

CONSENT NO: 068/12/2

FILE NO: TC 40/12_2

DEPARTMENT OF THE ENVIRONMENT

Water (Northern Ireland) Order 1999

Consent to Discharge of Effluent (Review)

TO: Dalradian Gold Ltd.
3 Killybrack Road
Omagh
County Tyrone
BT79 7DG

The Department of the Environment in pursuance of the powers conferred on it by the Water (Northern Ireland) Order 1999 HEREBY CONSENTS to your making a discharge into the Waterway at Irish Grid Reference H 5707 8690 in accordance with the original application dated 06 March 2012 and the review application dated 30 May 2013 in respect of a discharge of site drainage arising from an underground exploration tunnel situated at Curraghinalt, Gortin, County Tyrone, BT79 7SF

SUBJECT TO the following conditions:

1. The effluent discharged to the waterway shall not:
 - a. contain suspended solids in excess of 50 milligrams per litre (measured after drying at 105⁰C);
 - b. have a biochemical oxygen demand in excess of 10 milligrams per litre (measured after 5 days at 20⁰C with nitrification suppressed by the addition of allyl-thiourea);
 - c. have a pH value less than 6 nor greater than 9;
 - d. total zinc shall not exceed **33.8 ug/l**;
 - e. dissolved mercury shall not exceed **1.7 ug/l**
 - f. dissolved cadmium shall not exceed **0.7 ug/l**;
 - g. dissolved iron shall not exceed **3.9mg/l**

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- h. dissolved copper shall not exceed **16.2 ug/l**;
- i. contain any visible oil or grease.
- j. contain any substance (other than as defined above) which will cause the waterway or water in an underground stratum to be toxic or injurious to fish or other aquatic organisms;
- k. contain any substance (other than as defined above) to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters, and
- l. sampling of the discharge shall be carried out monthly by the consent holder and reported to the Department (NIEA) quarterly. The sample shall be analysed for the parameters listed in condition **1 a – k**. In addition, the sample shall be analysed for the parameters listed below. Samples shall also be taken immediately upstream and 5 metres downstream of the confluence of the discharge point and the Curraghinalt Burn, *and immediately upstream and 5m downstream of the confluence of the Curraghinalt Burn and the Owenkillew River. The samples shall be analysed on each occasion for the same parameters:*
 - i) total zinc;
 - ii) dissolved chromium;
 - iii) dissolved nickel;
 - iv) dissolved arsenic;
 - v) dissolved mercury;
 - vi) dissolved cadmium;
 - vii) dissolved iron;
 - viii) dissolved lead;
 - ix) dissolved copper;
 - x) total hardness as CaCO₃

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Where levels of any of the substances listed in i-x above, for which no specific limits are set in condition 1 of this consent, are detected in a concentration that would breach the Environmental Quality Standard (EQS) in the waterway, then Action Plans to reduce the substances(s) in question in the discharge must be developed and agreed with the Department (NIEA).

2. Facilities shall be available to ensure that a representative sample of the discharge can be obtained. The sampling point shall be located after the treatment system.
3. The sample point for this discharge shall be labelled and maintained so that it is freely available and accessible to authorised officers of the Department.
4. Authorised officers of the Department shall be allowed to readily and safely obtain a sample of the effluent, measurement of flow, images of discharge or other data relative to the discharge at all times.
5. The water treatment system and discharge flows shall be maintained and regulated to ensure that the consent conditions are met at all times.
6. Under the requirements of the Control of Pollution (Oil Storage) Regulations (Northern Ireland) 2010 all oil storage must comply with the appropriate requirements as laid out in the regulations. Oil in the regulations is defined as "any kind of oil, including diesel, heating, waste, vegetable and plant oil". The only exemptions to the regulations are: (a) any property used mainly as a private dwelling if the storage capacity is 3500 litres or less, (b) any storage below 200 litres, (c) any storage on a farm regulated by COMAH or (e) any container wholly underground.
7. Bunds shall be provided around all chemical storage tanks to reduce the risk of pollution of waterways and groundwater from spillage or leakage.
8. The storage of any chemicals or dangerous substances not listed on the original consent application shall be notified immediately to the Department (NIEA).

