

IGSL Ltd
Materials Laboratory
M7 Business Park
Naas
Co. Kildare

Test Report

Dry Density/Moisture Content Relationship

Tested in accordance with BS1377:Part 4:1990



Report No. R147915

Contract No. 24665/1

Contract Name: Monaghan Town Active Travel Development Site

Location*: TP14

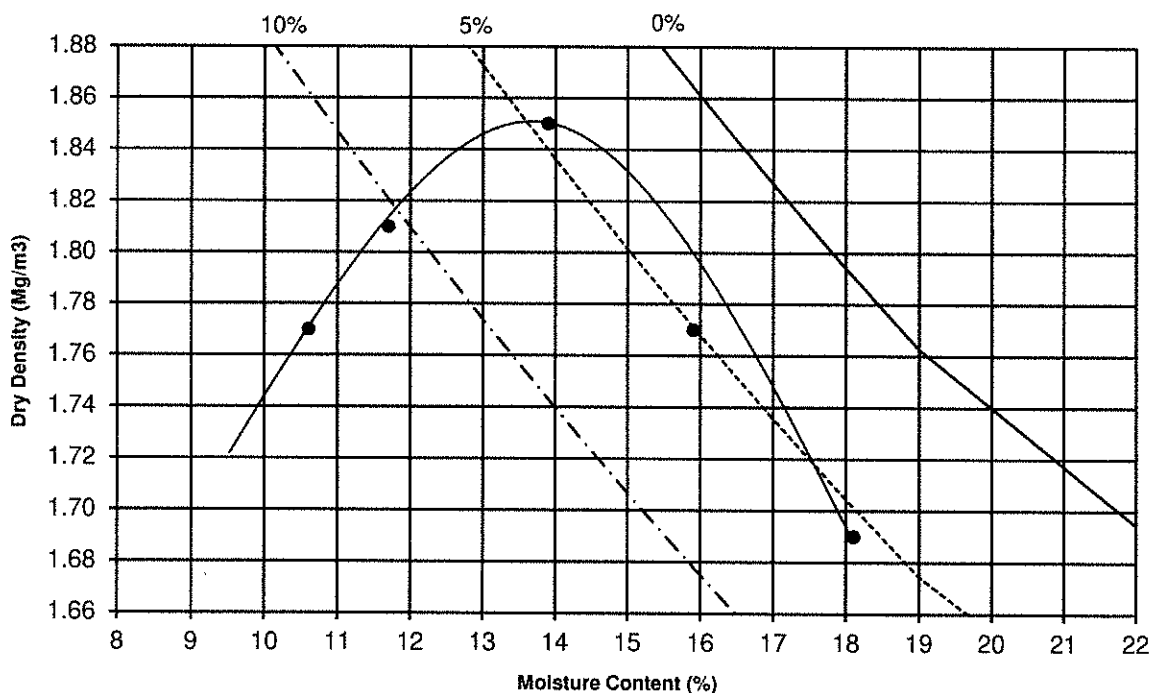
Sample No*. AA205176 Depth* (m) 1.5 Material Type B

Lab sample no. A23/1721 Customer: CORA

Date Received: 09/06/2023 Test Method: 2.5 Kg Rammer

Date Tested: 03/07/2023 BS1377:Part 4:1990 3.3

Dry Density (Mg/m^3)	1.77	1.69	1.85	1.81	1.77		
Moisture Content (%)	11	18	14	12	16	0	



Maximum Dry Density (Mg/m^3): 1.85 Optimum Moisture Content (%): 14

Description: Grey brown slightly sandy, gravelly, SILT/CLAY

Sample Preparation: Material passing 20mm Single / Separate samples used

Particle Density (Mg/m^3): 2.65 Particle Density: Assumed

% retained on 20/37.5mm sieve: 14

Results relate only to the specimen tested, in as received condition unless otherwise noted.
Opinions and interpretations are outside the scope of accreditation.

* denotes Customer supplied information

This report shall not be reproduced except in full without the written approval of the Laboratory.

