

Schedule of Accreditation



Organisation Name	EPA
Trading As	
INAB Reg No	113T
Contact Name	Eidin Christie
Address	PO Box 2000, Johnstown Castle Estate, Wexford, Wexford
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Accreditation Standard	ISO 17025 T
Date Initially Awarded	11/11/2002
Scope Classification	Chemical testing
Services available to the public ¹	No

¹ Refer to document on interpreting INAB Scopes of Accreditation

Sites from which accredited services are delivered		
(the detail of the accredited services delivered at each site are on the Scope of Accreditation)		
	Name	Address
1	Monaghan	The Glen, Monaghan
2	Mayo	John Moore Road, Castlebar, Mayo
3	Dublin	McCumisky House, Richview, Clonskeagh, Dublin, Dublin, D14
4	Kilkenny	Seville Lodge, Callan Road, Kilkenny

Scope of Accreditation

Dublin

Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .01 Metal analysis	EPA W05 ^{1 2 3 4}	Aluminium	2 - 100,000µg/l	Bore waters Leachate Potable waters Surface water Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2016/EPA W05
		Antimony	1-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Arsenic	1-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Barium	1-5,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Beryllium	1-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Boron	10-50,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Cadmium	0.02-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05
		Calcium	1-5,000mg/l	Bore waters Leachates Potable waters Surface waters	ICP-MS	ISO17294-1:2006 & ISO17294-2:2004/EPA W05

		Trade wastes WWTP Effluent		
Chromium	1-5,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Cobalt	1-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Copper	1-50,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Iron	10-500,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Lead	0.2 - 2,000µg/l	Potable Waters Trade wastes Bore waters WWTP Effluent Surface water Leachate	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2016/EPA W05
Magnesium	0.25-1,000mg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Manganese	5-50,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Molybdenum	1-2,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Nickel	1-50,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Potassium	0.25-2,000mg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
Selenium	1-1,000µg/l	Bore waters Leachates	ICP-MS	ISO17294-1:2006 & ISO17294-

				Potable waters Surface waters Trade wastes WWTP Effluent		2:2004/EPA W05
		Sodium	1-10,000mg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
		Strontium	10-10,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
		Thallium	0.2 - 1,000µg/l	Potable Waters Trade wastes Bore waters WWTP Effluent Surface water Leachate	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2016/EPA W05
		Total Hardness	4 - 16,600 mg/l CaCO ₃	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
		Uranium	0.2 - 1,000µg/l	Potable Waters Trade wastes Bore waters WWTP Effluent Surface water Leachate	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2016/EPA W05
		Vanadium	1-1,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
		Zinc	1-50,000µg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	ICP-MS	ISO17294-1:2006 & ISO17294- 2:2004/EPA W05
	EPA W18 ^{1 3 4}	Mercury	0.02 - 50µg/l Hg	Trade Wastes Bore waters Leachates Surface waters WWTP Effluent	ICP-MS	ISO 17294-1:2006, 17294-2:2004/EPA W18
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	EPA W04 ^{1 3 4}	BOD	1 - 100,000mg/l	Leachates Saline waters Surface waters Trade Wastes	DO Meter	ISO5815-1,- 2:2003/EPA W04
		cBOD	1 - 100,000mg/l	WWTP Effluent	DO Meter	ISO5815-1,- 2:2003/EPA W04
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	EPA W01 ^{1 3 4}	COD	10-100,000mg/l O ₂	Trade Wastes Surface waters Trade wastes WWTP Effluent	Digestion/Colorimetry	ISO15705:2002/EPA W01
766 Environmental testing (inc waters) - .05	EPA W06 ^{1 3 4}	Total Phosphorus	0.01-1,000mg/l P	Bore waters Leachates	Digestion/Spectrometry	IS EN ISO 6878:2004/ EPA

