

2 0 APR 2017

WATER (NORTHERN IRELAND) ORDER 1999

16061468-

MAIN APPLICATION FORM (WO1)

Application for new consent/variation to an existing consent* to discharge (*delete as appropriate)

NB: If application is in respect of a single domestic dwelling a separate form (WO2) should be completed.

RETURN TO:	Official UseOnly
Northern Ireland Environment Agency Water Regulation Group	FileRef: T9317
17 Antrim Road LISBURN	Date Received:
Co Antrim BT28 3AL	Applic Fee Received: Yes £ 129.0
Control of the second s	No No

Each applicant must complete this main form and separate Annexes as required. Please look through the form and read the notes carefully before you complete it. Processing of your application will be aided by full and accurate completion of all the relevant sections and provision of the necessary plans. If you have any queries about the form please telephone the above number.

NOTE

All information contained within this application will be made available on the public register unless there is a request to withhold any of it. Any such request should provide a full justification stating why the information should be withheld.

1 SITE ADDRESS

1.1 Address or other sufficient description of land or premises to which this application applies.

Curraghinalt, Gortin, Co. Tyr	one.			WASS N	
Mineral exploration involving the extentional at Curroughinalt. Post Code BT 79 75F	sion of	the existing	underground	exploration	
Post Code BT 79 75F		7 X 1 40			

2	DETAILSOFDISCHARGE(S)	(5
2.1	State the nature of the discharge(s) (see notes i and ii) -tick one or more boxes as appropriate:-	
	Sewage discharged from a pumping station under emergency conditions (complete also Annex I)	
	Trade Effluent (including site drainage) (complete Annex 2)	
	Landfill/Waste Disposal Site (complete Annex 3)	
	Aquaculture Farm (complete Annex 4)	
	Sewage Effluent (complete Annex 5)	
	NB: If application is in respect of a single domestic dwelling a separate form applies. (Form WO2)	
2.2	Are there any existing consents to discharge from the premises (see note vi)? Yes Vi No If yes, please give the reference number(s).	
	Consent No. 068/12/2	
3.	SITE DETAILS	
3.1	Has planning permission been applied for or granted? Yes No No	
	K/2014/0246/F granted	
3.2	Please give details of the premises - tick as appropriate:-	
	1. Domestic Dwellings - (please state number) 5. Aquaculture Farm (please specify)	
	2. Vehicle Parking Area	
	3. Trade Premises (please specify) 6. Mineral Workings	
	7. Landfill Site	$\overline{\Box}$
	4. Commercial Premises (please specify) 8. Other (please specify)	V
	Extension to existing underground exploration tunnel and ancillary act	v, ties
3.3	Please indicate source of the water supply -tick as appropriate:-	
	1. Well 5. River (please give name below)	
	2. Borehole 6. Estuary (please give name below)	
	3. Precipitation (eg, rain or snow) 7. Coastal Water (please give name below)	
	4. Mains	
3.4	Please list amounts/volumes of chemicals and fuels stored on the premises?	_
	Three integrally bunded fuel tunks (110% capacity) with a collective capacity of \$2,0,000 litres, 1000 litres sulphuric acid and 1000 litres sodium hydroxide separately hunded.	÷

	DETAILS OF RECEIVING ENVIRONMENT
4.1	Is there a foul sewer available to which the discharge(s) could be made? (see note viii) If yes, please state why it is not practical to connect to it (eg, distance, flow etc)
5	DETAILS OF APPLICANT AND OTHER INFORMATION (See general notes and note xi)
5.1	(a) Full name and postal address of applicant. This should be the person who will become the
	Consent holder should consent be granted. Mr Managing Director Dulradium Gold Ltd. 3 Killybruck Road, Omugh Post Code: BT 79 70G E-mail Address: Daytime Telephone Number: 028 Fax: 028 8225 7562
	Company Registration Number (if appropriate): N/ 008465
	(b) Agent (if any) - Full name and postal address:
	Post Code: BT
	E-mail Address:
.2	E-mail Address:
.2	E-mail Address: Daytime Telephone Number: 028 Fax: 028 Please give full name and address to which invoices for any annual charges should be sent if
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DECLARATION