Persons authorised to approve reports

J Barrett (Quality Manager)

H Byrne (Laboratory Manager)

IGSL Materials Laboratory

Approved by

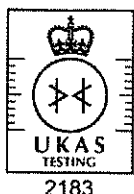
Date

Page

18/07/23

1 of 1

Appendix Vb Chemical / Environmental Laboratory Data



Final Report

Report No.: 23-19446-1

Initial Date of Issue: 19-Jun-2023

Re-issue Details:

Client IGSL

Client Address: M7 Business Park
Naas
County Kildare
Ireland

Contact(s): Darren Keogh

Project 24665 / 1 Monaghan Town Active
Travel Development Site(CORA)

Quotation No.: Q20-19951

Date Received: 08-Jun-2023

Order No.:

Date Instructed: 08-Jun-2023

No. of Samples: 18

Turnaround (Wkdays): 7

Results Due: 16-Jun-2023

Date Approved: 19-Jun-2023

Approved By:

Details: Stuart Henderson, Technical
Manager

Results - Leachate

Project: 24665 / 1 Monaghan Town Active Travel Development
Site(CORA)

Client: IGSL	Chemtest Job No.:	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446
Quotation No.: Q20-19951	Chemtest Sample ID.:	1653387	1653389	1653392	1653395	1653398	1653402		
Order No.:	Client Sample Ref.:	AA192931	AA192934	AA171710	AA200184	AA200195	AA205173		
	Sample Location:	BH01	BH03	BH07	TP04	TP08	TP13		
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
	Top Depth (m):	0.50	0.50	0.80	0.50	0.80	0.60		
Determinand	Accred.	SOP	Type	Units	LOD				
pH	U	1010	10:1		N/A	8.4	8.1	8.8	8.9
Ammonium	U	1220	10:1	mg/l	0.050	0.22	0.13	0.11	0.12
Ammonium	N	1220	10:1	mg/kg	0.10	2.5	1.4	1.5	1.7
Boron (Dissolved)	U	1455	10:1	mg/kg	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Benzofluoranthene	N	1800	10:1	µg/l	0.010	< 0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: 24665 / 1 Monaghan Town Active Travel Development

Site(CORA)

Client: IGSL		Chemtest Job No.					
		Chemtest Sample ID:					
Quotation No.: Q20-19951		Client Sample Ref.:					
Order No.:		Sample Location:					
		Sample Type:					
		Top Depth (m):					
		Asbestos Lab:					
Determinand	Accred.	SOP	Units	LOD			
ACM Type	U	2192		N/A			
Asbestos Identification	U	2192		N/A			No Asbestos Detected
Moisture pH (2.5:1)	N	2030 N 2010	% 	0.020 4.0			-
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40	[A] 8.5	11	6.8
Magnesium (Water Soluble)	N	2120	g/l	0.010	[A] < 0.10	[A] < 0.010	[A] < 0.40
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010	[A] < 0.010	[A] < 0.010	
Total Sulphur	U	2175	%	0.010	[A] 0.015	[A] 0.019	
Sulphur (Elemental)	U	2180	mg/kg	1.0	[A] 3.2	[A] 2.3	[A] 2.2
Chloride (Water Soluble)	U	2220	g/l	0.010	[A] 0.11	[A] < 0.010	
Nitrate (Water Soluble)	N	2220	g/l	0.010	< 0.010	< 0.010	
Cyanide (Total)	U	2300	mg/kg	0.50	[A] < 0.50	[A] < 0.50	[A] < 0.50
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50	[A] 14	[A] 4.7	[A] 2.5
Ammonium (Water Soluble)	U	2220	g/l	0.01	< 0.01	< 0.01	
Sulphate (Acid Soluble)	U	2430	%	0.010	[A] 0.024	[A] 0.018	[A] 0.014
Arsenic	U	2455	mg/kg	0.5	3.3	3.6	3.3
Barium	U	2455	mg/kg	0	28	39	38
Cadmium	U	2455	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chromium	U	2455	mg/kg	0.5	15	16	15
Molybdenum	U	2455	mg/kg	0.5	< 0.5	< 0.5	< 0.5
Antimony	N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper	U	2455	mg/kg	0.50	10	13	11
Mercury	U	2455	mg/kg	0.05	< 0.05	< 0.05	0.05
Nickel	U	2455	mg/kg	0.50	23	31	21
Lead	U	2455	mg/kg	0.50	8.1	12	14
Selenium	U	2455	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Zinc	U	2455	mg/kg	0.50	29	38	37
Chromium (Trivalent)	N	2490	mg/kg	1.0	15	16	15
Chromium (Hexavalent)	N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Organic Matter	U	2625	%	0.40			[A] 2.5
Mineral Oil (TPH Calculation)	N	2670	mg/kg	10	< 10	< 10	< 10
Aliphatic TPH >C5-C6	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0	[A] < 1.0	[A] < 1.0	[A] < 1.0

