Determination of Ammonium in Water Samples using the Kone Analyser		
TM101	Method 4500B & C, AWWA/APHA, 20th Ed., 1999	Determination of Sulphide in soil and water samples using the Kone Analyser		
TM107	ISO 6060-1989	Determination of Chemical Oxygen Demand using COD Dr Lange Kit		
TM120	Method 2510B, AWWA/APHA, 20th Ed., 1999 / BS 2690: Part 9:1970	Determination of Electrical Conductivity using a Conductivity Meter		
TM152	Method 3125B, AWWA/APHA, 20th Ed., 1999	Analysis of Aqueous Samples by ICP-MS		
TM172	Analysis of Petroleum Hydrocarbons in Environmental Media – Total Petroleum Hydrocarbon Criteria	EPH in Waters		
TM176	EPA 8270D Semi-Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	Determination of SVOCs in Water by GCMS		
TM178	Modified: US EPA Method 8100	Determination of Polynuclear Aromatic Hydrocarbons (PAH) by GC-MS in Waters		
TM183	BS EN 23506:2002, (BS 6068-2.74:2002) ISBN 0 580 38924 3	Determination of Trace Level Mercury in Waters and Leachates by PSA Cold Vapour Atomic Fluorescence Spectrometry		
TM184	EPA Methods 325.1 & 325.2,	The Determination of Anions in Aqueous Matrices using the Kone Spectrophotometric Analysers		
TM208	Modified: US EPA Method 8260b & 624	Determination of Volatile Organic Compounds by Headspace / GC-MS in Waters		
TM227	Standard methods for the examination of waters and wastewaters 20th Edition, AWWA/APHA Method 4500.	Determination of Total Cyanide, Free (Easily Liberatable) Cyanide and Thiocyanate		
TM228	US EPA Method 6010B	Determination of Major Cations in Water by iCap 6500 Duo ICP-OES		
TM256	The measurement of Electrical Conductivity and the Laboratory determination of pH Value of Natural, Treated and Wastewaters. HMSO, 1978. ISBN 011 751428 4.	Determination of pH in Water and Leachate using the GLpH pH Meter		
TM259	by HPLC	Determination of Phenols in Waters and Leachates by HPLC		
TM314		Analysis of Organochlorine Pesticides in Aqueous sample by GCMS		
TM315		Analysis of Organophosphorus Pesticides in Aqueous samples by GCMS		
TM328				

¹ Applies to Solid samples only. DRY indicates samples have been dried at 35°C. NA = not applicable.

Chemical testing (unless subcontracted) performed at ALcontrol Laboratories Hawarden (Method codes TM) or ALcontrol Laboratories Aberdeen (Method codes S).

CERTIFICATE OF ANALYSIS

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Test Completion Dates

Lab Sample No(s)	14232859	14232873	14232896	14232920	14232932	14232907	14232944	14232886	14232890
Customer Sample Ref.	C2B	LF08_07	LF11_02	LF11_04	LF11_05	LF11_07	SW11	SW_24	SW_1A
AGS Ref.									
Depth	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00	0.00 - 0.00
Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Alkalinity Filtered as CaCO3	04-Oct-2016	04-Oct-2016							
Ammoniacal Nitrogen	05-Oct-2016	07-Oct-2016	06-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016
Anions by Kone (w)	07-Oct-2016	07-Oct-2016					05-Oct-2016	05-Oct-2016	05-Oct-2016
BOD True Total	04-Oct-2016	04-Oct-2016					04-Oct-2016	04-Oct-2016	04-Oct-2016
COD Unfiltered	30-Sep-2016	30-Sep-2016					30-Sep-2016	30-Sep-2016	30-Sep-2016
Conductivity (at 20 deg.C)	06-Oct-2016	06-Oct-2016					06-Oct-2016	06-Oct-2016	06-Oct-2016
Cyanide Comp/Free/Total/Thiocyanate	05-Oct-2016	05-Oct-2016	05-Oct-2016	05-Oct-2016	05-Oct-2016	05-Oct-2016			
Dissolved Metals by ICP-MS	05-Oct-2016	05-Oct-2016	06-Oct-2016	05-Oct-2016	05-Oct-2016	05-Oct-2016			
EPH (DRO) (C10-C40) Aqueous (W)	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016			
Ionic Balance	07-Oct-2016	07-Oct-2016							
Mercury Dissolved	07-Oct-2016	07-Oct-2016	06-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016			
Metals by iCap-OES Dissolved (W)	07-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016			
Nitrite by Kone (w)	04-Oct-2016	04-Oct-2016							
Organochlorine Pesticides (Aq)	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016			
Organophosphorus Pesticides (Aq)	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016	06-Oct-2016			
Organotins in Aqueous Samples	06-Oct-2016	06-Oct-2016							
PAH Spec MS - Aqueous (W)	06-Oct-2016	06-Oct-2016							
pH Value	05-Oct-2016	05-Oct-2016					05-Oct-2016	05-Oct-2016	05-Oct-2016
Phenols by HPLC (W)	04-Oct-2016	04-Oct-2016	04-Oct-2016	04-Oct-2016	04-Oct-2016	04-Oct-2016			
Sulphide	06-Oct-2016	06-Oct-2016							
SVOC MS (W) - Aqueous	06-Oct-2016	06-Oct-2016	06-Oct-2016	07-Oct-2016	07-Oct-2016	07-Oct-2016			
Total Organic and Inorganic Carbon	06-Oct-2016	07-Oct-2016							
VOC MS (W)	05-Oct-2016	05-Oct-2016	05-Oct-2016	05-Oct-2016	06-Oct-2016	05-Oct-2016			