1/We*:

- apply under the Water (Northern Ireland) Order 1999 for consent to discharge, as described in this Application. "This Application" means this page, all the other pages of this form and any attached annexes, the attached plan(s), any other sheets attached, and any other written information supplied to support the application.
- 2. enclose the required application fee, payable to the "Department of the Environment" (see note xii).
- 3. enclose 2 copies of the location map and also the site plan(s) with all relevant information clearly marked (see note xiii).
- will pay required advertising costs (see note xiv).
- confirm that I/We* will notify the Department of any changes in the information in this application which might be material to the continuation of the consent, if granted.
- 6. confirm that the information given in this application and any questions which the Department may have about it is/will* be true to the best of my/our* knowledge, information and belief and am/are* not aware of any other facts or information which might affect either the granting of a consent or the conditions which might be put on it (see note xv).
- confirm that I/We* will pay any annual charges due should a consent be granted (see note xvii).

(*Delete as appropriate)

1		GOLD LIMITED		11.2-41.7
NB: 1		y the Applicant. (Photocopie	es not acceptable.)	
CON	FIDENTIALITY	ntiality and enclose a full wri		
		milanty and enclose a run wit		
CHE	CK LIST - Have you enclos Main Form WO1	ed? Site Plan(s)	ा रि	² ee
	Relevant Annexes	Location Map		

PLEASE RETURN THIS FORM TO THE ADDRESS GIVEN ON THE FRONT PAGE

We do not automatically provide a receipt for the payment of the fee but if one is required, please provide an email address:

√VO1 -	ANNEX 2	
TRADE	EFFLUENT	DISCHARGES

Please complete this annex if you are proposing to discharge trade effluent (this includes site drainage).

Official Use Only File Ref:	

Discharge of groundwater from underground explanation the surface infrastructure area, waste rock runoff exploration drilling return water.	on tunne , surface	l, surface was	kr runoff round
b) Please state the type and number of treatment units you are please include details of oil/petrol interception facilities).	proposing	to use (if site di	rainage
A water management and treatment system is current six includes a settlement tank and oil intercepta	ently in	place at the	site.
i) Please state the maximum quantity it is proposed to discharg one day. Briefly state how this figure was calculated (see note		842	m ³ /day
Flow monitoring using a v-notch weir at the existing tunnel to measure discharge, plus Met Office rainfa	ng entron all data.	ce to the c	exploration
ii) Please state the maximum rate of discharge.	-	9.75	Litroplana
 a) Indicate proposed means of discharge - tick as appropriate and (for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 	nd show or		Litres/sec
	ise specify l	plan:-	Littes/sec
(for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 2. Channel 4. Other (plea	ise specify l	plan:-	
(for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 2. Channel 4. Other (plea	ise specify l	plan:-	
(for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 2. Channel 4. Other (please by curraghinal to Burn from water treatments) b) Irish Grid Reference(s) of point(s) of discharge (see note iv)	ase specify leat plant	below)	,
(for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 2. Channel 4. Other (please location) 1. Scherge to Curraghinalt Burn from water treatment b) Irish Grid Reference(s) of point(s) of discharge (see note iv)	ase specify leat plant	below)	,
(for 1, 2 & 3 please state dimensions below) 1. Pipe 3. Culvert 2. Channel 4. Other (please location) b) Irish Grid Reference(s) of point(s) of discharge (see note iv)	on accompa	below) in plan:- below) in pl	· · ·