Results - Soil

Project: 24665 / 1 Monaghan Town Active Travel Development

Site(CORA)

Client: IGSL		Chemtest Job No.:				23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446		23-19446	
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Results - Soil

Project: 24665 / 1 Monaghan Town Active Travel Development

Site(CORA)

Client: IGSL	Chemtest Job No.:	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446
Quotation No.: Q20-19951	Chemtest Sample ID.:	1653387	1653388	1653389	1653390	1653391	1653392	1653393	1653394	1653395	1653396	1653397
Order No.:	Client Sample Ref.:	AA192931	AA197802	AA192934	AA192939	AA192947	AA171710	AA200193	AA200179	AA200184	AA200189	AA200194
	Sample Location:	BH01	BH02	BH03	BH04A	BH05	BH07	TP01	TP03	TP04	TP05	TP06
	Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):	0.50	1.00	0.50	1.00	1.00	0.80	0.70	0.60	0.50	0.40	0.30
	Asbestos Lab:	DURHAM		DURHAM			NEW-ASB				NEW-ASB	
Determinand	Accred.	SOP	Units	LOD								
PCB 52	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
PCB 90+101	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
PCB 118	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
PCB 153	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
PCB 138	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
PCB 180	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
Total PCBs (7 congeners)	N	2815	mg/kg	0.0010	[A] < 0.0010		[A] < 0.0010			[A] < 0.0010		
Total Phenols	U	2820	mg/kg	0.10	< 0.10		< 0.10			< 0.10		

Results - Soil

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Site(CORA)

