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FACILITY INFORMATION SUMMARY

AER Reporting Year:	2012
Licence Register Number:	W0256-01
Name of Site:	Lennon Quarries Ltd
Site Location:	Tallagh, Belmullet, Co. Mayo
Class/Classes of Activity:	
National Grid Reference:	

Emissions from the Facility

All our emissions from water were below the limits required by the EPA.

From July onwards, we added an extra emissions monitoring point ourselves.

This emissions point can be found in a stream that runs into the Clooneen River.

I have marked the position of the emission point on the map found in appendix 1.A.

As you can see from the results the levels of the emissions are higher in the emission point found in the stream, than the levels found in the emission sites found on our site.

Therefore it would appear that our settlement ponds are helping to dilute the stream and river.

All the results can be found in appendix 1 of this document.

The emission point from the stream is marked Surface Water 6. Downstream in the monitoring reports.

PROGRESS OF WASTE DEPOSITION WORKS

We are to fill the site in 3 phases and we are hoping to be in a position to grass seed a part of phase 1 in July or August 2013.

Resource Consumption Summary

There is no electricity on site so the only resource being used is diesel for the machine that is used on site. Last year there was 3,854 litres of diesel used in the machine on site.

Complaints Summary

There were no complaints made to or about the facility in 2012.

<u>Schedule of Environmental Objectives and Targets</u>

Lennon Quarries Ltd. Environmental objectives for waste licence W0256-01 are:

- To comply fully with the conditions of EPA Waste License W0256-01
- To comply with applicable environmental legislation and best industry practice
- To be a good neighbor
- To respect the legitimate concerns and interests of the community
- To achieve continuous improvement in environmental performance
- Carry out the business of soil/stones recovery in a manner which will minimize adverse effects on the environment and the local community.
- Conserve resources by making efficient use of energy and raw materials.
- Ensure that employees and contractors perform their duties in a manner consistent with this environmental code.
- Be committed to good environmental management.

Lennon Quarries Ltd will actively pursue these objectives by:

- Implementing this Environmental Management System (EMS) to assist in achieving the policy;
- Making available the required financial resources to operate this policy in accordance with Best Available Technique (BAT) principles;
- Recognising that the successful implementation of this policy depends on the ongoing commitment of all those working for the company, including all employees and all contractors.

Environmental Management Programme

Mr Dermot Lennon as the nominated 'Facility Manager' will have the responsibility to ensure that this Environmental Management System and the environmental objectives and targets are fully implemented.

In order to achieve this Mr. Dermot Lennon must be fully knowledgeable about the conditions of EPA Waste Licence W0256-01 and with relevant environmental legislation and best industry practice.

Mr Dermot Lennon must nurture a positive relationship with the local community and ensures that the legitimate concerns and interests of the community (in relation to the waste licensed facility) are fully dealt with.

He must ensure that all procedures (as dictated by Waste Licence W0256-01) (including reporting on Energy/Resource Use) are fully adhered to by other employees at the facility and by all those entering the facility.

All procedures will be implemented on the site immediately. The environmental objectives and targets will be reviewed (& updated where necessary) on an annual basis, as part of the annual Environmental Management System review and will be attached as an appendix to the Annual Environmental Report (AER) (due to be lodged with the EPA <31st March each year).

As conditioned, the Environmental Management System reports will be stored in the site office for a period of not less than 7 years and shall be available (during facility opening times) for inspection by members of the EPA, or members of the public.

Noise Monitoring Report

Noise is only monitored when a complaint is made which is stated in the conditions of waste licence W0256-01.

There were no complaints in 2012.

Dust Monitoring Report

As per the conditions of waste licence W0256-01, Dust is monitored bi-annually.

As you can see from the reports the results were below the limit imposed on our licence of 350 mg/m2/day.

Copies of the results can be found at appendix 2.

BIRD SURVEY REPORT

A bird survey was carried out in August 2012 as per conditions of our waste licence.

It found that the current operations of the site are not significantly impacting breeding bird species.

The full report can be found in appendix 4.

Reported Incidents Summary

No Incidents occurred in the facility during 2012

Development/Infrastructural Works Summary

In 2012 temporary access roads were created

A hard standing area and turning circle were completed

Settlement ponds were completed in January 2012

MANAGEMENT AND STAFFING STRUCTURE

Mr T.J Lennon is the owner/managing director of Lennon Quarries Ltd

Mr. Dermot Lennon is the nominated 'Facility Manager'. It is Mr D. Lennon's responsibility to ensure that the facility is operated in full compliance with all conditions of Waste Licence W0256-01. He will be the person in ongoing contact with the EPA in relation to licence compliance. Licence compliance may require the subcontracting of works to contractors (e.g. upkeep of fencing, gates, etc.) and/or consultants (e.g. environmental monitoring, completion of AER Reports, topographic surveying, etc.) it will be Mr. D Lennon's responsibility to communicate and manage these sub-contracts.

Mr. T.J Lennon (Junior) is the nominated 'Deputy Facility Manager' and 'Machine Operative'. It is Mr. T.J Lennon (Junior)'s responsibility for the day-to-day operation of the facility. He will open and close the facility on a daily basis, accept waste, quarantine unauthorised wastes, spread the imported material over the site and control all the abatement/treatment systems onsite. **Ms Sandra Carey** will deal with all administration duties such as keeping records up to date in site office and AER returns.

External Consultants will be contracted to carry out the environmental monitoring and associated reporting conditions under Waste Licence W0256-01. The consultants will report directly to the Facility Manager.

PROGRAMME FOR PUBLIC INFORMATION

There is a notice board at the entrance of the Facility which includes the name and telephone number of the facility, the opening hours and an emergency out of hours contact number.

There is an office on site that will contain the *Environmental Management Documentation System*. This will include a series of clearly labelled folders, stored in an orderly and easy to access fashion, in the facility site office. The folders will be kept up to date and will be available for inspection by members of the EPA and members of the public, during opening hours at the facility.

Waste Summary

The total tonnage accepted in 2012 was 37,289.50

After discussions with Michael Henry, (senior inspector in Castlebar); we were allowed an extra 12,450 tonnes (half the annual licence limit) from the 01/07/2012 to 31/12/12.

This extra allowance was given providing we subtract from the 12,450, an amount of 2,095 tonnes that we accepted to the site for construction materials last year. That gave us a limit of 10,335 tones from 01/07/2012 to the 31/12/2012.

Please see supporting documentation in appendix 4 for further information.