Inorganic				Surface waters Trade Wastes WWTP Effluent		W06
	EPA W07 ^{1 2 3 4}	Ammonia	0.02 - 10,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Chloride	2 - 50,000mg/l	Bore Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Nitrate	0.02 - 5,000mg/l N	Bore Leachates Surface waters Trade wastes WWTP Effluent	Calculation	ISO 15923- 1:2013/EPA W07
		Nitrite	0.004 - 50mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		o-Phosphate	0.01 - 1,000mg/l N	Bore Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Total Oxidised Nitrogen	0.2 - 5,000mg/l N	Bore Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
	EPA W11 ^{1 3 4}	Silica	0.1 - 200mg/l SiO ₂	Bore waters Saline waters Surface waters	Spectrometry	ISO 15923- 1:2013/EPA W11
	EPA W12 ^{1 2 3 4}	Fluoride	0.2 - 500mg/lF	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Ion Chromatography	EN ISO 10304- 1:2009/EPA W12
		Sulphate	2 - 20,000 mg/l SO ₄	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Ion Chromatography	EN ISO 10304- 1:2009/EPA W12
	EPA W15 ^{1 3 4}	Colour	5 - 1,000mg/l Pt/Co	Bore water Potable waters Saline waters Surface waters	Spectrometry	EN ISO 7887:2011/EPA W15
	EPA W16 ^{1 3 4}	Total Hardness	10 - 10,000 mg/l CaCO ₃	Bore waters Surface waters	Spectrometry	USA EPA 130.1/EPA W16
	EPA W17 ^{1 3 4}	Total Alkalinity	10 - 10,000 mg/l CaCO ₃	Bore waters Surface waters	Spectrometry	HMSO 0117516015, 1981/EPA W17
	EPA W19 ^{1 2 3 4}	Ammonia	0.01 - 10mg/lN	Saline waters Surface water	Spectrometry	Lachat Instrument Application/EPA W19
		o-Phosphate	0.005 - 10mg/lP	Saline waters Surface waters	Spectrometry	Lachat Instrument Application/EPA W19
		Total Oxidised Nitrogen	0.01 - 20mg/lN	Surface waters Saline waters	Spectrometry	Lachat Instrument Application/EPA

						W19
767 Physical test/measurement - .01 pH	EPA W09 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Leachates Saline Waters Surface waters Trade wastes WWTP Effluent	pH Meter	IS EN 10523:2012/EPA W09
767 Physical test/measurement - .02 Conductivity	EPA W08 ^{1 3 4}	Conductivity	15 - 100,000µS/cm	Bore waters Leachates Saline Waters Surface waters Trade wastes WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W08
767 Physical test/measurement - .03 Suspended Solids	EPA W03 ^{1 3 4}	Suspended Solids	4 - 100,000mg/l	Leachates Saline waters Surface waters Trade wastes WWTP Effluent	Gravimetry	IS EN 872:2005/EPA W03

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratories approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters / tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment / kits where the underlying methodology does not change

For further details please refer to the laboratories 'Master list of Flexible scope changes', available directly from the laboratory.

Chemical Testing

Category: B

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
767 Physical test/measurement - .01 pH	EPA W27 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	ISO 10523:2008/EPA W27
767 Physical test/measurement - .02 Conductivity		Conductivity	15 - 100,000µS/cm	Bore waters Surface waters WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W27

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Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	EPA W04 ^{1 3 4}	BOD	1 - 100,000mg/l	Leachates Surface waters Saline waters Trade wastes	DO Meter	ISO5815-1,-2:2003/EPA W04
		cBOD	1 - 100,000mg/l	WWTP Effluent	DO Meter	ISO5815-1,-2:2003/EPA W04
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	EPA W01 ^{1 3 4}	COD	10-100,000mg/l O ₂	Leachates Surface waters Trade Wastes WWTP Effluent	Digestion/Colorimetry	ISO15705:2002/EPA W01
766 Environmental testing (inc waters) - .04 Organic	EPA W22 ^{1 3 4}	Total Organic Carbon (as NPOC)	1 - 1000mg/l C	Bore waters Surface waters Trade wastes WWTP Effluent	Oxidation/IR Detection	ISO 8245:1999/EPA W22
	EPA W30 ^{1 2 3 4}	1,2,3-Trichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		1,2,4-Trichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		1,2-Dichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Benxene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Carbon Tetrachloride	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Chlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Chloroform	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Dichloromethane	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Hexachlorobutadiene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Naphthalene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		o-Xylene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Tetrachloride	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
Toluene	0.5 - 1000µg/l	Bore waters Surface waters	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30		

