

## Element Materials Technology Laboratory Accreditation

#### NOTES TO ACCOMPANY ALL SCHEDULES AND REPORTS

**EMT Job No.:** 23/3125

#### **SOILS and ASH**

Please note we are only MCERTS accredited (UK soils only) for sand, loam and clay and any other matrix is outside our scope of accreditation.

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation has been performed on clay, sand and loam, only samples that are predominantly these matrices, or combinations of them will be within our MCERTS scope. If samples are not one of a combination of the above matrices they will not be marked as MCERTS accredited.

It is assumed that you have taken representative samples on site and require analysis on a representative subsample. Stones will generally be included unless we are requested to remove them.

All samples will be discarded one month after the date of reporting, unless we are instructed to the contrary. Asbestos samples are retained for 6 months.

If you have not already done so, please send us a purchase order if this is required by your company.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

All analysis is reported on a dry weight basis unless stated otherwise. Limits of detection for analyses carried out on as received samples are not moisture content corrected. Results are not surrogate corrected. Samples are dried at 35°C ±5°C unless otherwise stated. Moisture content for CEN Leachate tests are dried at 105°C ±5°C. Ash samples are dried at 37°C ±5°C.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

Where a CEN 10:1 ZERO Headspace VOC test has been carried out, a 10:1 ratio of water to wet (as received) soil has been used.

% Asbestos in Asbestos Containing Materials (ACMs) is determined by reference to HSG 264 The Survey Guide - Appendix 2 : ACMs in buildings listed in order of ease of fibre release.

Sufficient amount of sample must be received to carry out the testing specified. Where an insufficient amount of sample has been received the testing may not meet the requirements of our accredited methods, as such accreditation may be removed.

Negative Neutralization Potential (NP) values are obtained when the volume of NaOH (0.1N) titrated (pH 8.3) is greater than the volume of HCI (1N) to reduce the pH of the sample to 2.0 - 2.5. Any negative NP values are corrected to 0.

The calculation of Pyrite content assumes that all oxidisable sulphides present in the sample are pyrite. This may not be the case. The calculation may be an overesitimate when other sulphides such as Barite (Barium Sulphate) are present.

#### **WATERS**

Please note we are not a UK Drinking Water Inspectorate (DWI) Approved Laboratory .

ISO17025 accreditation applies to surface water and groundwater and usually one other matrix which is analysis specific, any other liquids are outside our scope of accreditation.

As surface waters require different sample preparation to groundwaters the laboratory must be informed of the water type when submitting samples.

Where Mineral Oil or Fats, Oils and Grease is quoted, this refers to Total Aliphatics C10-C40.

#### STACK EMISSIONS

Where an MCERTS report has been requested, you will be notified within 48 hours of any samples that have been identified as being outside our MCERTS scope. As validation for Dioxins and Furans and Dioxin like PCBs has been performed on XAD-2 Resin, only samples which use this resin will be within our MCERTS scope.

Where appropriate please make sure that our detection limits are suitable for your needs, if they are not, please notify us immediately.

#### **DEVIATING SAMPLES**

All samples should be submitted to the laboratory in suitable containers with sufficient ice packs to sustain an appropriate temperature for the requested analysis. The temperature of sample receipt is recorded on the confirmation schedules in order that the client can make an informed decision as to whether testing should still be undertaken.

#### SURROGATES

Surrogate compounds are added during the preparation process to monitor recovery of analytes. However low recovery in soils is often due to peat, clay or other organic rich matrices. For waters this can be due to oxidants, surfactants, organic rich sediments or remediation fluids. Acceptable limits for most organic methods are 70 - 130% and for VOCs are 50 - 150%. When surrogate recoveries are outside the performance criteria but the associated AQC passes this is assumed to be due to matrix effect. Results are not surrogate corrected.

#### **DILUTIONS**

A dilution suffix indicates a dilution has been performed and the reported result takes this into account. No further calculation is required.

#### BI ANKS

Where analytes have been found in the blank, the sample will be treated in accordance with our laboratory procedure for dealing with contaminated blanks.

**EMT Job No.:** 23/3125

#### NOTE

Data is only reported if the laboratory is confident that the data is a true reflection of the samples analysed. Data is only reported as accredited when all the requirements of our Quality System have been met. In certain circumstances where all the requirements of the Quality System have not been met, for instance if the associated AQC has failed, the reason is fully investigated and documented. The sample data is then evaluated alongside the other quality control checks performed during analysis to determine its suitability. Following this evaluation, provided the sample results have not been effected, the data is reported but accreditation is removed. It is a UKAS requirement for data not reported as accredited to be considered indicative only, but this does not mean the data is not valid.

Where possible, and if requested, samples will be re-extracted and a revised report issued with accredited results. Please do not hesitate to contact the laboratory if further details are required of the circumstances which have led to the removal of accreditation.

Laboratory records are kept for a period of no less than 6 years.

#### REPORTS FROM THE SOUTH AFRICA LABORATORY

Any method number not prefixed with SA has been undertaken in our UK laboratory unless reported as subcontracted.

#### **Measurement Uncertainty**

Measurement uncertainty defines the range of values that could reasonably be attributed to the measured quantity. This range of values has not been included within the reported results. Uncertainty expressed as a percentage can be provided upon request.

#### **Customer Provided Information**

Sample ID and depth is information provided by the customer.

## ABBREVIATIONS and ACRONYMS USED

#	ISO17025 (UKAS Ref No. 4225) accredited - UK.
SA	ISO17025 (SANAS Ref No.T0729) accredited - South Africa
В	Indicates analyte found in associated method blank.
DR	Dilution required.
M	MCERTS accredited.
NA	Not applicable
NAD	No Asbestos Detected.
ND	None Detected (usually refers to VOC and/SVOC TICs).
NDP	No Determination Possible
SS	Calibrated against a single substance
SV	Surrogate recovery outside performance criteria. This may be due to a matrix effect.
W	Results expressed on as received basis.
+	AQC failure, accreditation has been removed from this result, if appropriate, see 'Note' on previous page.
>>	Results above calibration range, the result should be considered the minimum value. The actual result could be significantly higher.
*	Analysis subcontracted to an Element Materials Technology approved laboratory.
AD	Samples are dried at 35°C ±5°C
со	Suspected carry over
LOD/LOR	Limit of Detection (Limit of Reporting) in line with ISO 17025 and MCERTS
ME	Matrix Effect
NFD	No Fibres Detected
BS	AQC Sample
LB	Blank Sample
N	Client Sample
ТВ	Trip Blank Sample
ОС	Outside Calibration Range

