

CERTIFICATE OF ANALYSIS

1 of 1

Account # : Patton Bros. Quarry Gotletteragh, Castlebane, Stranorlar,	Report No : 08-03436 No. Of Samples : 1 Acceptance Date : 19/09/2008 Analysis Date : 19/09/2008 Date of Issue : 15/07/2009 Contact :
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Comments 1 x sample Water from Settling Ponds Patton Bros Lagoons No: 2
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SAMPLE NO	SAMPLE TYPE	CLIENT REF	TEST METHOD	TEST DESCRIPTION	RESULT/ UNITS
08-03436-(01)	Water	Sample 1	APHA	Suspended Solids	<1.0 mg/l
			APHA	BOD	0.95 mg/l
			APHA	pH	7.27
			APHA	pH	7.29
			APHA	BOD	1.18 mg/l



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 This report relates only to the items tested

Revision: 4
 Date Issued: 01/07/09

Checked By:
 Brid Ward

Deputy Quality Manager
 Julie Cassidy



LOCAL GOVERNMENT (WATER POLLUTION) ACT, 1977

**LOCAL GOVERNMENT (WATER POLLUTION)
(AMENDMENT) ACT, 1990.**

Licence to discharge trade effluent to waters

LOCAL AUTHORITY DONEGAL COUNTY COUNCIL

To: **Patton Bros Quarry Ltd,**
Castlebane,
Stranorlar,
Co Donegal.



Reference Number in Register Lwat 63.

Donegal County Council in exercise of the powers conferred on it by the Local Government (Water Pollution) Act, 1977 and the Local Government (Water Pollution) (Amendment) Act, 1990 hereby grant an effluent discharge licence to discharge effluent from the quarry of **Patton Bros Quarry Ltd.** known as the **Patton Brothers Quarry at Gortletteragh, Ballyhofey** to a tributary stream of the **River Finn** at Gortletteragh, Ballyhofey subject to the following conditions :

1. **General layout and Operations :**
 - 1.1 This licence shall be in respect of the discharge of trade effluent arising in that part of the licensee's lands known as the Patton Brothers Quarry located at Gortletteragh, Ballyhofey, County Donegal.
 - 1.2 Settlement Lagoons with an associated oil interceptor are to be installed and maintained to ensure the quality of final effluent meets the limits specified in section 2.3. The interceptor is to be of sufficient size as to ensure treatment of the discharge. A record of interceptor maintenance is to be kept on site and should be available for inspection. The records should detail all servicing and inspections of the oil interceptor
 - 1.3 No water or effluent shall be piped or otherwise conveyed to the Patton Brothers Quarry from any other part of the licensee's lands.
 - 1.4 No domestic sewage or hydrocarbon oils shall be discharged with or allowed to mix with the effluent arising in the Patton Bros Quarry.
 - 1.5 The licensee shall not dispose of any sludge arising in the settlement lagoons or other areas of the Patton Brothers Quarry other than in accordance with a waste disposal permit issued by the licensing authority.