Appendix 1: Water Monitoring Results

Compl	L S ete Laboratory Solutions	Ros Mu [Tel] 0 [Fax] 0 [Email	ete Laboratory Solu IC, Co. Galway, 91 574355 91 574356] services@cls.ie www.completelabs	
Client	: Dermot Lennon Lennon's Quarries Glen Castle Bunnahoeen Ballina, Co.Mayo	Start D Date o Order	f Receipt : Date of Analysis : f Report : Number :	160526 04/04/2012 04/04/2012 17/04/2012 Client
State in the	CERT	Results		
Lab No	Sample Description	Test	Result	Units
368195	Surface Water 2. Downstream	Antimony, total Arsenic, total Beryllium, total Cadmium, total Chromium, total Cobalt, total Conductivity @20C Copper, total Extractable HC/ DRO (C8-C40) total and dissolved Lead, total Mineral OII (by calculation) Molybdenum, total Nickel, total PH Selenium, total Suspended Solids Tellurium, total Thallium, total Tin, total Total Heavy Metals Vanadium, total Zinc, total	<0.5 <0.5 <0.5 <0.5 <0.7 0.6 369 <1) <100 0.8 <100 <0.5 <0.5 6.7 <0.5 6.7 <0.5 5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
	RE I FARE Allocation TESTRO RELEVANT	Appr See reverse for Test Specifications This report only relation to items tested and sh Complete Laboratory Solutions.	Enviro	Barbara Lee nmental Scientist

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(C	00	Complete Laboratory Solut Ros Muc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cis.ie	ions
Comple	ete Laboratory Solutions	[web] www.completelabso	utions.com
1	: Dermot Lennon	[web] www.completelabso Report No. :	160527
Client		[web] www.completelabso Report No. : Date of Receipt :	160527 04/04/2012
/	: Dermot Lennon Lennon's Quarries	[web] www.completelabso Report No. : Date of Receipt : Start Date of Analysis :	160527
/	: Dermot Lennon Lennon's Quarries Gien Castle	[web] www.completelabso Report No. : Date of Receipt : Start Date of Analysis :	160527 04/04/2012 04/04/2012

CERTIFICATE OF ANALYSIS

		Results		
Lab No	Sample Description	Test	Result	Units
368196	Surface Water 3. Downstream	Antimony, total	<0.5	ug/l
		Arsenic, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Chromium, total	0.9	ug/i
		Cobalt, total	0.6	ug/l
		Conductivity @20C	370	uS/cm
		Copper, total	<1	ug/l
		Extractable HC/ DRO (C8-C40) total and dissolved	<100	ug/l
		Lead, total	1	ug/l
		Mineral Oil (by calculation)	<100	ug/l
		Molybdenum, total	<0.5	ug/l
		Nickel, total	<0.5	ug/l
		pH	6.7	pH Units
		Selenium, total	<0.5	ug/l
		Suspended Solids	<2	mg/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Tin, total	<0.5	ug/I
		Total Heavy Metals	10.5	ug/l
		Vanadium, total	2	ug/l
		Zinc, total	6	ug/l



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Approved by:

Barbara Lee

Barbara Lee Environmental Scientist



CERTIFICATE OF ANALYSIS

Lab No	Sample Description	Test	Result	Units
240102	Surface Water 4. Downstream	Antimony, total	<0.5	ug/l
368197	Surface water 4, Downscream	Arsenic, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Cadmium, total	< 0.5	ug/l
		Chromium, total	0.8	ug/l
	Cobait, total	0.6	ug/l	
		Conductivity @20C	369	uS/cm
	and the second se	Copper, total	<1	ug/l
		Extractable HC/ DRO (C8-C40) total and dissolved	<100	ug/l
		Lead, total	0.9	ug/l
		Mineral Oil (by calculation)	<100	ug/l
		Molybdenum, total	<0.5	ug/l
		Nickel, total	<0.5	ug/l
-		pH	6.7	pH Units
		Selenium, total	<0.5	ug/l
11/11		Suspended Solids	<2	mg/l
1.00		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
	and the second s	Tin, total	<0.5	ug/l
		Total Heavy Metals	10.3	ug/l
G		Vanadium, total	2	ug/l
		Zinc, total	6	ug/l



Approved by:

Barbara Lee

Barbara Lee Environmental Scientist



CERTIFICATE OF ANALYSIS

		Results		
Lab No	Sample Description	Test	Result	Units
368198	Surface Water 5. Downstream	Antimony, total	<0.5	ug/l
	Apple and the second se	Arsenic, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
and the state of the	Cadmium, total	<0.5	ug/l	
		Chromium, total	0.8	ug/l
		Cobalt, total	0.6	ug/l
		Conductivity @20C	370	uS/cm
		Copper, total	<1	Ug/I
		Extractable HC/ DRO (C8-C40) total and dissolved	132 Unknown Pattern *	ug/l
		Lead, total	0.6	ug/l
		Mineral Oil (by calculation)	132	ug/I
		Molybdenum, total	< 0.5	ug/I
		Nickel, total	<0.5	ug/I
		pH	6.7	pH Units
		Selenium, total	<0.5	ug/l
		Suspended Solids	5	mg/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Tin, total	<0.5	ug/l
		Total Heavy Metals	4	ug/l
		Vanadium, total	2	ug/l
		Zinc, total	<5	ug/l

* Note: The comment expressed here is an interpretation and is not INAB accredited



Approved by:

Barbara Lee

Barbara Lee Environmental Scientist

	C L S mplete Laboratory Solutions	Complete Laboratory S RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] <u>www.completel</u>		s.com
Client	: Dermot Lennon Lennon's Quarries	Report No. Date of Receipt	: 167	/855
	Glen Castle	Start Date of Analysis		07/2012
	Bunnahoeen	Date of Report		08/2012
	Ballina, Co.Mayo	Order Number	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	100000
	transfer and a second as a	Sample taken by	: Clie	ent
5626	Surface Water 1. Downstream	Suspended Solids pH	<2 7.0	mg/l pH Units
100		Conductivity @20C	280	uS/cm
		Copper, total	<1	ug/l
100		Arsenic, total	<0.5	ug/i
		Zinc, total	<5	ug/l
		Chromium, total Nickel, total	0.6	ug/i ug/i
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	< 0.5	ug/l
		Cobalt, total	0.7	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total Thallium, total	<0.5	ug/l ug/l
		indition, coldi	1	ug/i ug/i
		Vanadium, total		
		Vanadium, total Molybdenum, total	<0.5	uq/l
				ug/l ug/l
		Molybdenum, total Tin, total Beryllium, total	<0.5 <0.5 <0.5	ug/l ug/l
		Molybdenum, total Tin, total Beryllium, total Total Heavy Metals	<0.5 <0.5 <0.5 2.3	ug/l ug/l ug/l
		Molybdenum, total Tin, total Beryllium, total	<0.5 <0.5 <0.5	ug/l ug/l