**EMT Job No:** 23/3125

Test Method No.	Description	Prep Method No. (if appropriate)	Description	ISO 17025 (UKAS/S ANAS)	MCERTS (UK soils only)	Analysis done on As Received (AR) or Dried (AD)	Reported on dry weight basis
TM30	Determination of Trace Metals by ICP-OES (Inductively Coupled Plasma – Optical Emission Spectrometry): WATERS by Modified USEPA Method 200.7, Rev. 4.4, 1994; Modified EPA Method 6010B, Rev.2, Dec. 1996; Modified BS EN ISO 11885:2009: SOILS by Modified USEP 6010B, Rev.2, Dec. 1996; Modified EPA Method 3050B, Rev.2, Dec. 1996	PM14	Preparation of waters and leachates for metals by ICP OES/ICP MS. Samples are filtered for Dissolved metals, and remain unfiltered for Total metals then acidified				
ТМ37	2540D:1999 22nd Edition; VSS: USEPA 1684 (Jan 2001), USEPA 160.4 (1971) and SMEWW 2540E:1999 22nd Edition. Gravimetric determination of Total Suspended Solids (TSS) and Volatile Suspended Solids (VSS). Sample is filtered through a 1.5um pore size glass fibre filter and the resulting residue is dried and weighed at 105°C for TSS and ESSS (1985).	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.				
TM38	Soluble Ion analysis using Discrete Analyser. Modified US EPA methods: Chloride 325.2 (1978), Sulphate 375.4 (Rev.2 1993), o-Phosphate 365.2 (Rev.2 1993), TON 353.1 (Rev.2 1993), Nitrite 354.1 (1971), Hex Cr 7196A (1992), NH4+ 350.1 (Rev.2 1993) – All anions comparable to BS ISO 15923-1: 2013l	PM0	No preparation is required.	Yes			
TM58	APHA SMEWW 5210B:1999 22nd Edition. Comparible with ISO 5815:1989. Measurement of Biochemical Oxygen Demand. When cBOD (Carbonaceous BOD) is requested a nitrification inhibitor is added which prevents the oxidation of reduced forms of nitrogen, such as am	PM0	No preparation is required.	Yes			
ТМ73	Modified US EPA methods 150.1 (1982) and 9045D Rev. 4 - 2004) and BS1377-3:1990. Determination of pH by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			
ТМ76	Modified US EPA method 120.1 (1982). Determination of Specific Conductance by Metrohm automated probe analyser.	PM0	No preparation is required.	Yes			

# Water Sampling Results August 2019-February 2023

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location: Contact: Stephen Corrigan

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

	Stephen 0 19/13629	Jorngan				40ml vial, G= NaOH, HN=F	e, P=piastic	DOTTIE	
EMT Sample No.	1-3	4-6	7-9						
Sample ID	SW1	SW2	SW3						
Depth							Please se	e attached n	otes for all
COC No / misc								ations and a	
Containers	H P BOD	H P BOD	H P BOD						
Sample Date	21/08/2019	21/08/2019	21/08/2019						
Sample Type	Surface Water	Surface Water	Surface Water						
Batch Number	1	1	1						Method
Date of Receipt	23/08/2019	23/08/2019	23/08/2019				LOD/LOR	Units	No.
Total Phosphorus	41	39	47				<5	ug/l	TM30/PM14
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	6.5 <0.2	7.7 <0.2	8.5 <0.2				<0.3 <0.2	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02				<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	0.04				<0.03	mg/l	TM38/PM0
							0.00		TM00/5:::
Ammoniacal Nitrogen as NH3 # Ammoniacal Nitrogen as NH4 #	<0.03 <0.03	<0.03 <0.03	<0.03 <0.03				<0.03 <0.03	mg/l mg/l	TM38/PM0 TM38/PM0
Ammoniacai Nillogen as Ni 14	<b>VO.03</b>	<b>VO.03</b>	<b>VO.03</b>				<b>CO.03</b>	ilig/i	TIVIOO/T IVIO
BOD (Settled) #	<1	<1	<1				<1	mg/l	TM58/PM0
Total Suspended Solids #	<10	<10	<10				<10	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 19/14666 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	19/14666				$H=H_2SO_4, Z$	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9								
Sample ID	SW1	SW2	SW3								
Depth									Diana		
COC No / misc										e attached n ations and a	
Containers	H P BOD	H P BOD	H P BOD								
Sample Date	10/09/2019 10:00	10/09/2019 10:30	10/09/2019 11:00								
Sample Type	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1								Method
Date of Receipt	11/09/2019	11/09/2019	11/09/2019						LOD/LOR	Units	No.
Total Phosphorus	44	36	25						<5	ug/l	TM30/PM14
4											
Chloride #	7.8	7.8	6.4						<0.3	mg/l	TM38/PM0 TM38/PM0
Nitrate as NO3 # Nitrite as NO2 #	1.2 <0.02	<0.2 <0.02	<0.2 <0.02						<0.2 <0.02	mg/l mg/l	TM38/PM0
Ortho Phosphate as PO4	0.03	<0.03	<0.02						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled) #	1	1	<1						<1	mg/l	TM58/PM0
Total Suspended Solids #	<10	<10	<10						<10	mg/l	TM37/PM0
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Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 19/18001 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	19/18001				$H=H_2SO_4$ ,	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9								
Sample ID	SW1	SW2	SW3								
Depth									Diago ao	e attached n	otoo for all
COC No / misc										ations and a	
Containers	H P BOD	H P BOD	H P BOD								
Sample Date	30/10/2019 10:00	30/10/2019 10:30	30/10/2019 11:00								
Sample Type	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1								Method
Date of Receipt	04/11/2019	04/11/2019	04/11/2019						LOD/LOR	Units	No.
Total Phosphorus	34	45	47						<5	ug/l	TM30/PM14
Chloride #	6.6	7.7	8.4						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 #	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	<1	<1						<1	mg/l	TM58/PM0
Total Suspended Solids #	<10	<10	<10						<10	mg/l	TM37/PM0
				<u> </u>							
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Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 19/18687 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	19/18687				$H=H_2SO_4$ , 2	Z=Znac, N=	Naoh, HN=	:HINU3			
EMT Sample No.	1-3	4-6	7-9								
Sample ID	SW1	SW2	SW3								
Depth									Diagram	444	
COC No / misc										e attached nations and a	
Containers		H P BOD	H P BOD								
Sample Date											
Sample Type											
Batch Number		1	1								Method
Date of Receipt	15/11/2019	15/11/2019	15/11/2019						LOD/LOR	Units	No.
Total Phosphorus	29	27	38						<5	ug/l	TM30/PM14
Chloride #	9.4	9.8	10.2						<0.3	mg/l	TM38/PM0
Nitrate as NO3 # Nitrite as NO2 #	<0.2 <0.02	<0.2 <0.02	<0.2 <0.02						<0.2 <0.02	mg/l mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
,										3	
Ammoniacal Nitrogen as NH3#	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	1	1						<1	mg/l	TM58/PM0
Total Suspended Solids #	<10	<10	<10						<10	mg/l	TM37/PM0
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Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 19/20592 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