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- 1.6 The Patton Brothers Quarry site shall be laid out, operated and maintained in such a manner as to prevent the discharge of any polluting matter to the receiving waters other than via the on site water treatment systems.
- 1.7 In the event of pollution of the receiving waters arising from the licensee's activities, whether due to accidental discharge or discharge other than in accordance with the terms and conditions of this licence, the licensee shall make good all damage ~~resulting from such~~ pollution, including, if necessary :
- (a) the replacement of fish stocks;
 - (b) the restoration of spawning grounds;
 - (c) the removal of pollutant from waters;
 - (d) the modification of it's discharge regime to prevent recurrence;
 - (e) such other measures as may be directed by the Local Authority.
- 1.8 In the event that any observations are made by persons authorised under the Water Pollution Act 1977/90, on the quality or appearance of the surface water discharge indicating that contamination has taken place, the licensee shall :
- (a) carry out an immediate investigation to identify and isolate the source of contamination,
 - (b) put in place measures to prevent further contamination and to minimise the effects of any contamination on the environment, and
 - (c) notify the Local Authority and the Loughs Agency (048 713421000) as soon as practicable.
- 1.9 The licensee shall submit a site environmental response plan, for formal approval by Donegal County Council, which should outline response plans for use in the event of pollution of the receiving waters arising from the licensee's activities, whether due to accidental discharge or discharge other than in accordance with the terms and conditions of this licence.
- 1.10 The licensee shall ensure that vehicles used for transport of materials from the premises are designed to prevent spillage and dust blow. If dust or liquid deposits occur on the public roads, drains or hedges as a result of the operations on the site, that may enter into the local drainage system contravening the limits set in this licence, the licensee shall clean up all deposits immediately.
- 1.11 All tank and drum storage areas for fuel or other oils shall be rendered impervious to the materials stored therein. In addition, tank and drum storage areas shall, as a minimum, be bunded, either locally or remotely, to a volume not less than the greater of the following:
- (i) 110% of the capacity of the largest tank or drum within the bunded area,
 - (ii) 25% of the total volume of substance, which could be stored within the bunded area.
- 1.12 The integrity and water tightness of all the bunding structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee to the satisfaction of Donegal County Council within six months of granting of this Licence. In order to ensure continued compliance with this condition, integrity testing of all bunding structures shall be carried out on an annual basis, by an approved contractor.



- 1.13 The licensee shall have an independent Engineering Consultant carry out an annual inspection and risk assessment of all lagoon structures to confirm their stability. The risk assessment should detail and take into account procedures to be used in sludge removal /maintenance and should outline relevant control measures.
- 1.14 All vehicles leaving the quarry site must pass through a wheelwash facility. All run-off from the wheelwash facility must be directed to the settling lagoon system where the solids are to settle out before the liquid discharges under licence conditions.
- 1.15 All roads/tracks within the site and all processing/handling equipment must be maintained in a dampened condition during dry weather to prevent dust blow. All run-off from such spraying and dampening processes must be directed to the settling lagoon system.
- 1.16 Discharges from lorry/car washing facilities shall not enter the oil interceptor system as detergents in such discharges can emulsify oil trapped in the interceptor and allow it to escape. Lorry/car wash discharges must have a suitable grit trap and treatment which will prevent polluted effluent reaching any nearby watercourse.
- 1.17 Untreated effluent from lorry/car washing shall not be disposed of to waters.
- 1.18 Best environmental practice should be implemented when working close to watercourses. The potential for deleterious matter to enter a watercourse is of primary concern.



2. Effluent Volume and Characteristics :

- 2.1 The total volume of treated effluent to be discharged shall not exceed the following limits:

Parameter	Units	Limit(s)
Max Volumetric flow per day (24 hours)	M ³	25
Max Volumetric flow per hour	M ³	2

- 2.2 Oils and grease shall not be present in effluent in such quantities as to:

- (a) form visible films on the surface of the water;
- (b) form coatings on the river bed, benthic biota or food resources;
- (c) cause deleterious effects on aquatic life;
- (d) impart a detectable taste or odour on edible aquatic species.

- 2.3 Effluent as discharged shall comply with the quality standards set out hereunder in respect of the following parameters:

Parameter	Units	Limit(s)
pH	pH units	6 - 9
B.O.D.	mg/litre	5
Suspended Solids	mg/litre	20