				Trade wastes		
		Trichloroethene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		x,p-Xylene	1.0 - 2000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
766 Environmental testing (inc waters) - .05 Inorganic	EPA W07 ^{1 2 3 4}	Ammonia	0.02 - 10,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923-1:2013/EPA W07
		Chloride	2 - 50,000mg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923-1:2013/EPA W07
		Nitrate	0.02 - 5,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Calculation	ISO 15923-1:2013/EPA W07
		Nitrite	0.004 - 50mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923-1:2013/EPA W07
		o-Phosphate	0.01 - 1,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923-1:2013/EPA W07
		Total Oxidised Nitrogen	0.2 - 5,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923-1:2013/EPA W07
		EPA W11 ^{1 3 4}	Silica	0.1 - 200mg/l SiO ₂	Bore waters Saline waters Surface waters	Spectrometry
	EPA W12 ^{1 2 3 4}	Fluoride	0.2 - 500mg/l F	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Ion Chromatography	EN ISO 10304-1:2009/EPA W12
		Sulphate	2 - 20,000 mg/l SO ₄	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Ion Chromatography	EN ISO 10304-1:2009/EPA W12
	EPA W15 ^{1 3 4}	Colour	5 - 1,000mg/l Pt/Co	Bore waters Potable waters Surface waters	Spectrometry	EN ISO 7887:2011/EPA W15
EPA W16 ^{1 3 4}	Total Hardness	10 - 10,000 mg/l CaCO ₃	Bore waters Potable waters	Spectrometry	USA EPA 130.1/EPA W16	

				Surface waters		
767 Physical test/measurement - .01 pH	EPA W09 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Leachates Potable waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	IS EN 10523:2012/EPA W09
767 Physical test/measurement - .02 Conductivity	EPA W08 ^{1 3 4}	Conductivity	15 - 100,000µS/cm	Bore waters Leachates Potable waters Saline waters Surface waters Trade wastes WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W08
767 Physical test/measurement - .03 Suspended Solids	EPA W03 ^{1 3 4}	Suspended Solids	4 - 100,000mg/l	Leachates Saline waters Surface waters Trade Wastes WWTP Effluent	Gravimetry	IS EN 872:2005/EPA W03
782 Workplace environment and hazards - .04 Respirable dust	AQM TO1/2	PM10	0.1 - 120 µg/m ³	Ambient Air	Gravimetry	EN 12341:1999 & EN 14907:2005/AQM TO1 & TO2
		PM2.5	0.1 - 120 µg/m ³	Ambient Air	Gravimetry	EN 12341:1999 & EN 14907:2005/AQM TO1 & TO2

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Note 1 - Range may be extended for the test

Note 2 – New parameters / tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment / kits where the underlying methodology does not change

For further details please refer to the laboratories 'Master list of Flexible scope changes', available directly from the laboratory.

Chemical Testing

Category: B

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
767 Physical test/measurement - .01 pH	EPA W27 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	ISO 10523:2008/EPA W27
767 Physical test/measurement - .02 Conductivity		Conductivity	15 - 100,000µS/cm	Bore waters Surface waters WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W27

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Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	EPA W04 ^{1 3 4}	BOD	1 - 100,000mg/l	Leachates Saline waters Surface waters Trade wastes	DO Meter	ISO5815-1,- 2:2003/EPA W04
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	EPA W01 ^{1 3 4}	COD	10-100,000mg/l O ₂	Leachates Surface waters Trade Wastes WWTP Effluent	Digestion/Colorimetry	ISO15705:2002/EPA W01
766 Environmental testing (inc waters) - .04 Organic	EPA W22 ^{1 3 4}	Total Organic Carbon (as NPOC)	1 - 1000mg/l C	Bore waters Surface waters Trade wastes WWTP Effluent	Oxidation/IR Detection	ISO 8245:1999/EPA W22
766 Environmental testing (inc waters) - .05 Inorganic	EPA W06 ^{1 3 4}	Total Phosphorus	0.01-1,000mg/l P	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Digestion/Spectrometry	IS EN ISO 6878:2004/ EPA W06
	EPA W07 ^{1 2 3 4}	Ammonia	0.02 - 10,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Chloride	2 - 50,000mg/l	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Nitrate	0.02 - 5,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Calculation	ISO 15923- 1:2013/EPA W07
		Nitrite	0.004 - 50mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		o-Phosphate	0.01 - 1,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Total Oxidised Nitrogen	0.2 - 5,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		EPA W10 ^{1 3 4}	Total Nitrogen	0.5 - 2,000mg/l N	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Digestion/Spectrometry
	EPA W11 ^{1 3 4}	Silica	0.1 - 200mg/l SiO ₂	Bore waters Saline waters	Spectrometry	ISO 15923- 1:2013/EPA W11