Chloride # 12.7 14.3 14.9	EMT Job No:	19/20592				H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HN0₃	_		
Depth   COC No / misc   H P BOD	EMT Sample No.	1-3	4-6	7-9								
COC No / misc   Containers   H P BOD   H P B	Sample ID	SW1	SW2	SW3								
COC No / misc   Containers   H P BOD   H P B	Depth									Di		
Sample Date   12/12/2019 10:00   12/12/2019 10:00   12/12/2019 10:00   12/12/2019 10:00   12/12/2019 10:00   12/12/2019   10/12/2019												
Sample Type   Surface Water   Surface Water	Containers	H P BOD	H P BOD	H P BOD								
Batch Number   1	Sample Date	12/12/2019 10:00	12/12/2019 10:30	12/12/2019 11:00								
Batch Number   1	Sample Type	Surface Water	Surface Water	Surface Water								
Date of Receipt   16/12/2019												Marked
Total Phosphorus 33 33 35 35 35 35 35 35 35 35 35 35 35										LOD/LOR	Units	
Nitrate as NO3	Total Phosphorus									<5	ug/l	TM30/PM14
Nitrate as NO3												
Nitrite as NO2	Chloride #											TM38/PM0
Ortho Phosphate as PO4												
Ammoniacal Nitrogen as NH3												
Ammoniacal Nitrogen as NH4	Crano i nospilate as PO4	\U.U3	\U.U3	\U.U3						\U.U3	mg/I	TIVIOO/PIVIO
3OD (Settled) * <1 <1 <1	Ammoniacal Nitrogen as NH3 #	0.08	0.04	<0.03						<0.03	mg/l	TM38/PM0
Electrical Conductivity @ 25C # 51 60 64	Ammoniacal Nitrogen as NH4#	0.09	0.04	0.03						<0.03	mg/l	TM38/PM0
Electrical Conductivity @ 25C # 51 60 64	_											
oH# 6.27 5.21 5.14 <0.01 pH units TM73/PM0												
		-	-	-							3	
												oxdot

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill

**EMT Job No:** 20/1062 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

EWI JOD NO:	20/1062				 	H=H <sub>2</sub> SO <sub>4</sub> , A	L-ZIIAC, IN-	 -111103	_		
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW1	SW2	SW3	SW4							
Depth									Diagon	a attached n	otoo for all
COC No / misc										e attached n ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date											
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1							Method
Date of Receipt	24/01/2020	24/01/2020	24/01/2020	24/01/2020					LOD/LOR	Units	No.
Total Phosphorus	34	39	34	29					<5	ug/l	TM30/PM14
Chloride#	14.1	15.2	15.6	13.9					<0.3	mg/l	TM38/PM0
Nitrate as NO3 * Nitrite as NO2 *	<0.2 <0.02	0.4 <0.02	<0.2 <0.02	<0.2 <0.02					<0.2 <0.02	mg/l mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
										. J.	
Ammoniacal Nitrogen as NH3#	0.05	<0.03	<0.03	0.05					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.05	<0.03	<0.03	0.05					<0.03	mg/l	TM38/PM0
DOD (0 - H - 1) #	-1	1	-1	-4					-1	ma/l	TM58/PM0
BOD (Settled) # Electrical Conductivity @25C #	<1 60	64	<1 67	<1 64					<1 <2	mg/l uS/cm	TM76/PM0
pH#	5.70	6.02	5.95	6.50					<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10					<10	mg/l	TM37/PM0
		<u> </u>									

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location:

Contact: Owen Cahill

EMT Job No: 20/3124 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

EMT Job No:	20/3124					$H=H_2SO_4$ , 2	Z=ZNAC, N=	Naoh, HN=	=HINU3			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	otos for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	32	38	36	47						<5	ug/l	TM30/PM14
rotar i noopnorae	02									10	ug,.	
Chloride #	17.5	19.4	19.7	17.3						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
_												
BOD (Settled)#	<1 66	<1 72	<1 79	<1 63						<1	mg/l	TM58/PM0 TM76/PM0
Electrical Conductivity @25C # pH #	7.25	5.27	4.60	5.63						<2 <0.01	uS/cm pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10						<10	mg/l	TM37/PM0
		•	•	•	•	•	•	•	•	•		

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location:

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	Owen Cal 20/4765	nill					40ml vial, G= NaOH, HN=H	-	e, P=plastic	bottle	
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW1	SW2	SW3	SW4							
Depth									Please se	e attached n	otes for all
COC No / misc										ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date	24/03/2020 10:00	24/03/2020 10:30	24/03/2020 11:00	24/03/2020 11:30							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1				ľ	100#00	11.50	Method
Date of Receipt	27/03/2020	27/03/2020	27/03/2020	27/03/2020					LOD/LOR	Units	No.
Total Phosphorus	35	30	35	42					<5	ug/l	TM30/PM14
											T1 100 (D1 10
Chloride # Nitrate as NO3 #	16.1 0.2	17.7 0.3	18.2 1.5	16.1 5.2					<0.3 <0.2	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02	0.05					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4#	<0.06	<0.06	<0.06	<0.06					<0.06	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 #	<0.03	<0.03	0.13	0.42					<0.03	ma/l	TM38/PM0
Ammoniacal Nitrogen as NH3*  Ammoniacal Nitrogen as NH4*	<0.03	<0.03	0.13	0.42					<0.03	mg/l mg/l	TM38/PM0
										3	
BOD (Settled)#	<1	<1	<1	<1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C # pH#	53	76	74	75					<2	uS/cm	TM76/PM0 TM73/PM0
рн " Total Suspended Solids <sup>#</sup>	6.72 <10	6.26 <10	6.65 <10	6.88 <10					<0.01 <10	pH units mg/l	TM37/PM0
		-	-						-	3	
-								·			

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location: Contact: Stephen Corrigan

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	20/5529	Corrigan			Liquids/pro		-	e, r –piastic	bottle	
EMT Sample No.	1-3	4-6	7-9							
Sample ID	SW1	SW2	SW4							
Depth	I							Please se	e attached n	otes for all
COC No / misc									ations and a	
Containers	H P BOD	H P BOD	H P BOD							
Sample Date	22/04/2020	22/04/2020	22/04/2020							
Sample Type	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1							Method
Date of Receipt	24/04/2020	24/04/2020	24/04/2020					LOD/LOR	Units	No.
Total Phosphorus	26	28	33					<5	ug/l	TM30/PM14
Chloride #	15.7	16.9	13.6					<0.3	mg/l	TM38/PM0
Nitrate as NO3 * Nitrite as NO2 *	<0.2 <0.02	<0.2 <0.02	30.8 0.31					<0.2 <0.02	mg/l mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4#	<0.06	<0.06	<0.06					<0.06	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	0.04	<0.03	1.80					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.04	0.03	1.91					<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	60	71	167					<2	uS/cm	TM76/PM0
pH#	6.95	7.29	7.57					<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10					<10	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 20/6492 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

Person one attached   Sample Ro	
Depth   COC No / misc   Containers   H P BOD   Sample Date   Sample Date   Surface Water   Surface W	
COC No / misc   Containers   H P BOD   Sample Date   2005/2000 10:00   2005/2000 11:00   2005/2000   20/05/2000   20	
COC No / misc	otoo for all
Sample Date   2005/2020 10:00   2005/2020 10:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/202	
Sample Date   2005/2020 10:00   2005/2020 10:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/2020 11:00   2005/202	
Batch Number   1	
Batch Number   1	
Date of Receipt   22/05/2020	Mathad
Total Phosphorus 30 25 37 38	Method No.
Nitrate as NO3 #	TM30/PM14
Nitrate as NO3 #	
Nitrite as NO2 #	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4         <0.03	TM38/PM0
Ammoniacal Nitrogen as NH4	TM38/PM0
Ammoniacal Nitrogen as NH4	
BOD (Settled) # <1 <1 <1 <1 <1 <1	TM38/PM0 TM38/PM0
Electrical Conductivity @25C # 37 39 42 63	TIVI38/PIVIU
pH# 5.66 6.06 6.29 6.55 < 0.01 pH units	TM58/PM0
	TM76/PM0
Total Suspended Solids* <10 <10 <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10   <10	TM73/PM0
	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill