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	DDDD nplete Laboratory Solutions		Complete Laboratory So RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] <u>www.completela</u>		com
Client	: Dermot Lennon		Report No.	: 167	856
Gircitte	Lennon's Quarries		Date of Receipt	: 11/	07/2012
	Gien Castie		Start Date of Analysis		07/2012
	Ci i i i i i i i i i i i i i i i i i i		Date of Report	10268	08/2012
	Bunnahoeen		56776877345774777777	. 05/	00/2012
	Ballina, Co.Mayo		Order Number		
	and the second second		Sample taken by	: Clie	nt
	Sample Description		LYSIS	Result	Units mg/l
	Sample Description Surface Water 2. Downstream	Suspended Solids		<2	mg/l
		Suspended Solids			
		Suspended Solids		<2 6.7	mg/l pH Units
		Suspended Solids pH Conductivity @20C		<2 6.7 367 <1 <0.5	mg/l pH Units uS/cm ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total		<2 6.7 367 <1 <0.5 <5	mg/l pH Units uS/cm ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total		<2 6.7 367 <1 <0.5 <5 0.6	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Antimony, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cadmium, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
ab No 35627		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cadmum, total Cobalt, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cobaitu, total Cobaitu, total Selenium, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 0.8	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cadmum, total Cobalt, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cobalt, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cadmium, total Cobait, total Selenium, total Teilurium, total Teilurium, total Thallium, total Vanadium, total Molybdenum, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total Molybdenum, total Tin, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cobalt, total Cobalt, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total Molybdenum, total Tin, total Beryllium, total		<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cobalt, total Cobalt, total Selenium, total Tellurium, total Tellurium, total Vanadium, total Molybdenum, total Tin, total Beryllium, total Total Heavy Metals	Test	<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chromium, total Nickel, total Lead, total Lead, total Cobalt, total Cobalt, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total Molybdenum, total Tin, total Beryllium, total	Test -C40) total and dissolved	<2 6.7 367 <1 <0.5 <5 0.6 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	mg/l pH Units ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l

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Barbara Lee Environmental Scientist

	DDD mplete Laboratory Solutions	Complete Laboratory S RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.k [web] <u>www.completel</u>		s.com
Client	: Dermot Lennon Lennon's Quarries Gien Castle Bunnahoeen Ballina, Co.Mayo	Report No. Date of Receipt Start Date of Analysis Date of Report Order Number Sample taken by	: 11/ : 11/	2857 07/2012 07/2012 08/2012 ent
	e de la	CERTIFICATE OF ANALYSIS	1. 1	
b No	Sample Description	Test	Result	Units
628	Surface Water 3. Downstream	Suspended Solids	<2 6.6	pH Units
1		pH Conductivity @20C	365	uS/cm
		Copper, total	4	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total Chromium, total	6	ug/l
	and the second second	Nickel, total	0.6	ug/l
		Lead, total	< 0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l ug/l
		Cobalt, total Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	0.7	ug/l ug/l
		Molybdenum, total Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	13.0	ug/l
		Extractable HC/ DRO (C8-C40) total and dissolved Mineral Oil (by calculation)	<100	ug/l ug/l
-			14	
111	V	B	arbar A	
Ϊ¥	NAB	Env See reverse for Test Specifications	Barbara /ironmenta	Lee I Scientist
INTAL 23 IN	ACCUPT INTER INC. SVID	This report only relates to items tested and shall not be reproduced but Complete Laboratory Solutions.	in fall with the p	ermission of
Approx 2	SCOPE NEE 90, 1999	Complete Laboratory Solutions.		

1	mplete Laboratory Solutions	RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cis.ie [web] <u>www.completela</u>	bsolutions	.com
Client	: Dermot Lennon Lennon's Quarries Glen Castle Bunnahoeen Ballina, Co.Mayo	Report No. Date of Receipt Start Date of Analysis Date of Report Order Number Sample taken by	: 11/	07/2012 07/2012 08/2012
-	provention and	CERTIFICATE OF ANALYSIS		-
ab No 85629	Sample Description Surface Water 4. Downstream	Suspended Solids	Result <2	Units mg/l
33029	Surface water 4. Downstream	pH	6.7	pH Units
		Conductivity @20C	353	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/I
		Zinc, total	<5	ug/I
		Chromium, total	0.6	ug/l
		Nickel, total	<0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	< 0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	0.7	ug/l
		Selenium, total	<0.5	ug/l ug/l
	and the second sec	Tellurium, total	<0.5	ug/l
		Thallium, total Vanadium, total	1	ug/l
		Molybdenum, total	0.6	ug/l
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	2.9	ug/I
		Extractable HC/ DRO (C8-C40) total and dissolved	<100	ug/I
		Mineral Oil (by calculation)	<100	ug/i
-		Mineral Oil (by calculation)	<100	ug/l
	no imas		Barbara	
	NAB	Envi	ronmental	Scientist
	41210100	See reverse for Test Specifications		
		See reverse for 1 as operations		mission of
		Envir	Barbara I	Lee

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Client

: Dermot Lennon Lennon's Quarries Glen Castle Bunnahoeen Ballina, Co.Mayo

Complete Laboratory Solutions RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] <u>www.completelabsolutions.com</u>

Report No.	: 167859
Date of Receipt	: 11/07/2012
Start Date of Analysis	: 11/07/2012
Date of Report	: 03/08/2012
Order Number	:
Sample taken by	: Client

CERTIFICATE OF ANALYSIS

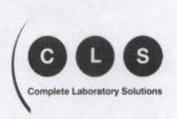
ab No	Sample Description	Test	Result	Units
85630	Surface Water 5. Downstream	Suspended Solids	<2	mg/l
ALC: NOTE: N		pH	6,5	pH Units
		Conductivity @20C	355	uS/cm
		Copper, total	2	ug/l
		Arsenic, total	< 0.5	ug/l
		Zinc, total	<5	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	< 0.5	ug/l
	and the second sec	Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	0.6	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	< 0.5	ug/l
		Thallium, total	< 0.5	ug/l
		Vanadium, total	1	ug/l
		Molybdenum, total	0.7	ug/l
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	4.9	ug/l
		Extractable HC/ DRO (C8-C40) total and dissolved	<200	ug/l
		Mineral Oil (by calculation)	<200	ug/l



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Approved by:

Barbara Lee Barbara Lee Environmental Scientist



Client

Dermot Lennon Lennon's Quarries Glen Castle Bunnahoeen Ballina, Co.Mayo Complete Laboratory Solutions RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] www.completelabsolutions.com

Report No.	12	167860
Date of Receipt		11/07/2012
Start Date of Analysis	1	11/07/2012
Date of Report	1	03/08/2012
Order Number	1	
Sample taken by	12	Client

CERTIFICATE OF ANALYSIS

Lab No	Sample Description	Test	Result	Units
35631	Surface Water 6. Downstream	Suspended Solids	<2	mg/l
	and the second	pH	6.7	pH Units
	Extra monitoring	Conductivity @20C	293	uS/cm
	Create intering	Copper, total	2	ug/l
	Point taken	Arsenic, total	0.6	ug/l
		Zinc, total	11	ug/l
	From Stream	Chromium, total	1	ug/l
		Nickel, total	2	ug/l
		Lead, total	2	ug/l
	that runs into	Antimony, total	< 0.5	ug/l
		Cadmium, total	< 0.5	ug/l
	Clooneen River	Cobalt, total	< 0.5	ug/l
	Clooneen iliver	Selenium, total	<0.5	ug/I
	CONTRACTOR OF CONTRACTOR	Tellurium, total	<0.5	ug/ī
	Off site	Thailium, total	<0.5	ug/l
		Vanadium, total	4	ug/l
	C	Molybdenum, total	<0.5	ug/l
	see map in	Tin, total	<0.5	ug/l
	allower all all all and	Beryllium, total	<0.5	ug/i
	Appendix 1.A.	Total Heavy Metals	22.6	ug/l
	in the	Extractable HC/ DRO (CB-C40) total and dissolved	<100	ug/l
		Mineral Oil (by calculation)	<100	ug/l
-		mineral OII (by calculation)	1~100	09/1