Client: IGSL		Chemtest Job No.:		23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446
Quotation No.: Q20-19951		Chemtest Sample ID.:		1653396	1653397	1653398	1653399	1653400	1653401	1653402	1653403	1653404	1653405	1653406	1653407	1653408	1653409	1653410
Order No.:		Client Sample Ref.:		AA200182	AA200188	AA200195	AA200196	AA200191	AA200178	AA200173	AA200175	AA200176	AA200177	AA200178	AA200179	AA200180	AA200181	AA200182
		Sample Location:		TP05	TP07	TP08	TP08	TP09	TP12	TP13	TP14	TP14	TP14	TP14	TP14	TP14	TP14	TP14
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.70	0.50	0.80	1.80	0.70	0.80	0.60	0.70	1.50						
		Asbestos Lab:				COVENTRY				NEW-ASB								
Determinand	Accred.	SOP	Units	LOD	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446
ACM Type	U	2192		N/A														
Asbestos Identification	U	2192		N/A														
Moisture	N	2030	%	0.020	13	12	10	7.8	11	11	17	13						
pH (2.5:1)	N	2010		4.0		[A] 8.0		[A] 8.6			[A] 7.8							
Boron (Hot Water Soluble)	U	2120	mg/kg	0.40			[A] < 0.40											
Magnesium (Water Soluble)	N	2120	g/l	0.010		[A] < 0.010		[A] < 0.010			[A] 0.52							
Sulphate (2:1 Water Soluble) as SO4	U	2120	g/l	0.010		[A] < 0.010		[A] < 0.010			[A] < 0.010							
Total Sulphur	U	2175	%	0.010		[A] 0.034		[A] 0.027			[A] 0.077							
Sulphur (Elemental)	U	2180	mg/kg	1.0			[A] 2.6				[A] 3.8							
Chloride (Water Soluble)	U	2220	g/l	0.010		[A] 0.028		[A] < 0.010			[A] < 0.010							
Nitrate (Water Soluble)	N	2220	g/l	0.010		0.017		< 0.010			< 0.010							
Cyanide (Total)	U	2300	mg/kg	0.50			[A] < 0.50				[A] < 0.50							
Sulphide (Easily Liberatable)	N	2325	mg/kg	0.50			[A] 3.3				[A] 3.3							
Ammonium (Water Soluble)	U	2220	g/l	0.01		< 0.01		< 0.01			< 0.01							
Sulphate (Acid Soluble)	U	2430	%	0.010		[A] 0.065	[A] 0.033	[A] 0.045			[A] 0.040							
Arsenic	U	2455	mg/kg	0.5			4.5				5.3							
Barium	U	2455	mg/kg	0			48				43							
Cadmium	U	2455	mg/kg	0.10			< 0.10				< 0.10							
Chromium	U	2455	mg/kg	0.5			27				28							
Molybdenum	U	2455	mg/kg	0.5			< 0.5				< 0.5							
Antimony	N	2455	mg/kg	2.0			< 2.0				< 2.0							
Copper	U	2455	mg/kg	0.50			21				18							
Mercury	U	2455	mg/kg	0.05			< 0.05				< 0.05							
Nickel	U	2455	mg/kg	0.50			43				37							
Lead	U	2455	mg/kg	0.50			16				13							
Selenium	U	2455	mg/kg	0.25			< 0.25				< 0.25							
Zinc	U	2455	mg/kg	0.50			48				41							
Chromium (Trivalent)	N	2490	mg/kg	1.0			27				28							
Chromium (Hexavalent)	N	2490	mg/kg	0.50			< 0.50				< 0.50							
Organic Matter	U	2625	%	0.40	[A] 1.1				[A] 1.1	[A] 1.0								[A] 1.1
Mineral Oil (TPH Calculation)	N	2670	mg/kg	10			< 10				< 10							
Aliphatic TPH >C5-C8	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							
Aliphatic TPH >C6-C8	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							
Aliphatic TPH >C8-C10	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							
Aliphatic TPH >C10-C12	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							
Aliphatic TPH >C12-C16	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							
Aliphatic TPH >C16-C21	N	2680	mg/kg	1.0			[A] < 1.0				[A] < 1.0							

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Client: IGSL	Chemtest Job No.:		23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446	23-19446
Quotation No.: Q20-19951	Chemtest Sample ID.:		1653396	1653397	1653398	1653399	1653400	1653401	1653402	1653403	1653404	1653404	23-19446
Order No.:	Client Sample Ref.:		AA200182	AA200188	AA200195	AA200196	AA200191	AA205178	AA205173	AA205175	AA205176	AA205176	23-19446
	Sample Location:		TP05	TP07	TP08	TP08	TP09	TP12	TP13	TP14	TP14	TP14	23-19446
	Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	23-19446
	Top Depth (m):		0.70	0.50	0.80	1.80	0.70	0.80	0.60	0.70	1.50	1.50	23-19446
	Asbestos Lab:				COVENTRY				NEW-ASB				23-19446
Determinand	Accred.	SOP	Units	LOD									
PCB 52	N	2815	mg/kg	0.0010	[A] < 0.0010								
PCB 90+101	N	2815	mg/kg	0.0010	[A] < 0.0010								
PCB 118	N	2815	mg/kg	0.0010	[A] < 0.0010								
PCB 153	N	2815	mg/kg	0.0010	[A] < 0.0010								
PCB 138	N	2815	mg/kg	0.0010	[A] < 0.0010								
PCB 180	N	2815	mg/kg	0.0010	[A] < 0.0010								
Total PCBs (7 congeners)	N	2815	mg/kg	0.0010	[A] < 0.0010								
Total Phenols	U	2920	mg/kg	0.10	< 0.10								