SDG:	160929-39	**Location:**	Docksway Landfill Site	**Order Number:**	700095479
Job:	H_NCC_NPT-3	**Customer:**	Newport City Council	**Report Number:**	381435
Client Reference:		**Attention:**	Meirion Humphreys	**Superseded Report:**	381434

Appendix

1. Results are expressed on a dry weight basis (dried at 35ºC) for all soil analyses except for the following: NRA and CEN Leach tests, flash point LOI, pH, ammonium as NH4 by the BRE method, VOC TICs and SVOC TICs.

2. Samples will be run in duplicate upon request, but an additional charge may be incurred.

3. If sufficient sample is received a sub sample will be retained free of charge for 30 days after analysis is completed (e-mailed) for all sample types unless the sample is destroyed on testing. The prepared soil sub sample that is analysed for asbestos will be retained for a period of 6 months after the analysis date. All bulk samples will be retained for a period of 6 months after the analysis date. All samples received and not scheduled will be disposed of one month after the date of receipt unless we are instructed to the contrary. Once the initial period has expired, a storage charge will be applied for each month or part thereof until the client cancels the request for sample storage. ALcontrol Laboratories reserve the right to charge for samples received and stored but not analysed.

4. With respect to turnaround, we will always endeavour to meet client requirements wherever possible, but turnaround times cannot be absolutely guaranteed due to so many variables beyond our control.

5. We take responsibility for any test performed by sub-contractors (marked with an asterisk). We endeavour to use UKAS/MCERTS Accredited Laboratories, who either complete a quality questionnaire or are audited by ourselves. For some determinands there are no UKAS/MCERTS Accredited Laboratories, in this instance a laboratory with a known track record will be utilised.

6. When requested, the individual sub sample scheduled will be analysed in house for the presence of asbestos fibres and asbestos containing material by our documented in house method TM048 based on HSG 248 (2005), which is accredited to ISO17025. If a specific asbestos fibre type is not found this will be reported as “Not detected”. If no asbestos fibre types are found all will be reported as “Not detected” and the sub sample analysed deemed to be clear of asbestos. If an asbestos fibre type is found it will be reported as detected (for each fibre type found). Testing can be carried out on asbestos positive samples, but, due to Health and Safety considerations, may be replaced by alternative tests or reported as No Determination Possible (NDP). The quantity of asbestos present is not determined unless specifically requested.

7. If no separate volatile sample is supplied by the client, or if a headspace or sediment is present in the volatile sample, the integrity of the data may be compromised. This will be flagged up as an invalid VOC on the test schedule and the result marked as deviating on the test certificate.

8. If appropriate preserved bottles are not received preservation will take place on receipt . However, the integrity of the data may be compromised.

9. NDP - No determination possible due to insufficient/unsuitable sample.

10. Metals in water are performed on a filtered sample, and therefore represent dissolved metals - total metals must be requested separately.

11. Results relate only to the items tested.

12. LoDs (Limit of Detection) for wet tests reported on a dry weight basis are not corrected for moisture content.

13. **Surrogate recoveries** - Surrogates are added to your sample to monitor recovery of the test requested. A % recovery is reported, results are not corrected for the recovery measured. Typical recoveries for organics tests are 70-130%, they are generally wider for volatiles analysis, 50-150%. Recoveries in soils are affected by organic rich or clay rich matrices. Waters can be affected by remediation fluids or high amounts of sediment . Test results are only ever reported if all of the associated quality checks pass; it is assumed that all recoveries outside of the values above are due to matrix affect .