**EMT Job No:** 20/8522 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

EMT Job No:	20/8522					$H=H_2SO_4, \lambda$	Z=ZnAc, N=	NaOH, HN=	:HN0₃			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	otos for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	26	32	45	43						<5	ug/l	TM30/PM14
	-	-									- 3	
Chloride #	7.1	9.5	11.1	9.3						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 * Ortho Phosphate as PO4 *	<0.02	<0.02	<0.02 <0.06	<0.02 <0.06						<0.02	mg/l	TM38/PM0 TM38/PM0
Ormo Priospriate as PO4	0.08	<0.06	<0.00	<0.06						<0.06	mg/l	1 IVI36/PIVIU
Ammoniacal Nitrogen as NH3#	<0.03	0.05	0.05	0.05						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.03	0.05	0.05	0.05						<0.03	mg/l	TM38/PM0
**************************************												T1 150 (D1 10
BOD (Settled) # Electrical Conductivity @25C #	<1 38	<1 50	<1 57	<1 50						<1 <2	mg/l uS/cm	TM58/PM0 TM76/PM0
pH#	5.69	5.30	5.11	6.03						<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10						<10	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

20/10507

Reference: 190501

EMT Job No:

Location:Meenbog Wind FarmContact:Stephen Corrigan

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	20/10507				 	H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZNAC, N=	naoh, hin=	:IIIVU3	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please so	e attached n	otes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	06/08/2020	06/08/2020	06/08/2020	06/08/2020								
Sample Type												
Batch Number	1	1	1	1								Method
Date of Receipt	06/08/2020	06/08/2020	06/08/2020	06/08/2020						LOD/LOR	Units	No.
Total Phosphorus	41	28	57	43						<5	ug/l	TM30/PM14
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	6.3 <0.2	4.7	7.7 <0.2	6.8						<0.3 <0.2	mg/l	TM38/PM0 TM38/PM0
Nitrite as NO3	<0.2	<0.2 <0.02	<0.2	<0.2						<0.02	mg/l mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	0.03	0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.03	<0.03	0.04	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	0.04	0.03						<0.03	mg/l	TM38/PM0
BOD (Settled)#	1	1	2	1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	35	26	43	42						<2	uS/cm	TM76/PM0
pH#	5.54	5.83	5.39	6.34						<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10						<10	mg/l	TM37/PM0
	•	•	•		•							

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 20/11535 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	20/11535				 	H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=Znac, N=	naoh, hin=	:HINU3	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	ntes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	26/08/2020 10:00	26/08/2020 10:30	26/08/2020 11:00	26/08/2020 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	28/08/2020	28/08/2020	28/08/2020	28/08/2020						LOD/LOR	Units	No.
Total Phosphorus	32	47	59	52						<5	ug/l	TM30/PM14
Chloride #	4.0	5.4	6.3	6.1						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	0.03	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 *	<0.03	<0.03	0.04	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	0.04	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	29	35	41	39						<2	uS/cm	TM76/PM0
pH#	6.08	5.48	5.33	6.36						<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10						<10	mg/l	TM37/PM0
		<u> </u>		<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>			

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Location: Meenbog Wind Farm

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

	Owen Cal 20/13576	1111					40ml vial, G=glas NaOH, HN=HN0 <sub>3</sub>		STIC DOTTIE	
EMT Sample No.	1-3	4-6	7-9	10-12						
Sample ID	SW1	SW2	SW3	SW4						
Depth								Please	see attached	notes for all
COC No / misc									eviations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD						
Sample Date	01/10/2020 11:30	01/10/2020 11:00	01/10/2020 10:30	01/10/2020 10:00						
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water						
Batch Number	1	1	1	1						Method
Date of Receipt	05/10/2020	05/10/2020	05/10/2020	05/10/2020				LOD/LO	R Units	No.
Total Phosphorus	24	46	63	42				<5	ug/l	TM30/PM14
#										
Chloride # Nitrate as NO3 #	6.5 <0.2	8.0 <0.2	9.0	8.1 <0.2				<0.3 <0.2	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02				<0.02		TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03				<0.03	mg/l	TM38/PM0
#	0.00	0.04	0.05	0.04				0.00		T1 100 /D1 10
Ammoniacal Nitrogen as NH3 # Ammoniacal Nitrogen as NH4 #	<0.03 <0.03	0.04	0.05 0.05	0.04				<0.03	-	TM38/PM0 TM38/PM0
Ammoniacai Nillogen as Ni 14	10.00	0.01	0.00	0.01				10.00	g/.	111100/11110
BOD (Settled)#	<1	<1	<1	<1				<1	mg/l	TM58/PM0
Electrical Conductivity @25C #	39	43	57	51				<2	uS/cm	TM76/PM0
pH <sup>#</sup> Total Suspended Solids <sup>#</sup>	6.60 <10	5.98 <10	6.20 <10	6.53 <10				<0.01	-	TM73/PM0 TM37/PM0
Total Suspended Solids	<10	<10	<10	<10				<10	mg/l	TM37/PM0
										-
										-

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill

**EMT Job No:** 20/15079

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	20/15079					H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HNU <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Diagona		ataa faa all
COC No / misc										abbrevi	e attached nations and a	cronyms
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	37	46	65	40						<5	ug/l	TM30/PM14
	-										- 3	
Chloride #	8.1	9.0	9.3	8.7						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	0.6	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 # Ortho Phosphate as PO4	<0.02 <0.03	<0.02 <0.03	<0.02 0.03	<0.02 <0.03						<0.02 <0.03	mg/l mg/l	TM38/PM0 TM38/PM0
S. a. o i noophate as i O+	-0.00	-0.00	0.00	-0.00						-0.00	g/i	.10100/1 1010
Ammoniacal Nitrogen as NH3 #	<0.03	<0.03	0.05	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	0.03	<0.03	0.05	0.04						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C #	48	53	51	48						<2	uS/cm	TM76/PM0
pH#	6.13	6.68	6.21	6.31						<0.01	pH units	TM73/PM0
Total Suspended Solids #	<10	<10	10	<10						<10	mg/l	TM37/PM0
												-
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	1		

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Location: Meenbog Wind Farm

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	Owen Cal 20/16914	ווור					40ml vial, G= NaOH, HN=F	-	e, P=plastic	bottle	
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW1	SW2	SW3	SW4							
Depth									Please se	e attached n	otes for all
COC No / misc										ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date	30/11/2020 10:00	30/11/2020 10:30	30/11/2020 11:00	30/11/2020 11:30							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1					1 OD# OD	l laita	Method
Date of Receipt	02/12/2020	02/12/2020	02/12/2020	02/12/2020					LOD/LOR	Units	No.
Total Phosphorus	27	42	29	50					<5	ug/l	TM30/PM14
011#	F 2	6.4	6.7	6.7					40.0	/I	TM 420/DM 40
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	5.2 <0.2	6.4 <0.2	6.7 <0.2	6.7 <0.2					<0.3 <0.2	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	0.03					<0.03	mg/l	TM38/PM0
Ammonio od Nikasa sa sa Nika #	n ne	0.04	n ne	<0.03					<0.03	ma/l	TM38/PM0
Ammoniacal Nitrogen as NH3 * Ammoniacal Nitrogen as NH4 *	0.06	0.04	0.06	<0.03					<0.03	mg/l mg/l	TM38/PM0
, annonaca i in egon de i i i										3	
BOD (Settled)#	<1	<1	<1	1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	28	34	44	37					<2	uS/cm	TM76/PM0
pH <sup>#</sup> Total Suspended Solids <sup>#</sup>	5.58 <10	5.96 68	6.57 <10	6.24 <10					<0.01 <10	pH units mg/l	TM73/PM0 TM37/PM0
Total Gusporidou Golius										9	11110171 1110
				I	1			I			l