3. Monitoring Regime :

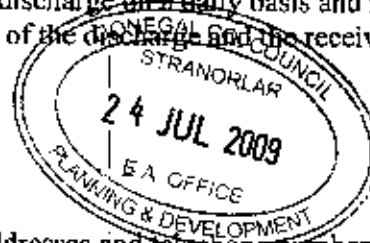
- 3.1 An accessible sampling point shall be provided which is representative of the final Discharge. The location of this sampling location is subject to the approval of Donegal County Council.
- 3.2 The licensee shall commission an independent accredited laboratory to take and analyse samples of the discharge on a bi annual basis. The samples shall be taken at a time when the quarry is in operation. The samples shall be taken so as to be representative of the effluent discharge.
- 3.3 The samples shall be analysed for the following parameters: pH and Suspended Solids.
- 3.4 The results of all samples taken within the calendar month shall be forwarded to the Licensing authority within ten working days of the end of that month.
- 3.5 The licensee shall conduct a visual inspection of the discharge on a daily basis and maintain a record book of the inspections noting the condition of the discharge and the receiving waters.

4. Access by Authorised Personnel :

- 4.1 Details of emergency contact personnel, including addresses and telephone numbers, shall be made available to the licensing authority within one month of the date of grant of this licence. At least one such person shall be available for contact at all reasonable times, having due authorisation from the licensee to expediate emergency measures as may be required.
- 4.2 Authorised Officers of the Licensing Authority, or its agents, or any person authorised under section 28 of the Local Government (Water Pollution) Act 1977 as amended by section 19 of the Local Government (Water Pollution) (Amendment) Act, 1990 shall have access to the licensee's site at all times.
- 4.3 Authorised Officers of the Loughs Agency, or any person authorised under The Foyle Fisheries Act (1952) shall have access to the discharge point for the purpose of sampling and assessing water quality for fisheries. It should be noted that it is an offence under Section 41 of the Foyle Fisheries Act 1952 to cause pollution which is detrimental to fisheries interest.

5. Change of Development :

- 5.1 The licensee shall notify the Licensing Authority of any proposed change in the operation of the quarry or plant that would cause, or be likely to cause, a material alteration in the nature, or increase in the volume of effluent discharged.
- 5.2 No changes in relation to the discharge (flow rates, effluent concentrations) shall take place without prior written agreement of the licensing authority.
- 5.3 The licensing authority shall interpret whether any such change is material or not, and whether a review of the licence is required as a result.



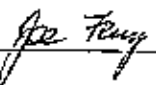
6. Monitoring of Receiving Waters:

6.1 The licensee shall commission, from a competent independent person, annual sampling of the receiving stream into which the effluent discharges, at a representative location upstream of the discharge and a representative location downstream of the discharge. The samples should be analysed for the following parameters: pH, and suspended Solids.

7. Contributions to the Licensing Authority :

7.1 The licensee shall pay the licensing Authority the costs incurred by the licensing authority of monitoring the discharge, subject to a minimal annual payment of €269 (two hundred and sixty nine euro). The licensee shall pay this amount within one month of the date of grant of this licence, and in subsequent years, not later than the 31st January each year, pay that amount to the local Authority. The minimum annual payment shall be updated annually in accordance with Table 5 of the All Items Index (base at December 2001 = 100) published by the Central Statistics Office. The licensing authority shall notify the updated amount to the licensee.

7.2 The licensee shall pay the Licensing Authority such additional fees, as the Licensing Authority considers necessary for the carrying out of any confirmatory or specialist testing during the life of the licence.



Joe Perry (Dr)
Executive Scientist



Dated this 15/12/2008

Note.

Please note that this licence is one granted solely for the purposes of the Local Government (Water Pollution) Acts in respect of discharge of trade effluent. Any permissions or consents required under other legislation (including planning permission) need to be sought separately. The issue of the licence is not therefore to be taken as implying that you can proceed with operations which are not so authorised where required under separate legislation.

Appeals

You are advised that a person to whom a licence has been granted may appeal, under Section 8 of the Local Government (Water Pollution) Act, 1977, as substituted by Section 6 of the Local Government (Water Pollution) Act, 1990, to an Bord Pleanála in relation to the grant. Such appeal should be made in writing, within one month from the date of grant of the licence stating the subject matter of the appeal and the grounds of the appeal. Any appeal to An Bord Pleanála must be accompanied by a fee of €126.