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Approved by:

Barbara Lee Barbara Lee

Environmental Scientist

Com	Delete	L S Laboratory Solutions	Complete Laboratory Soli RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] <u>www.completelab</u>			em
					C. Marco	
Client	1	Dermot Lennon	Report No.	4	17991	1
Client	i	Dermot Lennon Lennon's Quarries	Report No. Date of Receipt	*	1000000	/2012
Client	1				26/11	
Client	1	Lennon's Quarries	Date of Receipt		26/11 26/11	/2012
Client	1	Lennon's Quarries Glen Castle	Date of Receipt Start Date of Analysis		26/11 26/11	/2012 /2012

Lab	Sample Description	Test	Result	Units
12131	Surface Water 1.	Suspended Solids	3	mg/l
	Downstream	рН	6.3	pH Units
	and the second	Conductivity @20C	170	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
	1	Zinc, total	<5	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	<0.5	ug/I
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/I
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	1	ug/l
		Molybdenum, total	<0.5	ug/I
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	1.6	ug/l
		Mineral Oil (by calculation)	149	ug/l
5		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	149 Unknown Pattern*	ug/l

* Note: The comment expressed here is an interpretation and is not INAB accredited.



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Barbara Le x Barbara Lee Environmental Scientist



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Report No.		179912
Date of Receipt		26/11/2012
Start Date of Analysis	3	26/11/2012
Date of Report	1	14/12/2012
Order Number	1	
Sample taken by	12	Client

CERTIFICATE OF ANALYSIS

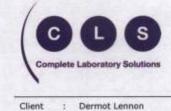
Lab	Sample Description	Test	Result	Units
12133	Surface Water 2.	Suspended Solids	<2	mg/l
	Downstream	PH	6.6	pH Units
		Conductivity @20C	168	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total	8	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	0.5	ug/l
		Lead, total	< 0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	lug/l
		Selenium, total	< 0.5	ug/I
		Tellurium, total	<0.5	ug/I
		Thallium, total	<0.5	ug/l
		Vanadium, total	2	ug/I
		Molybdenum, total	<0.5	ug/l
		Tin, total	< 0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	1.2	ug/l
1		Mineral Oil (by calculation)	224	ug/l
8		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	224 Unknown Pattern*	ug/l

* Note: The comment expressed here is an interpretation and is not INAB accredited.



Approved by:

Barbara Lee Barbara Lee Environmental Scientist



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Report No.	: 179913	
Date of Receipt	: 26/11/2012	
Start Date of Analysis	: 26/11/2012	
Date of Report	: 14/12/2012	
Order Number	1	
Sample taken by	: Client	

CERTIFICATE OF ANALYSIS

Lab	Sample Description	Test	Result	Units
12134	Surface Water 3.	Suspended Solids	<2	mg/l
	Downstream	pH	6.3	pH Units
		Conductivity @20C	167	uS/cm
	1	Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total	6	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	< 0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	1	ug/ī
		Molybdenum, total	<0.5	ug/i
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	7.1	ug/l
		Mineral Oil (by calculation)	141	ug/l
-		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	141 Unknown Pattern*	ug/l

The comment expressed here is an i 1401



Approved by:

Barbara Lee Barbara Lee Environmental Scientist



Client

: Dermot Lennon Lennon's Quarries Glen Castle Bunnahowen

Ballina, Co.Mayo

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Report No.	:	179914	
Date of Receipt	4	26/11/2012	
Start Date of Analysis	- 3	26/11/2012	
Date of Report	-	14/12/2012	
Order Number	-		
Sample taken by	1	Client	

CERTIFICATE OF ANALYSIS

Lab	Sample Description	Test	Result	Units
12135	Surface Water 4.	Suspended Solids	2	mg/l
	Downstream	pH	6.2	pH Units
		Conductivity @20C	162	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total	7	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	<0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/I
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	< 0.5	ug/l
		Vanadium, total	1	ug/l
		Molybdenum, total	<0.5	ug/l
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	8.6	ug/l
		Mineral Oil (by calculation)	169	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	169 Unknown Pattern*	ug/I

Note: The comment expressed here is an interpretation and is not INAB accredited



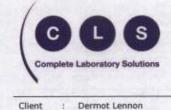
Approved by:

Barbara Lee Barbara Lee

Environmental Scientist

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Report No.	1	179915	
Date of Receipt	- 2	26/11/2012	
Start Date of Analysis		26/11/2012	
Date of Report		14/12/2012	
Order Number			
Sample taken by	1	Client	

CERTIFICATE OF ANALYSIS

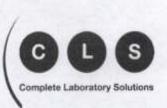
Lab	Sample Description	Test	Result	Units
12136	Surface Water 5.	Suspended Solids	<2	mg/l
	Downstream	pH	6.8	pH Units
		Conductivity @20C	166	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total	6	ug/l
		Chromium, total	0.8	ug/l
	1-12-12-12-12-12-12-12-12-12-12-12-12-12	Nickel, total	0.7	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0,5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
	the state of the state	Thailium, total	<0.5	ug/l
		Vanadium, total	2	ug/l
		Molybdenum, total	<0.5	ug/l
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	1.58	ug/l
		Mineral Oil (by calculation)	505	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	505 Unknown Pattern*	ug/l

Note: The comment expressed here is an interpretation and is not INAB accredited.



Approved by:

Barbara Lee Barbara Lee Environmental Scientist



Bunnahowen Ballina, Co.Mayo

Client : Dermot Lennon Lennon's Quarries Glen Castle Complete Laboratory Solutions RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] www.completelabsolutions.com

Report No.	-	179916
Date of Receipt	÷	26/11/2012
Start Date of Analysis	1	26/11/2012
Date of Report	1	14/12/2012
Order Number	1	
Sample taken by	4	Client

CERTIFICATE OF ANALYSIS

Lab No	Sample Description	Test	Result	Units
2137	Surface Water 6.	Suspended Solids	3	mg/l
	Downstream	рН	7.6	pH Units
	Extra monitoring	Conductivity @20C	215	uS/cm
		Copper, total	4	ug/l
	Point taken	Arsenic, total	0,7	ug/l
	TOME TOKEN	Zinc, total	19	ug/l
	-	Chromium, total	2	ug/l
	From Stream	Nickel, total	2	ug/l
		Lead, total	0.6	ug/l
	that runs	Antimony, total	<0.5	ug/l
	Inde rous	Cadmium, total	<0.5	ug/l
	into cloonen	Cobalt, total	<0.5	ug/l
	in the cities include	Selenium, total	<0.5	ug/l
	River OFF	Tellurium, total	<0.5	ug/l
	NIVER ON	Thallium, total	<0.5	ug/l
	SIA	Vanadium, total	4	ug/l
	site.	Molybdenum, total	0.9	ug/l
	see map in	Tin, total	0.6	ug/l
	See mar in	Beryllium, total	<0.5	ug/l
	Appendix IA	Total Heavy Metals	7.07	ug/l
	THETON TH	Mineral Oil (by calculation)	314	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) Total and Dissolved by GC-FID	314 Unknown Pattern*	ug/l

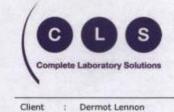
* Note: The comment expressed here is an interpretation and is not INAB accredited.