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

**EMT Job No:** 20/18234 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	20/18234					$H=H_2SO_4, \lambda$	∠=∠nAc, N=	NaOH, HN=	:HNU <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Diagram		
COC No / misc											e attached n ations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date				16/12/2020 11:30								
Sample Type												
Batch Number	1	1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	13	18	29	14						<5	ug/l	TM30/PM14
	-	-									- 3	
Chloride #	6.6	8.0	8.4	7.2						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 # Ortho Phosphate as PO4	<0.02 0.12	<0.02 <0.03	<0.02 <0.03	<0.02 <0.03						<0.02 <0.03	mg/l mg/l	TM38/PM0 TM38/PM0
S.a.o i nospiidio do i O4	0.12	10.00	10.00	10.00						30.00	mg/i	71VIGG/1 IVIO
Ammoniacal Nitrogen as NH3 #	0.05	0.04	0.04	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	0.05	0.04	0.04	0.04						<0.03	mg/l	TM38/PM0
BOD (Settled) #	1	1	1	-1						-4	ma/l	TM58/PM0
Electrical Conductivity @25C#	33	38	1 42	<1 38						<1 <2	mg/l uS/cm	TM76/PM0
pH#	5.96	5.91	5.93	6.25						<0.01	pH units	TM73/PM0
Total Suspended Solids	4	5	7	8						<1	mg/l	TM37/PM0
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		l

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meembog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

**EMT Job No:** 21/29 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/29					H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZNAC, N=	inaon, nin=	:INU3	_		
EMT Sample No.	1-2	3-4	5-6	7-8	9-10							
Sample ID	SW1	SW2	SW3	SW4	SE3							
Depth										Please se	e attached n	otes for all
COC No / misc											ations and a	
Containers	HР	HР	ΗP	ΗP	ΗP							
Sample Date	27/12/2020 10:00	27/12/2020 10:30	27/12/2020 11:00	27/12/2020 11:30	27/12/2020 12:00							
Sample Type	Surface Water											
Batch Number	1	1	1	1	1							Method
Date of Receipt	05/01/2021	05/01/2021	05/01/2021	05/01/2021	05/01/2021					LOD/LOR	Units	No.
Total Phosphorus	7	16	25	10	39					<5	ug/l	TM30/PM14
Chloride #	9.5	10.6	11.0	11.0	10.9					<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	<0.2	<0.2	<0.2					<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	0.03	<0.03	0.06					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 #	<0.03	<0.03	<0.03	<0.03	0.08					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	<0.03	<0.03	<0.03	0.03	0.08					<0.03	mg/l	TM38/PM0
_												
BOD (Settled)#	<1	<1	<1	<1	<1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C # pH#	42 5.80	46 5.41	53 6.11	50 6.06	48 5.56					<2 <0.01	uS/cm pH units	TM76/PM0 TM73/PM0
Total Suspended Solids #	<10	<10	<10	<10	<10					<10	mg/l	TM37/PM0
												}
												<u> </u>
												<del>                                     </del>

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

**EMT Job No:** 21/1283 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/1283					H=H <sub>2</sub> SO <sub>4</sub> ,	Z=ZnAc, N	=NaOH, HN	=HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	otes for all
COC No / misc											ations and ac	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date				28/01/2021 11:30						1		
-												
Sample Type												
Batch Number	1	1	1	1						LOD/LOR	Units	Method No.
Date of Receipt												
Total Phosphorus	6	18	26	18						<5	ug/l	TM30/PM14
Chloride#	5.5	6.4	6.8	6.3						<0.3	mg/l	TM38/PM0
Nitrate as NO3 <sup>#</sup>	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	0.03						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	29	33	36	58						<2	uS/cm	TM76/PM0
pH#	6.09	5.76	5.99	7.09						<0.01	pH units	TM73/PM0
Total Suspended Solids	3	4	8	8						<1	mg/l	TM37/PM0
	<u> </u>	i	i	1	1	i		i	i	1		

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

**Location:** Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

**EMT Job No:** 21/4570 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/4570					$H=H_2SO_4, A$	Z=ZnAc, N=	:NaOH, HN=	HINU <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	otes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	25/03/2021 10:00	25/03/2021 10:30	25/03/2021 11:00	25/03/2021 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	29/03/2021	29/03/2021	29/03/2021	29/03/2021						LOD/LOR	Units	No.
Total Phosphorus	9	16	25	10						<5	ug/l	TM30/PM14
Chloride #	0.0	0.0	40.0	0.0						.0.0	/1	TM38/PM0
Chloride " Nitrate as NO3 #	8.6 <0.2	9.6	10.2 0.4	9.2						<0.3 <0.2	mg/l mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
A	<0.03	<0.03	0.05	0.07						-0.00	m = #	TM38/PM0
Ammoniacal Nitrogen as NH3 * Ammoniacal Nitrogen as NH4 *	<0.03	<0.03	0.05 0.05	0.07						<0.03 <0.03	mg/l mg/l	TM38/PM0
7 mmomasa masgan as mm											3	
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	44	51	57	60						<2	uS/cm	TM76/PM0
pH#	7.01	6.87	7.37	7.73						<0.01	pH units	TM73/PM0
Total Suspended Solids	<1	3	6	7						<1	mg/l	TM37/PM0
	l		I.	1	1	1						

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report : Liquid

**EMT Job No:** 21/6912 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/6912					H=H <sub>2</sub> SO <sub>4</sub> ,	Z=ZnAc, N=	:NaOH, HN=	=HN0 <sub>3</sub>	_		
EMT Sample No.	1-3	4-6	7-9	10-12						1		
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	notes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	30/04/2021	30/04/2021	30/04/2021	30/04/2021								
Sample Type										l		
Batch Number	1	1	1	1								
										LOD/LOR	Units	Method No.
Date of Receipt Total Phosphorus	6	18	10/05/2021 32	10/05/2021						<5	/1	TM30/PM14
Total Filosphorus	0	10	32	11						2.5	ug/l	11VI30/F1VI14
Chloride #	7.9	9.8	10.3	9.1						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	0.3	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2 #	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 *	<0.03	0.09	<0.03	0.09						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.03	0.10	0.03	0.09						<0.03	mg/l	TM38/PM0
											3	
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	46	64	66	71						<2	uS/cm	TM76/PM0
pH#	7.00	6.89	6.92	6.95						<0.01	pH units	TM73/PM0
Total Suspended Solids	4	4	8	3						<1	mg/l	TM37/PM0
		•			•							