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9. Any change of process, or introduction of new process chemicals not specified on the original consent application shall be notified immediately to the Department (NIEA).
10. The discharge shall not cause any visible change to any part of the waterway either at the discharge point or at any point downstream.
11. The person making the discharge to which this consent relates shall be responsible at all times for compliance with all consent conditions and payment of all annual charges.
12. Should the consent holder wish to transfer responsibility for this consent they must submit an application for transfer of ownership within 21 days of the transfer taking place.
13. If the consent holder intends to change anything at the site which will impact on the content of this consent and / or the composition or quality of the effluent then they must make application to the Department for review of this consent. Review application should be made no later than 4 months before the proposed changes will be carried out.

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INFORMATIVES



This discharge consent may be reviewed at any time, if the area of discharge or any area downstream, has been, or becomes designated under the European Communities Nature Conservation (Natural Habitats etc) Regulations (Northern Ireland) 1995 or the consent conditions do not meet the requirements of any other European Community Directive.

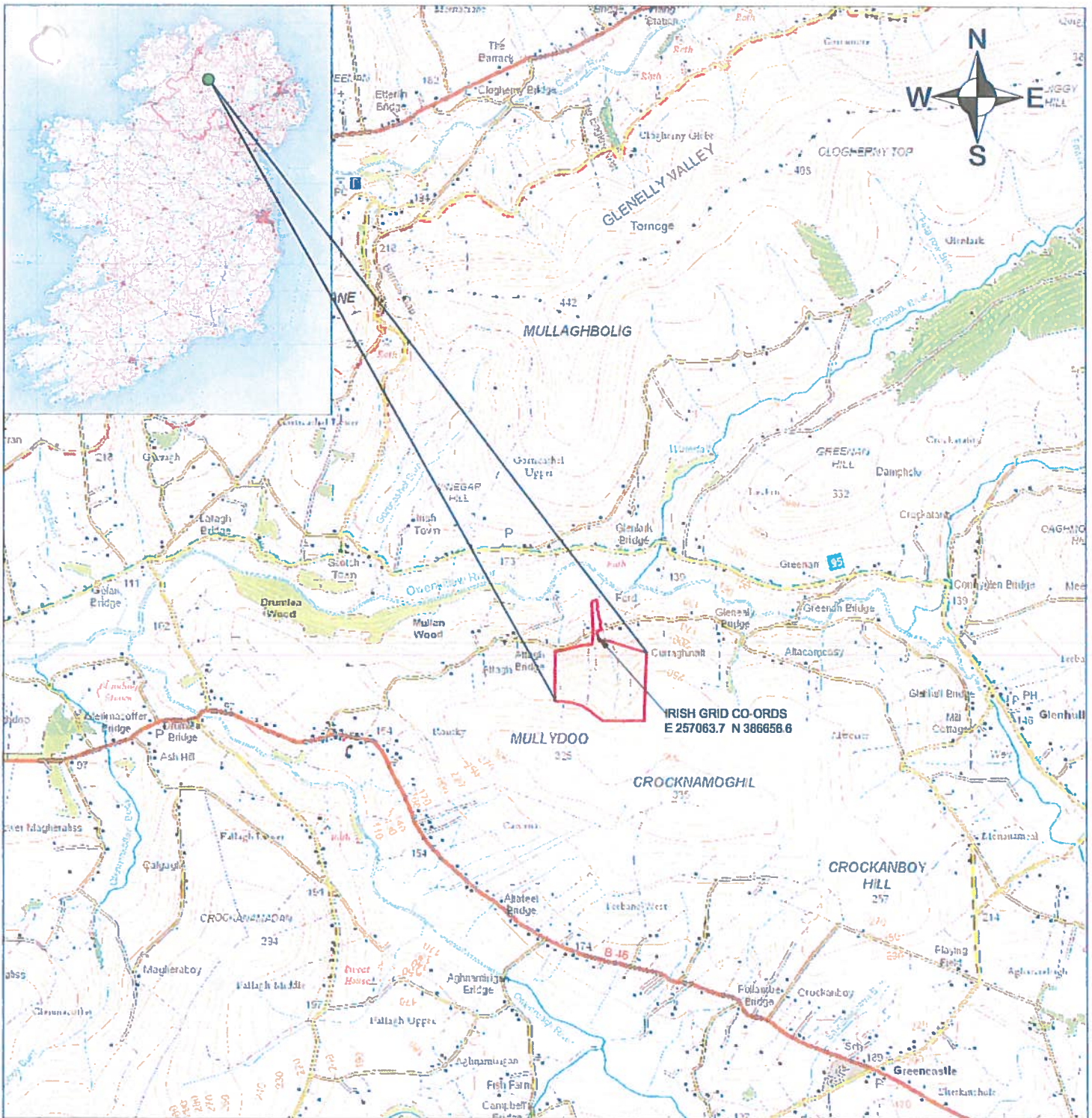
The relevant Environmental Quality Standards (EQS) for Condition 1 are set out below and were taken from The Water Framework Directive (Priority Substances and Classification) Regulations (Northern Ireland) 2011:

- i. dissolved chromium (measured as a total of VI and III) 8.1ug/l;
- ii. dissolved nickel 20 ug/l;
- iii. dissolved arsenic 50 ug/l;
- iv. dissolved lead 7.2 ug/l.

Dated this 6 day of February 2014

**Northern Ireland Environment Agency
Water Management Unit
17 Antrim Road
Lisburn
Co Antrim
BT28 3AL**


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AUTHORISED OFFICER



NOTES:

1. (c) CROWN COPYRIGHT AND DATABASE RIGHT LICENCE NO. 2643 JUNE 2012
2. UNDERGROUND EXPLORATION TUNNEL EXTENSION WILL ONLY OCCUPY UP TO 1 HECTARE, OR 2% OF THE OVERALL PLANNING APPLICATION AREA

LEGEND:



PROJECT PLANNING APPLICATION AREA
(c.49.4 Hectares)

UNDERGROUND EXPLORATION AREA

DEPARTMENT OF THE ENVIRONMENT
This is the map relating to
consent no. 068/12/2
File TC 40/12-2
granted under the Water (Use and Control) Act 1970
Authorised Officer:
Map reproduced from the Ordnance Survey with the permission of HMSO & Crown Copyright.



DALRADIAN
GOLD



24 BALLYNAHINCH STREET
HILLSBOROUGH
COUNTY DOWN
N. IRELAND BT26 2AW
T: +44 (0)28 92889038
F: +44 (0)28 92881037
www.slrconsulting.com