Approved by:

Barbara Lee **Barbara** Lee

Environmental Scientist



Dermot Lennon 2 Lennon's Quarries Glen Castle Bunnahowen Ballina, Co.Mayo

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Report No.	: 181942	
Date of Receipt	: 14/12/2012	
Start Date of Analysis	: 14/12/2012	
Date of Report	: 14/01/2013	ß
Order Number	:	
Sample taken by	: Client	

CERTIFICATE OF ANALYSIS

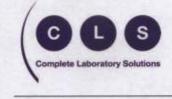
Lab	Sample Description	Test	Result	Units
6719	Surface Water 1. Downstream	Suspended Solids	<2	mg/l
		рН	7.7	pH Units
		Conductivity @20C	203	uS/cm
		Copper, total	<1	ug/l
		Arsenic, total	<0.5	ug/l
		Zinc, total	6	ug/l
		Chromium, total	0.7	ug/l
		Nickel, total	<0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	2	ug/i
		Molybdenum, total	<0.5	ug/l
		Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	8.7	ug/l
		Mineral Oil (by calculation)	152	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) by GC-FID	152 Unknown Pattern*	ug/l

* Note: The comment expressed here is an interpretation and is not INAB accredited.



Approved by:

Barbara Le Barbara Lee Environmental Scientist



Client :

: Dermot Lennon Lennon's Quarries Gien Castle Bunnahowen Ballina, Co.Mayo Complete Laboratory Solutions RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] <u>www.completelabsolutions.com</u>

Report No.	1	181943	
Date of Receipt	-	14/12/2012	
Start Date of Analysis		14/12/2012	
Date of Report	+	09/01/2013	
Order Number	18		
Sample taken by	2	Client	

CERTIFICATE OF ANALYSIS

Lab	Sample Description	Test	Result	Units
6720	Surface Water 2.	Suspended Solids	<2	.mg/l
	Downstream	PH	7.0	pH Units
		Conductivity @20C	191	uS/cm
		Copper, total	<1	ug/l
	and the second se	Arsenic, total	<0.5	ug/l
		Zinc, total	<5	ug/l
		Chromium, total	<0.5	ug/l
		Nickel, total	<0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	1	ug/l
	E Carlos and	Molybdenum, total	0.6	ug/l
	11.5	Tin, total	<0.5	ug/l
		Beryllium, total	<0.5	ug/l
		Total Heavy Metals	1.6	ug/I
		Mineral Oil (by calculation)	70	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) by GC-FID	70 Unknown Pattern*	ug/I

* Note: The comment expressed here is an interpretation and is not INAB accredited.



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Barbara Le Barbara Lee Environmental Scientist

1	C L S	[Ema	luc, Co. Galway. 091 574355 1091 574356 il] services@cls.ie] <u>www.completelabsolution</u>	s.com
Client	: Dermot Lennon Lennon's Quarr Glen Castle Bunnahowen Ballina, Co.May	ies Da Sta Da o Oro	art Date of Analysis : 14/	/12/2012 /12/2012 /01/2013
	192	CERTIFICATE OF ANALYSIS		
Lab	Sample Description	1 Test	Result	Units
6721	Surface Water 3. Downstream	Suspended Solids pH Conductivity @20C Copper, total Arsenic, total Zinc, total Chiromium, total Nickel, total	<2 6.9 189 1 <0.5 12 1 <0.5	mg/l pH Units uS/cm ug/l ug/l ug/l ug/l ug/l
		Lead, total Antimony, total Cadmium, total Cobalt, total Selenium, total Tellurium, total Thallium, total	<0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l
•		Vanadium, total Molybdenum, total Tin, total Bervillium, total Total Heavy Metals Mineral OII (by calculation) Extractable Hydrocarbons Water (C8-C40, Di and Lube OII) by GC-FID	2 <0.5 <0.5 <0.5 16 91 91 Unknown Pattern*	ug/l ug/l ug/l ug/l ug/l ug/l
21	The comment expresse Bo meres NAB Merese TOTIMA Wiccow marks 1000	ed here is an interpretation and is not INAB acc App See reverse for Test Specifications	credited. proved by: <u>Barbara</u> Environmenta shall not be reproduced but in full with the p	Lee I Scientist

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,				
Client	: Dermot Lennon	Report No.	;	181945
Client	: Dermot Lennon Lennon's Quarries	Report No. Date of Receipt		181945 14/12/2012
Client		035300311252		
Client	Lennon's Quarries	Date of Receipt		14/12/2012
Client	Lennon's Quarries Glen Castle	Date of Receipt Start Date of Analysis		14/12/2012 14/12/2012

CERTIFICATE OF ANALYSIS

Lab	Sample Description	Test	Result	Units
6722	Surface Water 4. Downstream	Suspended Solids	<2	mg/l
		pH	6.7	pH Units
		Conductivity @20C	187	uS/cm
		Copper, total	<1	ug/I
		Arsenic, total	<0.5	ug/l
	1	Zinc, total	15	ug/l
		Chromium, total	0.6	ug/l
		Nickel, total	<0.5	ug/l
		Lead, total	<0.5	ug/l
		Antimony, total	<0.5	ug/l
		Cadmium, total	<0.5	ug/l
		Cobalt, total	<0.5	ug/l
		Selenium, total	<0.5	ug/l
		Tellurium, total	<0.5	ug/l
		Thallium, total	<0.5	ug/l
		Vanadium, total	2	ug/l
		Molybdenum, total	<0.5	ug/l
		Tin, total	<0.5	ug/l
	Contraction of the second	Beryllium, total	<0.5	ug/l
		Total Heavy Metals	17.6	ug/l
		Mineral Oil (by calculation)	138	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) by GC-FID	138 Unknown Pattern*	ug/l

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Barbara Lee Environmental Scientist

a	C C C S		Complete Laborato RosMuc, Co. Galwa [Tel] 091 574355 [Fax] 091 574356 [Email] services@c [web] <u>www.comple</u>	y. Is.ie	L.com
Client	: Dermot Lennon Lennon's Quarries Gien Castie Bunnahowen Ballina, Co.Mayo	•	Report No. Date of Receipt Start Date of Analy Date of Report Order Number Sample taken by	: 14/ ysis : 14/	946 12/2012 12/2012 01/2013 nt
		CERTIFICATE OF ANA	LYSIS		
Lab	Sample Description	Test		Result	Units
6723	Surface Water 5.	Suspended Solids		<2	mg/l
	Downstream	рН		6.5	pH Units
1		Conductivity @20C		187	uS/cm
		Copper, total		<1	ug/l
		Arsenic, total		<0.5	
					ug/l
		Zinc, total		14	ug/l
				14 0.7	
		Zinc, total			ug/l
		Zinc, total Chromium, total		0.7	ug/l ug/l
		Zinc, total Chromium, total Nickel, total		0.7 <0.5	ug/l ug/l ug/l
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		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total		0.7 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l
		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total Cobalt, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total Cobalt, total Selenium, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total Cobalt, total Selenium, total Tellurium, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
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		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cadmium, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total Molybdenum, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l
		Zinc, total Chromium, total Nickel, total Lead, total Antimony, total Cobalt, total Cobalt, total Selenium, total Tellurium, total Thallium, total Vanadium, total Molybdenum, total Tin, total		0.7 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5 <0.5	ug/l ug/l ug/l ug/l ug/l ug/l ug/l ug/l

Total Heavy Metals Mineral Oil (by calculation) Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) by GC-FID * Note: The comment expressed here is an interpretation and is not INAB accredited.