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

**Location:** Meenbog Wind Farm

Contact: Owen Cahill Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

**EMT Job No:** 21/8222 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/8222				 	H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										DI		
COC No / misc											e attached nations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date		28/05/2021 10:30		28/05/2021 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	01/06/2021	01/06/2021	01/06/2021	01/06/2021						LOD/LOR	Units	No.
Total Phosphorus	6	14	17	14						<5	ug/l	TM30/PM14
Chloride #	6.8	8.0	8.7	8.0						<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 #	0.04	0.05	<0.03	0.05						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	0.04	0.05	<0.03	0.05						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	38	45	54	62						<2	uS/cm	TM76/PM0
pH#	6.77	6.65	6.92	6.50						<0.01	pH units	TM73/PM0
Total Suspended Solids	2	11	4	1						<1	mg/l	TM37/PM0
												-
												-

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location:

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle 21/10183 EMT Job No:

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMI JOD NO:	21/10163				 	Π=Π <sub>2</sub> SO <sub>4</sub> , 2	L-ZIIAC, IN-	inaori, riin-	111103	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Plaasa sa	e attached n	otes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	30/06/2021 10:00	30/06/2021 10:30	30/06/2021 11:00	30/06/2021 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	05/07/2021	05/07/2021	05/07/2021	05/07/2021						LOD/LOR	Units	No.
Total Phosphorus	7	15	16	25						<5	ug/l	TM30/PM14
Chloride #	6.2	8.0	8.7	9.4						<0.3	mg/l	TM38/PM0
Nitrate as NO3 # Nitrite as NO2 #	<0.2	<0.2 <0.02	<0.2 <0.02	<0.2						<0.2 <0.02	mg/l mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<0.02	<0.02	<0.02	<0.02						<0.03	mg/l	TM38/PM0
											-	
Ammoniacal Nitrogen as NH3#	0.04	<0.03	0.07	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.04	<0.03	0.07	0.04						<0.03	mg/l	TM38/PM0
BOD (Settled) #	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C #	37	48	73	59						<2	uS/cm	TM76/PM0
pH#	7.91	7.31	7.19	7.12						<0.01	pH units	TM73/PM0
Total Suspended Solids	<1	7	7	7						<1	mg/l	TM37/PM0
		l										

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Location: Meenbog Wind Farm Killian McGovern Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	Killian Mc 21/11620	Govern					40ml vial, G=glas NaOH, HN=HN0		P=plastic	bottle	
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW1 (LIGHT)	SW1 (DARK)	SW3	SW4							
Depth									Please see	e attached n	otes for all
COC No / misc										ations and ac	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date	28/07/2021	28/07/2021	28/07/2021 11:00	28/07/2021 11:30							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1					00# 00	11.20	Method
Date of Receipt	30/07/2021	30/07/2021	30/07/2021	30/07/2021				1	.OD/LOR	Units	No.
Total Phosphorus	13	35	40	22					<5	ug/l	TM30/PM14
#				40.0							T1 100 (D1 10
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	7.2 <0.2	9.7	12.2 <0.2	10.3					<0.3	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	0.03	0.04	0.03					<0.03	mg/l	TM38/PM0
	.0.02	0.04	.0.02	0.00					.0.02	/	TM20/DM0
Ammoniacal Nitrogen as NH3 # Ammoniacal Nitrogen as NH4 #	<0.03	0.04	<0.03	0.08					<0.03	mg/l mg/l	TM38/PM0 TM38/PM0
/ IIIII ogon ao m										3	
BOD (Settled) #	<1	<1	<1	<1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	54	65	88	91					<2	uS/cm	TM76/PM0
pH <sup>#</sup> Total Suspended Solids	7.44	6.98	7.21	7.33 6					<0.01	pH units mg/l	TM73/PM0 TM37/PM0
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McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind farm Location:

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Report: Liquid

EMT Job No: 21/15460 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/15460				 	H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HN0₃	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Division		
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number												
	1	1	1	1						LOD/LOR	Units	Method No.
Date of Receipt  Total Phosphorus	8									a.E.	/1	TM20/DM44
Total Phosphorus	8	23	30	18						<5	ug/l	TM30/PM14
Chloride#	6.1	7.0	7.8	6.9						<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	1.3	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	0.04	0.04	0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Dissolved Oxygen	9	9	9	9						<1	mg/l	TM58/PM0
Electrical Conductivity @25C # pH #	32 5.29	40 5.60	48 5.64	47 7.16						<2 <0.01	uS/cm pH units	TM76/PM0 TM73/PM0
Total Suspended Solids	3	6	5	3						<1	mg/l	TM37/PM0
	-	-	-	-								

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm
Contact: Killian McGovern
EMT Job No: 21/17078

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/17078					H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth												
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	7	29/10/2021	29/10/2021	12						<5	ug/l	TM30/PM14
Total i nospriorus	,	20	22	12						1,5	ugn	TWOON WITH
Chloride #	4.3	5.2	5.8	5.1						<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02 <0.03	<0.02	<0.02 <0.03	<0.02 <0.03						<0.02 <0.03	mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<b>~</b> 0.03	0.03	~U.U3	<b>~</b> U.U3						\U.U3	mg/l	I IVI36/PIVIU
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.03	<0.03	0.04	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	<0.03	0.03	0.04	0.04						<0.03	mg/l	TM38/PM0
DOD (0.44.1)#	-4	-4	-4	-4								T1.450/D1.40
BOD (Settled) # Electrical Conductivity @25C #	<1 30	<1 36	<1 42	<1 69						<1 <2	mg/l uS/cm	TM58/PM0 TM76/PM0
pH#	6.13	5.96	5.98	6.97						<0.01	pH units	TM73/PM0
Total Suspended Solids	3	<1	<1	<1						<1	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill EMT Job No: 21/19285

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	21/19285					H=H <sub>2</sub> SO <sub>4</sub> , 2	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-8	9-11								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Diagram		-4 11
COC No / misc											e attached nations and a	
Containers	H P BOD	H P BOD	H BOD	H P BOD								
Sample Date	30/11/2021 10:00	30/11/2021 10:00	30/11/2021 10:00	30/11/2021 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	06/12/2021	06/12/2021	06/12/2021	06/12/2021						LOD/LOR	Units	No.
Total Phosphorus	7	13	24	15						<5	ug/l	TM30/PM14
Chloride <sup>#</sup>	40.5	44.0	44.0	44.5						10.2	/I	TM38/PM0
Nitrate as NO3#	12.5 <0.2	11.9 <0.2	11.8 <0.2	11.5 <0.2						<0.3 <0.2	mg/l mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4#	<0.06	<0.06	<0.06	<0.06						<0.06	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.03	<0.03	<0.03	0.05						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	0.05						<0.03	mg/l	TM38/PM0
_												
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C # pH #	67 7.53	64 6.56	60 6.26	68 6.53						<2 <0.01	uS/cm pH units	TM76/PM0 TM73/PM0
Total Suspended Solids#	<10	<10	<10	<10						<10	mg/l	TM37/PM0
		l .	I .	I .	1			1	1			

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm
Contact: Killian McGovern
EMT Job No: 22/3900

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/3900					$H=H_2SO_4$ , 2	Z=ZnAc, N=	NaOH, HN=	∶HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth	N/A	N/A	N/A	N/A								
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1						LOD/LOR	Units	Method No.
Date of Receipt				10/03/2022						_		
Total Phosphorus	<5	<5	7	<5						<5	ug/l	TM30/PM14
Chloride #	38.5	38.5	41.8	37.7						<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
											3	
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	150	147	159	145						<2	uS/cm	TM76/PM0
pH#	4.88	4.89	5.05	6.30						<0.01	pH units	TM73/PM0
Total Suspended Solids	3	5	3	2						<1	mg/l	TM37/PM0