				Surface waters		
	EPA W15 ^{1 3 4}	Colour	5 - 1,000mg/l Pt/Co	Bore waters Potable waters Surface waters	Spectrometry	EN ISO 7887:2011/EPA W15
	EPA W16 ^{1 3 4}	Total Hardness	10 - 10,000 mg/l CaCO ₃	Bore waters Surface waters	Spectrometry	USA EPA 130.1/EPA W16
	EPA W17 ^{1 3 4}	Total Alkalinity	10 - 10,000 mg/l CaCO ₃	Bore waters Surface waters	Spectrometry	HMSO 0117516015, 1981/EPA W17
	EPA W24 ^{1 3 4}	Alkalinity	1 - 1000mg/l CaCO ₃	Bore waters Surface waters	Titration	ISO 9963- 1:1994/EPA W24
767 Physical test/measurement - .01 pH	EPA W09 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Leachates Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	IS EN 10523:2012/EPA W09
767 Physical test/measurement - .02 Conductivity	EPA W08 ^{1 3 4}	Conductivity	15 - 100,000µS/cm	Bore waters Leachates Saline waters Surface waters Trade wastes WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W08
767 Physical test/measurement - .03 Suspended Solids	EPA W03 ^{1 3 4}	Suspended Solids	4 - 100,000mg/l	Leachates Saline waters Surface waters Trade wastes WWTP Effluent	Gravimetry	IS EN 872:2005/EPA W03

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Chemical Testing

Category: B

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
767 Physical test/measurement - .01 pH	EPA W27 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	ISO 10523:2008/EPA W27
767 Physical test/measurement - .02 Conductivity		Conductivity	15 - 100,000µS/cm	Bore waters Surface waters WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W27

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Note 4 – Changes to equipment / kits where the underlying methodology does not change

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Chemical Testing

Category: A

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
766 Environmental testing (inc waters) - .02 Biochemical oxygen demand	EPA W04 ^{1 3 4}	BOD	1 - 100,000mg/l	Bore waters Leachates Saline waters Surface waters Trade wastes	DO Meter	ISO5815-1,- 2:2003/EPA W04
		cBOD	1 - 100,000mg/l	WWTP Effluent	DO Meter	ISO5815-1,- 2:2003/EPA W04
766 Environmental testing (inc waters) - .03 Chemical oxygen demand	EPA W01 ^{1 3 4}	COD	10-100,000mg/l O ₂	Leachates Surface waters Trade wastes WWTP Effluent	Digestion/Colorimetry	ISO15705:2002/EPA W01
766 Environmental testing (inc waters) - .04 Organic	EPA W22 ^{1 3 4}	Dissolved Organic Carbon	1 - 1000mg/l C	Bore Waters	Oxidation/IR Detection	ISO 8245:1999/EPA W22
	EPA W22 ^{1 3 4}	Total Organic Carbon (as NPOC)	1 - 1000mg/l C	Bore waters Surface waters Trade wastes WWTP Effluent	Oxidation/IR Detection	ISO 8245:1999/EPA W22
	EPA W30 ^{1 2 3 4}	1,2,3-Trichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		1,2,4-Trichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		1,2-Dichlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Benxene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Carbon Tetrachloride	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Chlorobenzene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Chloroform	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Dichloromethane	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Hexachlorobutadiene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Naphthalene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		o-Xylene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
Tetrachloride	0.5 - 1000µg/l	Bore waters	Purge and Trap/GC-	USA EPA		