CURRAGHINALT GOLD PROJECT
CO. TYRONE

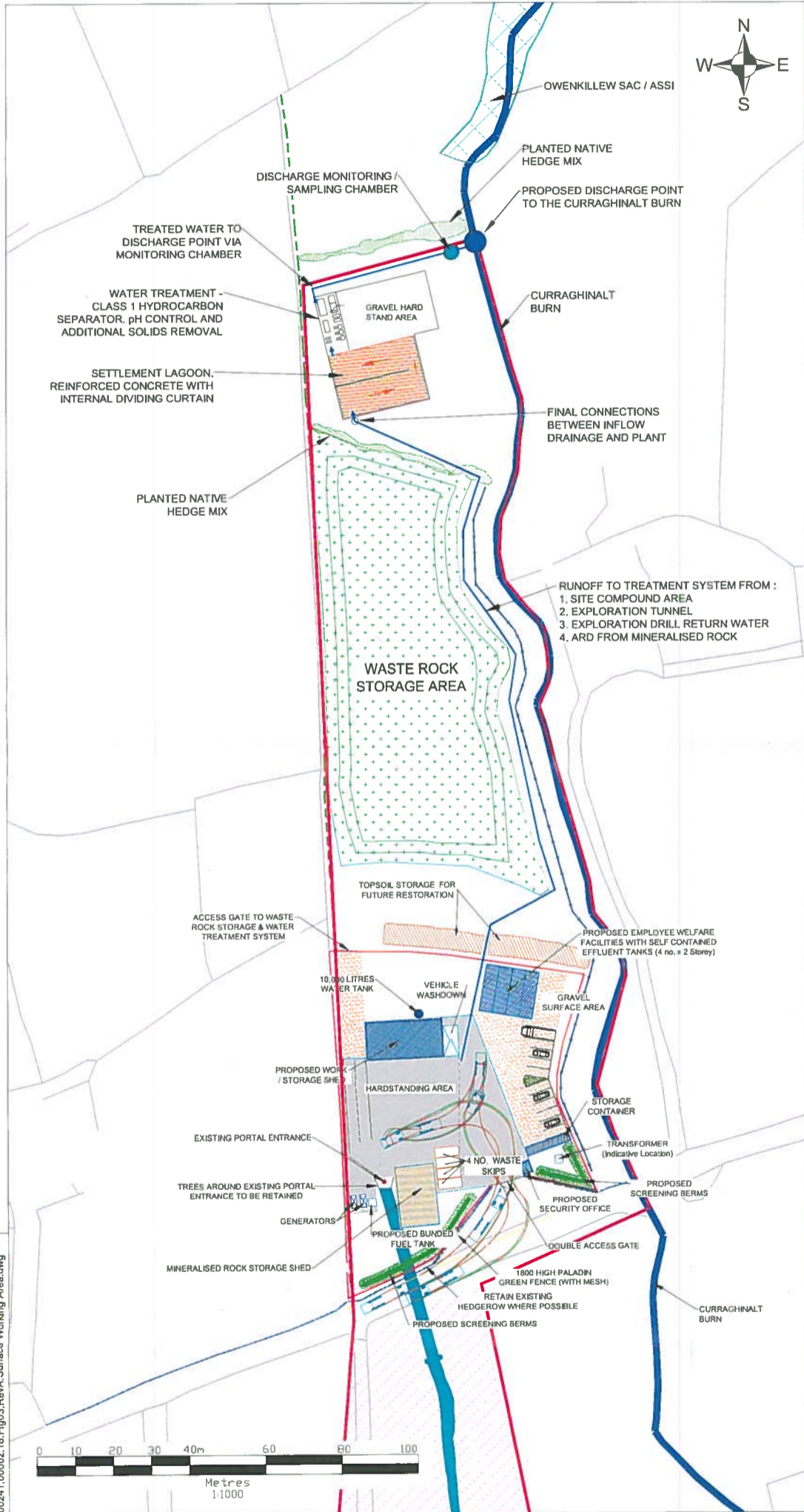
PROPOSED EXPLORATION TUNNEL
EXTENSION DISCHARGE CONSENT

SITE LOCATION MAP

FIGURE 01

Scale
1:50,000 @ A4

Date
07.05.2013



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LEGEND

- PROJECT PLANNING APPLICATION AREA (c.49.4 Hectares)
- SURFACE WATER COURSE

DALRADIAN
GOLD

SLR
24 BALLYVAHINCH STREET
HILLSBOROUGH
COUNTY DOWN
N. IRELAND BT26 2AW
T: +44 (0)28 92589036
F: +44 (0)28 92581037
www.slrconsulting.com

**CURRAGHINALT GOLD PROJECT
CO. TYRONE
PROPOSED EXPLORATION TUNNEL
EXTENSION DISCHARGE CONSENT
SURFACE WORKING AREA**

FIGURE 03.RevA

Scale 1:1,000 @ A3 Date JANUARY 2014

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DEPARTMENT OF THE ENVIRONMENT
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