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location:

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	Owen Cal 22/5150	nill					oducts: V= Z=ZnAc, N=	=glass bottle :HN0 <sub>3</sub>	e, P=plastic	bottle	
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW-1	SW-2	SW-3	SW-4							
Depth									Please se	e attached n	otes for all
COC No / misc										ations and ad	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date	23/03/2022	23/03/2022	23/03/2022	23/03/2022							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1					LOD/LOR	Units	Method
Date of Receipt	30/03/2022	30/03/2022	30/03/2022	30/03/2022					LOD/LOR	Offics	No.
Total Phosphorus	<5	<5	5	7					<5	ug/l	TM30/PM14
Chloride #	30.0	33.1	33.1	25.4					<0.3	mg/l	TM38/PM0
Nitrate as NO3 <sup>#</sup>	<0.2	<0.2	<0.2	<0.2					<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.03	<0.03	<0.03	0.06					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	0.06					<0.03	mg/l	TM38/PM0
_											
BOD (Settled) # Electrical Conductivity @25C #	<1 130	<1 128	<1 131	<1 124					<1 <2	mg/l uS/cm	TM58/PM0 TM76/PM0
pH#	5.77	6.40	6.33	6.62					<0.01	pH units	TM73/PM0
Total Suspended Solids	3	<1	2	1					<1	mg/l	TM37/PM0
		•	•	•	•						

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm
Contact: Killian McGovern
EMT Job No: 22/5898

Report: Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/5898					$H=H_2SO_4, Z$	∠=∠nAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth	N/A	N/A	N/A	N/A								
		IN/A	IN/A	IN/A							e attached nations and a	
COC No / misc												
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1						LOD/LOR	Units	Method
Date of Receipt	11/04/2022	11/04/2022	11/04/2022	11/04/2022								No.
Total Phosphorus	<5	7	9	5						<5	ug/l	TM30/PM14
Chloride#	23.8	28.7	30.4	23.6						<0.3	mg/l	TM38/PM0
Nitrate as NO3 #	<0.2	<0.2	<0.2	<0.2						<0.3	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
											_	
Ammoniacal Nitrogen as NH3 <sup>#</sup> Ammoniacal Nitrogen as NH4 <sup>#</sup>	<0.03 <0.03	<0.03 <0.03	<0.03 <0.03	<0.03 <0.03						<0.03 <0.03	mg/l mg/l	TM38/PM0 TM38/PM0
Aminoniacai Miliogen as MH4	30.03	30.03	-0.03	-0.03						-0.03	mg/i	TIVISO/FIVIU
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Dissolved Oxygen	10	10	10	10						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	103	117	124	99						<2	uS/cm	TM76/PM0
pH#	4.96	4.97	4.97	5.87						<0.01	pH units	TM73/PM0
Total Suspended Solids	8	7	5	5						<1	mg/l	TM37/PM0

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location: Contact: Killian McGovern

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

	Killian Mc 22/8388	Govern				H=H <sub>2</sub> SO <sub>4</sub> , 2		i=glass bottle :HN0₃	e, P=plastic	bottle	
EMT Sample No.	1-3	4-6									
Sample ID	SW3	SW4									
Depth	N/A	N/A							Please se	e attached n	otes for all
COC No / misc										ations and ad	
Containers	H P BOD	H P BOD									
Sample Date	18/05/2022 11:00	18/05/2022 11:30									
Sample Type	Surface Water	Surface Water									
Batch Number	1	1						Ī			Method
Date of Receipt	23/05/2022	23/05/2022							LOD/LOR	Units	No.
Total Phosphorus	9	<5							<5	ug/l	TM30/PM14
_											
Chloride #	18.3 <0.2	15.8 <0.2							<0.3 <0.2	mg/l	TM38/PM0 TM38/PM0
Nitrate as NO3 <sup>#</sup> Nitrite as NO2 <sup>#</sup>	<0.2	<0.2							<0.2	mg/l mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03							<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.03	0.06							<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4 #	<0.03	0.06							<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1							<1	mg/l	TM58/PM0
Electrical Conductivity @25C #	77	77							<2	uS/cm	TM76/PM0
pH #	6.94	6.94							<0.01	pH units	TM73/PM0
Total Suspended Solids	<1	4							<1	mg/l	TM37/PM0
		I.	I.	I.	I.						

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill

**EMT Job No:** 22/9480 H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

**Liquids/products:** V=40ml vial, G=glass bottle, P=plastic bottle

EMT Job No:	22/9480				 	п-п <sub>2</sub> 3О <sub>4</sub> , 2	Z-ZNAC, N-	NaOH, HN=	·ΠΙΝU3	_		
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Please se	e attached n	otos for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	08/06/2022 10:00	08/06/2022 10:30	08/06/2022 11:00	08/06/2022 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	10/06/2022	10/06/2022	10/06/2022	10/06/2022						LOD/LOR	Units	No.
Total Phosphorus	9	13	18	7						<5	ug/l	TM30/PM14
Chloride#	13.1	15.8	17.3	14.5						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	0.06	0.05	0.04	0.04						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.06	0.05	0.04	0.04						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1	<1						<1	ma/l	TM58/PM0
Dissolved Oxygen	9	9	9	9						<1	mg/l mg/l	TM58/PM0
Electrical Conductivity @25C#	61	76	80	88						<2	uS/cm	TM76/PM0
pH #	5.83	6.09	6.59	6.75						<0.01	pH units	TM73/PM0
Total Suspended Solids	3	5	10	7						<1	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm
Contact: Killian McGovern
EMT Job No: 22/12698

Report: Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/12698					$H=H_2SO_4, Z$	∠=∠nAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Division		
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number		1	1	1								
Date of Receipt			05/08/2022							LOD/LOR	Units	Method No.
Total Phosphorus	9	22	27	17						<5	ug/l	TM30/PM14
·												
Chloride #	5.9	8.1	8.8	8.2						<0.3	mg/l	TM38/PM0
Nitrate as NO3 * Nitrite as NO2 *	<0.2 <0.02	<0.2 <0.02	<0.2 <0.02	<0.2 <0.02						<0.2 <0.02	mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<0.02	0.02	0.02	<0.02						<0.02	mg/l mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	0.05	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.05	<0.03	0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	36	50	56	51						<2	uS/cm	TM76/PM0
pH #	5.86	5.55	5.56	5.81						<0.01	pH units	TM73/PM0
Total Suspended Solids	2	2	2	4						<1	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 201174

Location: Meenbog Wind Farm

Contact: Owen Cahill EMT Job No: 22/14928

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/14928					$H=H_2SO_4, Z$	Z=ZnAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth												
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number		1	1	1								
										LOD/LOR	Units	Method No.
Date of Receipt Total Phosphorus	14/09/2022 <5	14/09/2022	14/09/2022 18	14/09/2022						<5	ua/l	TM30/PM14
Total Phosphorus	<b>\</b> 5	15	10	11						75	ug/l	TIVISO/FIVIT4
Chloride#	7.7	9.6	10.9	10.6						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	0.05	<0.03	0.04	0.70						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.05	0.03	0.04	0.74						<0.03	mg/l	TM38/PM0
BOD (Settled) # Electrical Conductivity @25C #	<1 40	<1 52	<1 83	<1 62						<1 <2	mg/l uS/cm	TM58/PM0 TM76/PM0
pH#	6.12	6.24	7.24	7.13						<0.01	pH units	TM73/PM0
Total Suspended Solids	4	3	4	4						<1	mg/l	TM37/PM0
	<u> </u>	l										