Approved by:

Barbara Lee Barbara Lee Environmental Scientist

72 72 Unknown

Pattern*

ug/l ug/l

See reverse for Test Specifications This report only relates to items tested and shall not be reproduced but in full with the permission of Complete Laboratory Solutions.



Complete Laboratory Solutions RosMuc, Co. Galway. [Tel] 091 574355 [Fax] 091 574356 [Email] services@cls.ie [web] www.completelabsolutions.com

Client 12 Dermot Lennon Lennon's Quarries Glen Castle Bunnahowen Ballina, Co.Mayo

: 181947 Report No. : 14/12/2012 Date of Receipt Start Date of Analysis : 14/12/2012 Date of Report : 09/01/2013 Order Number Sample taken by 1 Client

CERTIFICATE OF ANALYSIS

Lab No	Sample Description	Test	Result	Unit
6724	Surface Water 6.	Suspended Solids	26	mg/l
	Downstream	pH	6.7	pH Units
		Conductivity @20C	236	uS/cm
	Cul	Copper, total	5	ug/l
	Extra monitoring	Arsenic, total	0.7	ug/l
	-	Zinc, total	19	ug/l
	Point taken	Chromium, total	2	ug/l
		Nickel, total	1	ug/l
	from stream	Lead, total	1	ug/l
		Antimony, total	<0.5	ug/I
	that runs into	Cadmium, total	<0.5	ug/i
		Cobalt, total	0.6	ug/l
- 0	Clooneen River	Selenium, total	<0.5	ug/l
-	- MILEEN RIVET	Tellurium, total	< 0.5	ug/l
		Thallium, total	<0.5	ug/l
	OFF site	Vanadium, total	5	ug/l
	5	Molybdenum, total	1	ug/l
	See map	Tin, total	<0.5	ug/l
	in Appendix	Beryllium, total	<0.5	Ug/I
	III AFFCUAIX	Total Heavy Metals	35.2	ug/l
	1.A.	Mineral Oil (by calculation)	162	ug/l
		Extractable Hydrocarbons Water (C8-C40, Diesel Range and Lube Oil) by GC-FID	162 Unknown Pattern*	ug/l

* Note: The comment expressed here is an interpretation and is not INAB accredited.



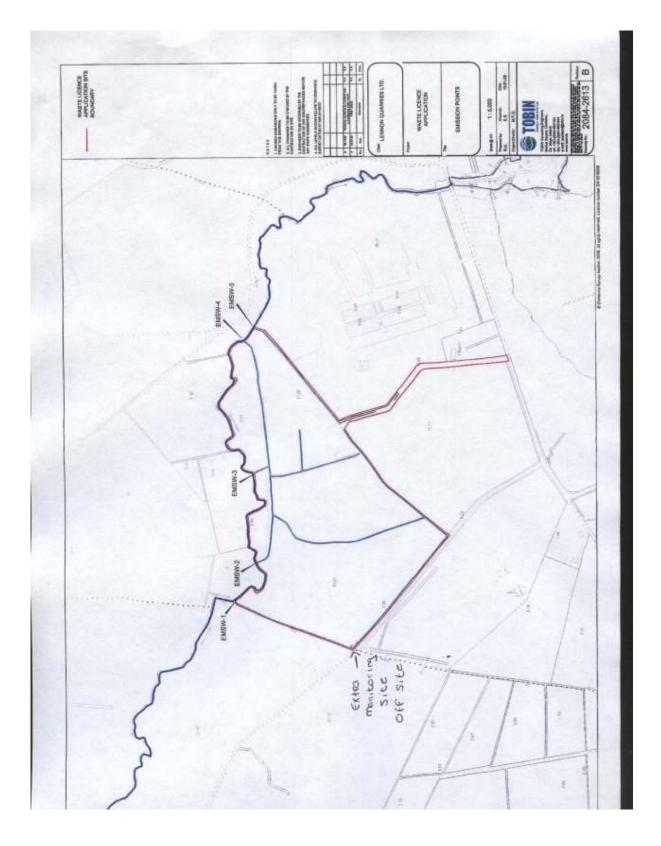
Approved by:

Barbara Le 1 Barbara Lee Environmental Scientist

the-

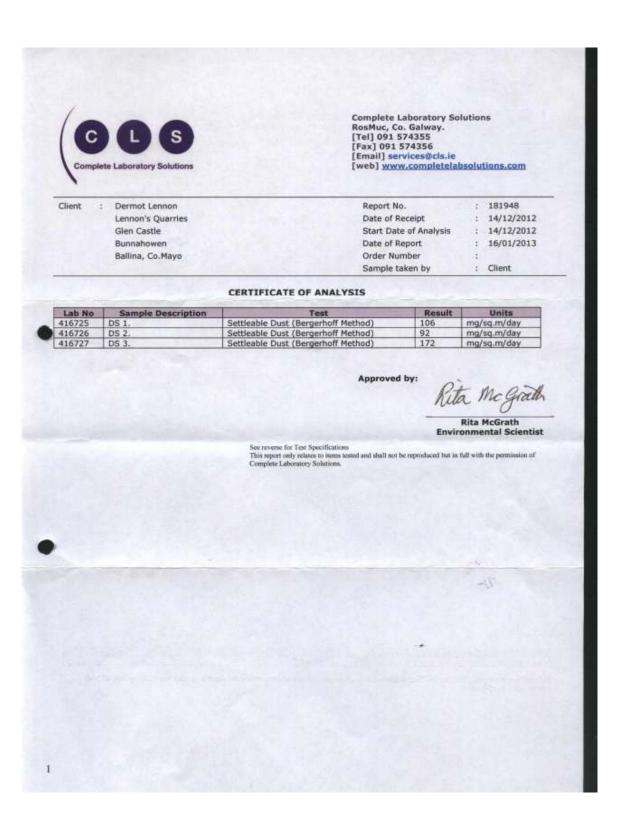
See reverse for Test Specifications This report only relates to items tested and shall not be reproduced but in full with the permission of Complete Laboratory Solutions.