14. **Product analyses** - Organic analyses on products can only be semi-quantitative due to the matrix effects and high dilution factors employed.

15. Phenols monohydric by HPLC include phenol, cresols (2-Methylphenol, 3-Methylphenol and 4-Methylphenol) and Xylenols (2,3 Dimethylphenol, 2,4 Dimethylphenol, 2,5 Dimethylphenol, 2,6 Dimethylphenol, 3,4 Dimethyphenol, 3,5 Dimethylphenol).

16. Total of 5 speciated phenols by HPLC includes Phenol, 2,3,5-Trimethyl Phenol, 2-Isopropylphenol, Cresols and Xylenols (as detailed in 15).

17. Stones/debris are not routinely removed. We always endeavour to take a representative sub sample from the received sample.

18. In certain circumstances the method detection limit may be elevated due to the sample being outside the calibration range. Other factors that may contribute to this include possible interferences. In both cases the sample would be diluted which would cause the method detection limit to be raised.

19. Mercury results quoted on soils will not include volatile mercury as the analysis is performed on a dried and crushed sample.

General

20. For the BSEN 12457-3 two batch process to allow the cumulative release to be calculated, the volume of the leachate produced is measured and filtered for all tests. We therefore cannot carry out any unfiltered analysis. The tests affected include volatiles GCFID/GCMS and all subcontracted analysis.

21. For leachate preparations other than Zero Headspace Extraction (ZHE) volatile loss may occur.

22. We are accredited to MCERTS for sand, clay and loam/topsoil, or any of these materials - whether these are derived from naturally occurring soil profiles, or from fill/made ground, as long as these materials constitute the major part of the sample. Other coarse granular material such as concrete, gravel and brick are not accredited if they comprise the major part of the sample.

23. Analysis and identification of specific compounds using GCFID is by retention time only, and we routinely calibrate and quantify for benzene, toluene, ethylbenzenes and xylenes (BTEX). For total volatiles in the C5-C12 range, the total area of the chromatogram is integrated and expressed as ug/kg or ug/l. Although this analysis is commonly used for the quantification of gasoline range organics (GRO), the system will also detect other compounds such as chlorinated solvents, and this may lead to a falsely high result with respect to hydrocarbons only. It is not possible to specifically identify these non-hydrocarbons, as standards are not routinely run for any other compounds, and for more definitive identification, volatiles by GCMS should be utilised.

24. **Tentatively Identified Compounds (TICs)** are non-target peaks in VOC and SVOC analysis. All non-target peaks detected with a concentration above the LoD are subjected to a mass spectral library search. Non-target peaks with a library search confidence of >75% are reported based on the best mass spectral library match. When a non-target peak with a library search confidence of <75% is detected it is reported as “mixed hydrocarbons”. Non-target compounds identified from the scan data are semi-quantified relative to one of the deuterated internal standards, under the same chromatographic conditions as the target compounds. This result is reported as a semi-quantitative value and reported as Tentatively Identified Compounds (TICs). TICs are outside the scope of UKAS accreditation and are not moisture corrected.

Sample Deviations

1	Container with Headspace provided for volatiles analysis
2	Incorrect container received
3	Deviation from method
4	Holding time exceeded before sample received
5	Samples exceeded holding time before presevation was performed
§	Sampled on date not provided
♦	Sample holding time exceeded in laboratory
@	Sample holding time exceeded due to sampled on date
&	Sample Holding Time exceeded - Late arrival of instructions.

Asbestos

Identification of Asbestos in Bulk Materials & Soils

The results for identification of asbestos in bulk materials are obtained from supplied bulk materials which have been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

The results for identification of asbestos in soils are obtained from a homogenised sub sample which has been examined to determine the presence of asbestos fibres using ALcontrol Laboratories (Hawarden) in-house method of transmitted/polarised light microscopy and central stop dispersion staining, based on HSG 248 (2005).

Asbestos Type	Common Name
Chrysotile	White Asbestos
Amosite	Brown Asbestos
Crocidolite	Blue Asbestos
Fibrous Actinolite	-
Fibrous Anthophyllite	-
Fibrous Tremolite	-

Visual Estimation Of Fibre Content

Estimation of fibre content is not permitted as part of our UKAS accredited test other than : - Trace - Where only one or two asbestos fibres were identified.

Further guidance on typical asbestos fibre content of manufactured products can be found in HSG 264.

The identification of asbestos containing materials and soils falls within our schedule of tests for which we hold UKAS accreditation, however opinions, interpretations and all other information contained in the report are outside the scope of UKAS accreditation.