				Surface waters Trade wastes	MS	524.2/EPA W30
		Toluene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		Trichloroethene	0.5 - 1000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
		x,p-Xylene	1.0 - 2000µg/l	Bore waters Surface waters Trade wastes	Purge and Trap/GC-MS	USA EPA 524.2/EPA W30
766 Environmental testing (inc waters) - .05 Inorganic	EPA W06 ^{1 3 4}	Total Phosphorus	0.01-1,000mg/l P	Bore waters Leachates Surface waters Trade wastes WWTP Effluent	Digestion/Spectrometry	IS EN ISO 6878:2004/ EPA W06
	EPA W07 ^{1 2 3 4}	Ammonia	0.02 - 10,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Chloride	2 - 50,000mg/l	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Nitrate	0.2 - 5,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Calculation	ISO 15923- 1:2013/EPA W07
		Nitrite	0.004 - 50mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		o-Phosphate	0.01 - 1,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		Total Oxidised Nitrogen	0.2 - 5,000mg/l N	Bore waters Leachates Potable waters Surface waters Trade wastes WWTP Effluent	Spectrometry	ISO 15923- 1:2013/EPA W07
		EPA W11 ^{1 3 4}	Silica	0.1 - 200mg/l SiO ₂	Bore waters Saline waters Surface waters	Spectrometry
	EPA W14 ^{1 3 4}	Turbidity	0.5 - 1,000 NTU	Bore waters Potable waters Saline waters Surface waters	Nephelometry	EN ISO 7027:2000/EPA W14
	EPA W15 ^{1 3 4}	Colour	5 - 1,000mg/l Pt/Co	Bore waters Potable waters Saline waters Surface waters	Spectrometry	EN ISO 7887:2011/EPA W15

	EPA W16 ^{1 3 4}	Total Hardness	10 - 10,000 mg/ CaCO ₃	Bore waters Potable waters Surface waters	Spectrometry	USA EPA 130.1/EPA W16
	EPA W17 ^{1 3 4}	Total Alkalinity	10 - 10,000 mg/ CaCO ₃	Bore waters Potable waters Surface waters	Spectrometry	HMSO 0117516015, 1981/EPA W17
	EPA W19 ^{1 2 3 4}	Ammonia	0.01 - 10mg/IN	Saline waters Surface waters	Spectrometry	Lachat Instrument Application/EPA W19
		o-Phosphate	0.005 - 10mg/IP	Saline waters Surface waters	Spectrometry	Lachat Instrument Application/EPA W19
	EPA W19 ^{1 2 3 4}	Total Oxidised Nitrogen	0.01 - 20mg/IN	Saline waters Surface waters	Spectrometry	Lachat Instrument Application/EPA W19
	EPA W24 ^{1 3 4}	Alkalinity	1 - 1000mg/l CaCO ₃	Bore waters Surface waters	Titration	ISO 9963- 1:1994/EPA W24
767 Physical test/measurement - .01 pH	EPA W09 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Leachates Potable waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	IS EN 10523:2012/EPA W09
767 Physical test/measurement - .02 Conductivity	EPA W08 ^{1 3 4}	Conductivity	15 - 100,000µS/cm	Bore waters Leachates Potable waters Saline waters Surface waters Trade wastes WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W08
767 Physical test/measurement - .03 Suspended Solids	EPA W03 ^{1 3 4}	Suspended Solids	4 - 100,000mg/l	Leachates Saline waters Surface waters Trade wastes WWTP Effluent	Gravimetry	IS EN 872:2005/EPA W03

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratories approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters / tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment / kits where the underlying methodology does not change

For further details please refer to the laboratories 'Master list of Flexible scope changes', available directly from the laboratory.

Chemical Testing

Category: B

Chemistry Field - Tests	Test name	Analyte	Range of measurement	Matrix	Equipment/technique	Standard reference/SOP
767 Physical test/measurement - .01 pH	EPA W27 ^{1 3 4}	pH	2 - 12 pH Units	Bore waters Saline waters Surface waters Trade wastes WWTP Effluent	pH Meter	ISO 10523:2008/EPA W27
767 Physical test/measurement - .02 Conductivity		Conductivity	15 - 100,000µS/cm	Bore waters Surface waters WWTP Effluent	Conductivity Meter	IS EN 27888:1993/EPA W27

The laboratory has been awarded flexible scope in the scope classifications as noted in the scope document and in accordance with the laboratories approved and documented procedures.

Note 1 - Range may be extended for the test

Note 2 – New parameters / tests may be added

Note 3 – New matrices may be added

Note 4 – Changes to equipment / kits where the underlying methodology does not change

For further details please refer to the laboratories 'Master list of Flexible scope changes', available directly from the laboratory.