Appendix 1.a



Appendix 2: Dust Monitoring Results

Comple	L S the Laboratory Solutions	RosMuc, C [Tel] 091 [Fax] 091 [Email] se	574356 ervices@cls.le		
Client :	Dermot Lennon Lennon's Quarries Glen Castle Bunnahoeen	Report N Date of I Start Da Date of I	Receipt ite of Analysis	: 172891 : 10/09/201 : 10/09/201 : 18/09/201	2
	Ballina, Co.Mayo	Order Nu Sample 1	umber taken by	: : Client	_
		CERTIFICATE OF ANALYSIS			
Lab No 397379	Sample Description	Test Settleable Dust (Bergerhoff Method)	Result 55	Units mg/sq.m/day	
397380	DS 2.	Settleable Dust (Bergerhoff Method)	60	mg/sq.m/day	
397381	DS 3.	Settleable Dust (Bergerhoff Method) Approved See reverse for Test Specifications This report only relation to items tested and shall not Complete Laboratory Solutions.	d by:Bc	mg/sq.m/day	tist
397381	DS 3.	Approver See reverse for Test Specifications This report only relation to items tosted and shall not	d by:Bc	mg/sq.m/day	tist
397381	05 3.	Approver See reverse for Test Specifications This report only relation to items tosted and shall not	d by:Bc	mg/sq.m/day	tist
397381	DS 3.	Approver See reverse for Test Specifications This report only relation to items tosted and shall not	d by:Bc	mg/sq.m/day	tist
397381	105 3.	Approver See reverse for Test Specifications This report only relation to items tosted and shall not	d by:Bc	mg/sq.m/day	tist



Appendix 3: Bird Survey Report

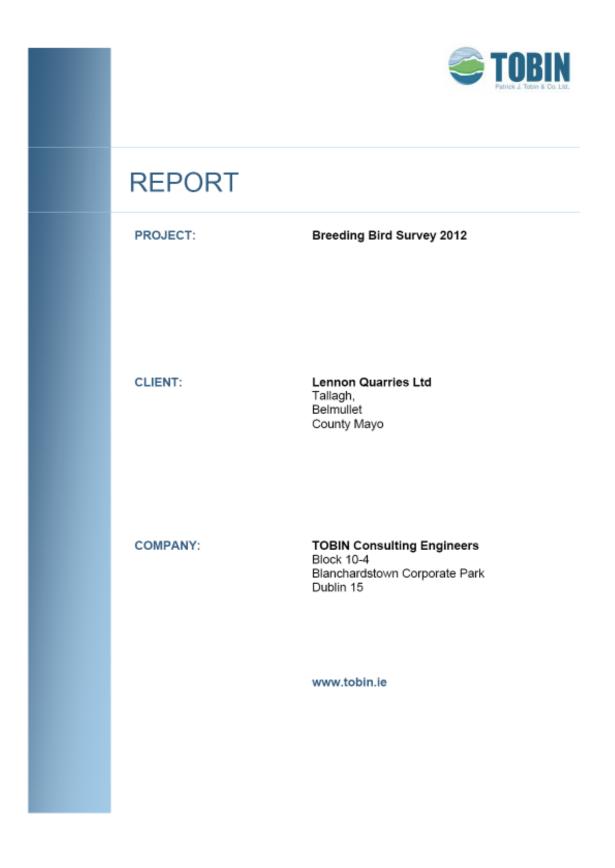
LENNON QUARRIES LTD

Breeding Bird Survey 2012 At Tallagh, Belmullet, Co Mayo

August 2012







Breeding Bird Survey 2012



DOCUMENT AMENDMENT RECORD

Client:	Lennon Quarries Ltd
Project:	Material Recovery Facility at Tallagh, Belmullet, Co Mayo.
Title:	Breeding Bird Survey 2012

PROJECT	JECT NUMBER: 2084			DOCUMENT REF: 2084 BBS			
A	Draft Report	RM	03/08/12	ES	08/08/12	DG	08/08/12
Revision	Description & Rationale	Originated	Date	Checked	Date	Authorised	Date
	то	BIN Consu	Iting Eng	ineers			



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2	SITE DESCRIPTION/ CONTEXT	1
3	METHODOLOGY	1
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5	CONCLUSION	5





1 INTRODUCTION

TOBIN Consulting Engineers were commissioned by Lennon's Quarries Ireland Ltd to undertake a survey of the breeding birds on an existing material recovery facility at Tallagh, Belmullet, Co Mayo. This survey is required to comply with condition 6.14 of the waste license for the site (License Register Number: W0256-01) as detailed below.

6.14 Bird Survey

The licensee shall carry out an annual breeding bird survey, unless otherwise required by the Agency. The survey shall record the number of birds of conservation concern utilising the site. The results of this assessment shall be reported as part of the Annual Environmental Report.

The survey was carried out by an experienced bird surveyor from Tobin Consulting Engineers (> 11 years relevant experience). The key aims were to record species of conservation concern on the site and immediate environs.

2 SITE DESCRIPTION/ CONTEXT

The site consists predominantly of cutover bog and wet grassland within a landholding of 27.22ha (including entrance road). Within this area the inert material recovery facility is present and extends to c.a. 2HA currently. Also present are new settlement ponds and a stream on the site boundary.

The wider landscape surrounding the site is very open with few trees. Dominant habitats consist of degraded bog, less degraded bog areas, marginal farmland, more improved farmland, scattered housing and coastal habitats. Noteworthy features are an area of nettle beds adjacent to a mushroom facility close to the site boundary (offsite).

These habitats and the coastal location of the site influence bird usage of the site.

3 METHODOLOGY

The site was surveyed for the presence of breeding birds on 31st July 2012. While this is relatively late in the breeding bird season, it is still a suitable period for detecting breeding birds and falls within the recommended season for surveying breeding birds (see Ciria 587 guidelines for when to survey birds¹).

The survey area included the site and a buffer zone of approximately 100m around the site boundary.

¹ http://www.solihull.gov.uk/Attachments/Ecological_Surveys_Calendar.pdf



Breeding Bird Survey 2012



Populations of birds breeding on site were assessed by carrying out a breeding bird survey based on the methodology devised for the Countryside Bird Survey (CBS). The CBS is a scheme organised by BirdWatch Ireland that is used to assess populations of breeding birds throughout Ireland.

The methodology involved walking two transects across the survey area and also walking around the entire site boundary. All birds seen or heard from each transect were recorded on field maps in order to ensure that no birds were counted twice. A summary of breeding birds noted on the site and in the vicinity of the site, their breeding status and conservation status is detailed herein.

During the survey regular stops were made to scan and listen for birds, including immediately adjoining areas beyond the proposed site boundary. Site visits were carried out to coincide with the diurnal peak of bird activity (06.00 – 13.00).

Weather conditions during all the site visit was mild and clear with light winds up to 10am after which some showers started. Overall weather conditions were adequate for survey.





4 RESULTS

A summary of all birds recorded is provided in Table 1.