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill EMT Job No: 22/16939

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/16939					H=H <sub>2</sub> SO <sub>4</sub> , 2	∠=∠nAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Division		
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date				13/10/2022 11:30								
Sample Type												
Batch Number		1	1	1								
Date of Receipt										LOD/LOR	Units	Method No.
Total Phosphorus	<5	16	17	8						<5	ug/l	TM30/PM14
Chloride #	8.4	10.6	11.7	10.7						<0.3	mg/l	TM38/PM0
Nitrate as NO3 # Nitrite as NO2 #	<0.2 <0.02	<0.2 <0.02	<0.2 <0.02	<0.2 <0.02						<0.2 <0.02	mg/l mg/l	TM38/PM0 TM38/PM0
Ortho Phosphate as PO4	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
											-	
Ammoniacal Nitrogen as NH3#	0.08	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	0.09	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	105	54	58	56						<2	uS/cm	TM76/PM0
pH #	5.72	5.65	6.05	6.50						<0.01	pH units	TM73/PM0
Total Suspended Solids	6	4	4	4						<1	mg/l	TM37/PM0

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 190501

Location: Meenbog Wind Farm

Contact: Owen Cahill EMT Job No: 22/19933

Report : Liquid

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	22/19933					$H=H_2SO_4, Z$	Z=Znac, N=	ivaon, niv-	·HINU3			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth										Dlagga ga	e attached n	otes for all
COC No / misc											ations and a	
Containers	H P BOD	H P BOD	H P BOD	H P BOD								
Sample Date	30/11/2022 10:00	30/11/2022 10:30	30/11/2022 11:00	30/11/2022 11:30								
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water								
Batch Number	1	1	1	1								Method
Date of Receipt	03/12/2022	03/12/2022	03/12/2022	03/12/2022						LOD/LOR	Units	No.
Total Phosphorus	<5	15	17	9						<5	ug/l	TM30/PM14
_												
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	6.9 <0.2	8.2 <0.2	9.1	8.1 <0.2						<0.3 <0.2	mg/l mg/l	TM38/PM0 TM38/PM0
Nitrate as NO3	<0.2	<0.02	<0.02	<0.02						<0.2	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	<0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3#	<0.030	<0.030	<0.030	0.038						<0.030	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	<0.03	0.04						<0.03	mg/l	TM38/PM0
BOD (Settled)#	<1	<1	<1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	36	45	52	59						<2	uS/cm	TM76/PM0
pH #	6.95	6.56	7.27	6.62						<0.01	pH units	TM73/PM0
Total Suspended Solids	1	<1	<1	3						<1	mg/l	TM37/PM0
			<u> </u>					<u> </u>				

McCarthy Keville & O'Sullivan Ltd Client Name:

190501 Reference:

Meenbog Wind Farm Location:

Owen Cahill Contact:

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

Contact: EMT Job No:	Owen Cal 23/319	ווור				H=H <sub>2</sub> SO <sub>4</sub> , 2		=glass bottle :HN0 <sub>3</sub>	e, P=plastic	bottle	
EMT Sample No.	1-3	4-6	7-9	10-12							
Sample ID	SW1	SW2	SW3	SW4							
Depth									Please se	e attached n	otes for all
COC No / misc										ations and ad	
Containers	H P BOD	H P BOD	H P BOD	H P BOD							
Sample Date	09/01/2023 10:00	09/01/2023 10:30	09/01/2023 11:00	09/01/2023 11:30							
Sample Type	Surface Water	Surface Water	Surface Water	Surface Water							
Batch Number	1	1	1	1				•	100#00	11.26	Method
Date of Receipt	11/01/2023	11/01/2023	11/01/2023	11/01/2023					LOD/LOR	Units	No.
Total Phosphorus	5	18	15	11					<5	ug/l	TM30/PM14
O #	0.4	0.0	40.4	40.0					-0.2		TM38/PM0
Chloride <sup>#</sup> Nitrate as NO3 <sup>#</sup>	9.4	9.9	10.4 0.6	10.6 <0.2					<0.3 <0.2	mg/l mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02					<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	0.04	0.04	0.03					<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.030	<0.030	<0.030	<0.030					<0.030	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4	<0.03	<0.03	<0.030	<0.030					<0.030	mg/l	TM38/PM0
_											
BOD (Settled)#	<1	<1	<1	<1					<1	mg/l	TM58/PM0
Electrical Conductivity @25C # pH #	121 8.18	55 5.82	53 5.99	51 6.20					<2 <0.01	uS/cm pH units	TM76/PM0 TM73/PM0
рп Total Suspended Solids	3	5	5	<1					<1	mg/l	TM37/PM0
·										-	
		•							_		

Client Name: McCarthy Keville & O'Sullivan Ltd

Reference: 19051

Location: Meenbog Wind Farm

Contact: Owen Cahill EMT Job No: 23/3125

Liquids/products: V=40ml vial, G=glass bottle, P=plastic bottle

H=H<sub>2</sub>SO<sub>4</sub>, Z=ZnAc, N=NaOH, HN=HNO<sub>3</sub>

EMT Job No:	23/3125					H=H <sub>2</sub> SO <sub>4</sub> , 2	∠=∠nAc, N=	NaOH, HN=	:HN0 <sub>3</sub>			
EMT Sample No.	1-3	4-6	7-9	10-12								
Sample ID	SW1	SW2	SW3	SW4								
Depth												
COC No / misc											e attached nations and a	
Containers		H P BOD	H P BOD	H P BOD								
Sample Date												
Sample Type												
Batch Number	1	1	1	1						LOD/LOR	Units	Method No.
Date of Receipt										_		
Total Phosphorus	<5	13	15	7						<5	ug/l	TM30/PM14
Chloride #	8.9	10.5	11.6	9.7						<0.3	mg/l	TM38/PM0
Nitrate as NO3#	<0.2	<0.2	<0.2	<0.2						<0.2	mg/l	TM38/PM0
Nitrite as NO2#	<0.02	<0.02	<0.02	<0.02						<0.02	mg/l	TM38/PM0
Ortho Phosphate as PO4	<0.03	0.03	<0.03	<0.03						<0.03	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH3 <sup>#</sup>	<0.030	<0.030	<0.030	<0.030						<0.030	mg/l	TM38/PM0
Ammoniacal Nitrogen as NH4#	<0.03	<0.03	0.03	<0.03						<0.03	mg/l	TM38/PM0
											3	
BOD (Settled)#	1	1	1	<1						<1	mg/l	TM58/PM0
Electrical Conductivity @25C#	44	51	56	64						<2	uS/cm	TM76/PM0
pH#	6.12	6.26	6.23	6.27						<0.01	pH units	TM73/PM0
Total Suspended Solids	<1	1	<1	<1						<1	mg/l	TM37/PM0