Table 1 Birds Recorded on site/ adjacent areas, conservation status and comments

Common Name	Latin Name	Conservation Status ²	Breeding Status on site ³	Comments
Corncrake	Crex crex	Red. Annex 1	b	Not recorded during survey. 1 male was present in area of nettles off site but within 100m buffer zone throughout summer 2012. No breeding habitat exists on site for this species.
Hooded crow	Corvus corone cornix	Green	с	Foraging on site. No breeding habitat on site or buffer zone.
Lesser Black Backed Gull	Larus fuscus	Amber	с	Flew over site. No breeding habitat on site.
Linnet	Carduelis cannabina	Amber	В	2+ pairs breeding on site boundary in scattered gorse bushes.
Meadow pipit	Anthus pratensis	Green	В	Common breeding bird on the site. Small flocks of adults and juveniles (> 15) noted on site
Pied Wagtail	Motacilla alba yarrellii	Green	b	Noted off site. No breeding habitat on site. Potentially breeds in buffer zone.
Rock Dove	Columba livia	Green	c	2 flew over site. Coastal species no breeding habitat on site.
Skylark	Alauda arvensis	Amber	В	1 recorded on site. Probably breeding here as common in wider area and suitable breeding habitat exists.
Starling	Sturnus vulgaris	Amber	с	Small foraging flocks (>30 total) on site. No breeding habitat on site or buffer zone.
Swallow	Hirundo rustica	Amber	c	2+ individuals noted foraging over the site. No breeding habitat on site or buffer zone.
Wren	Troglodytes troglodytes	Green	В	5 plus territorial males noted around the site boundary only. Probable breeder on site

A total of 10 different bird species were recorded during the survey. In addition another species was informed of by locals as being close to the site (within 100m buffer zone) throughout summer 2012 -

and of high conservation concern. ⁹ B = Probably breeding on site including within the 100m buffer zone, b = Unlikely to be breeding on site probably breeding in buffer zone or closeby, C = Not breeding on site or buffer zone.



² Species of conservation concern in Ireland: Lynas P., Newton S.F. & Robinson J.A. 2007. The status of birds in Ireland: an analysis of conservation concern 2008-2013. *Insh Birds* 8 :149-166. Amber listed = Breeding species of moderate conservation concern in Ireland. Green listed = Breeding species not currently of conservation concern in Ireland. Annex 1 = Species listed on Annex 1 of Birds Directive and of high conservation concern.

Breeding Bird Survey 2012



total = 11. Most of these birds (7) were not breeding on the site but were recorded foraging, flying over the site or breeding in adjacent areas including the buffer zone.

No species of high conservation concern were recorded during the survey, including red listed (Lynas et al., 2006)⁴ and or species included on Annex 1 of the EU Birds Directive. No species of high conservation concern are likely to use the site.

A male Corncrake (*Crex Crex*) was noted calling throughout summer 2012 by a local person, in a field of nettles adjacent to the site. This species is globally threatened and listed on Annex 1 of the EU Birds Directive. It is also a red listed breeding species of high conservation concern. No suitable habitat for this species exists on the site and ongoing activities will have no impact to this species.

Five species of moderate conservation concern were recorded. Of these only Skylark and Linnet probably breed on the site.

All species recorded are typical common bird species of open moorland/ marginal farmland in North West Mayo.

⁴ Species of conservation concern in Ireland: Lynas P., Newton S.F. & Robinson J.A. 2007. The status of birds in Ireland: an analysis of conservation concern 2008-2013. *Irish Birds* 8 :149-166.



Breeding Bird Survey 2012



5 CONCLUSION

The current operations are not significantly impacting breeding bird species including species of conservation concern detailed.

It is recommended that ongoing yearly bird monitoring continue. This is to inform if further mitigation is required based on species of conservation concern breeding status on the site, which could change.



Appendix 4

Letters Supporting Increase in Tonnage July – December 2012



West-Rorth West Region Environmental Protection Agency Regional Impectorate, John Moore Road Castlebar, County Mayo, Initiand

T: +353 94 904 8440 F: +353 94 904 8499

E. info@vpia.ie

W www.eps.ie loCall 1890 33 55 99

Cigireacht Reigionach, Bothar Shean de Móntha Caslwan an Bharraigh, Contae Mhaigh Eo, Èire

Mr Thomas Lennon Lennon Quarries Limited 2 Glencastle Bunnahowen Ballina Co. Mayo

10/07/12

Our Ref: W0256-01(12)GE02MH.docx

Dear Mr Lennon

I refer to the correspondence from Tobin Consulting Engineers which was received by the Agency on 06/07/12 in relation to the annual tonnage of waste which can be accepted at your facility.

The proposal submitted is to the satisfaction of the Agency contingent on the following:

- the total quantity of waste accepted at the facility from 01/07/2012 to 31/12/12 shall not exceed 10,335 tonnes
- the annual tonnage limit of 24,900 will apply from 01/01/13 and each calendar year thereafter
- compliance with the conditions of waste licence Reg. No. W0256-01.

Please quote the above reference in future correspondence in relation to this matter.

Yours sincerely

P.P.-Tool 100

Dr Michael Henry, Senior Inspector Office of Environmental Enforcement

Consulting Engli			-	TOBIN
Consulting Engli				Constituing Engineers
a a material and a material	neers			weeker ditalisi y
Black 16-4, Blanchardstrein Corporate Park, Dublin 15, Instand, Tet: +353 (0)1 8030401/6 Parc: +353 (0)1 8030409/10	Fairgreen House, Fairgreen Road, Galway, Ireland, Tel: +353 (0)91 565398 Faix: +353 (0)91 565398	Market Squark, Castlebar, Co. Mayo, Ireland Tel: +253 (0)94 9021401 Fax: +353 (0)94 9021534	ul. Cyslmsów 9. 31-553 Kraków. Pound. Tel: +48 12 353 8646 Fae: +48 12 353 7329	CAB International. Notworthy Way, Wallingford, Oxfordothre, OX10 80E, United Kingdon Tel: +44 1491 829327 Fax: +44 1491 833508
Dr. Michael Henry	Esq			
Office of Environme	ental Enforcement			
John Moore Road				
Castlebar				
Co. Mayo				
05th July 2012				
RE Licence WO256	-01			

I refer to recent discussions re the above between the Agency and our client, Lennons Quarries Ltd, and would like to confirm the current situation as pertains to annual tonnage allowance at the site.

It is the understanding of our client, following his most recent discussions with Yourself, that the Agency's position is that he may operate the site from time of writing to the end of this Calendar year on a pro rata basis of the annual tonnage allowance, on a six month basis from July to December 2012.

This equates to an allowance of 12,450 tonnes, being half the annual licence limit of 24,900. To be subtracted from this amount is an amount of 2,095 to cater for tonnage accepted for construction materials last year. Subtracting this amount would give rise to a tonnage allowance of 10,335 tonnes to end of the Calendar year.

It is on the basis of this remaining tonnage allowance of 10,335 to December 31st 2012 that our client intends to proceed. The licence annual tonnage amount of 24,900 will then be in place for the Calendar year beginning January 1st 2013.

Directore: L.E. Waldron (Chairman) R.F. Yobin (Managing Director) B.J. Downes M.F. Garrick J.P. Kelly S. Finlay P. J. Fogarty D. Grehan E. Connaughton (Company Secretary) M. McDonnell C. McGovern B. Multigan C.O'Keattle



Associates: T. Cannon P. Cloonan D. Conneran B. Gallagher B. Hesney M. Hogan B. Hulchineon D. Kennedy E. McPartilin S. Timtelly

Co. Bao Mr. 19851 - Baostalind Office: Fairment House, Fairment Road, Gatear, Iroland,

I would greatly appreciate if you could confirm that this is indeed the position of the Agency and that our client can proceed for the remainder of the calendar year on the basis as outline above. An early reply would be appreciated. Yours sincerely 50 Sean Finlay Director