Treatment Plant Settlement System A water treatment plant has been installed at the site. Main composed include settlement tank, oil interceptor, lamella clarifier and pt control. If settlement system proposed please state dimensions: b) Will the treatment process involve the use of any chemicals (eg, ferric salts, polyeletrolytes) If yes, please give details. Provision is in place for use of sulphuric acid. (H ₁ SO ₂), sodium hydroxion (N ₂ OH) and a polymer solution to aid settlement. a) Is the discharge existing or proposed figure from the figure from the consent for a limited time period please give dates; from: I is to: I	a) Type of Treatment Plant(s) to be used - tick as ap	oropriate:-	
Interceptor A water treatment plant has been installed at the site. Main composed include settlement tank, oil interceptor, lamella clanfier and pH control. "If settlement system proposed please state dimensions:- b) Will the treatment process involve the use of any chemicals (eg, ferric salts, polyeletrolytes) If yes, please give details. Provision is in place for use of sulphuric acrid (HiSO ₂), sodian hydroxia (MoH) and a polymer solution to aid settlement. a) Is the discharge existing or proposed If proposed: On what date do you anticipate the discharge will commence? b) If you require the consent for a limited time period please give dates: c) If the discharge is not continuous please detail the period/circumstances when it will occur. Receiving Medium - tick the category(s) to which the proposed discharge(s) is(are) to be made:- 1. Estuary (tidal river or stream)		7		
A pulse treement plant has been instilled at the site. Main composed include settlement tank, oil interceptor, lamella clarifier and pH control. "If settlement system proposed please state dimensions: b) Will the treatment process involve the use of any chemicals (eg, ferric salts, polyeletrolytes) If yes, please give details. Provision is in place for use of sulphanic acid. (HisO _V), sodiem hydronic (NoOH) and a polymer solution to aid settlement. a) Is the discharge existing or proposed if proposed: On what date do you anticipate the discharge will commence? b) If you require the consent for a limited time period please give dates; from: I form: I fo			Interceptor	V
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Minimum length of irrigation drains will be metres	Average percolation valu	e optained:	m will be m ^{2,}	
certify that the percolation test was carried out in accordance with	Minimum area of the sul	otion drains will he	metres	
British Standard BS 6297: 1983. (See Guidance Notes at Appendix 1.)	1.	certify that the per-	colation test was carried out 1	accordance with
	British Standard BS 6297	: 1983. (See Guidance N	otes at Appendix 1.)	

4.	Ra	infall Dependent Discharges
5	a)	Will the volume be rainfall dependent?
	b)	If yes, please give the total area drained. 11, 435 m ²
	c)	Please give details of any activities which occur in the drainage area which could contaminate surface water (see note b).
		Activities at the site include surface infrustructure area; incorporating a covered workshop, refuelling facility, truck washdown area and the storage of waste and mineralised rock. Waste water from the office and welfare facilities goes to a holding tank which is emptied by a licenced contractor on an as need basis.
5.	Rai	nfall Independent Discharges
	a) b)	What is the maximum rate of discharge? 9.75 l/s What is the average daily flow? $842 \text{ m}^3/\text{d}$
	c)	What is the maximum daily flow? 842 m³/d
Ĭ.,	d)	For discharges where the source of supply is other than mains water: i) give the Irish Grid Reference of a point where the influent can be sampled. [
б.	a)	Will any self monitoring take place? If yes, please give details. Yes No
	A tro	continuous flow monitoring device hus been installed prior to the discharge of ented water in order to monitor discharge volume. OGL continue to monitor discharge volume, to continue to monitor discharge point, Currughinalt Burn and wentilled River (5 locations in total) to either meet or exceed requirements set out in Consent No. 068/12/2.
	b)	Will automatic sampling equipment be provided? If yes, please give details of type, frequency and location (please indicate on plan) Yes No (
	Tu	or pH probes and two total suspended solids probes are in place at the site for to the discharge point. These are linked to continuous monitoring and automatic shutdown facility.

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1	Other Information Ice visually	prixiara		******
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1	Please indicate if any of the specified substances given below or their coin the effluent and if so at what maximum concentration (please give va	ompounds w lues in micro	vill be p	resent
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<u> </u>	in the effluent and it so at what maximum contents to the litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmlum (Total and dissolved) and its compounds	CONCI	ENTRAT (ug/l) MIN	rion Meal
호 ㅁ	in the effluent and it so at what maximum contents of litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST 1 Cadmlum (Total and dissolved) and its compounds Carbon tetrachloride	MAX	ENTRAT (ug/l) MIN	MEAL
) 	in the effluent and it so at what maximum contents and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST 1 Cadmium (Total and dissolved) and its compounds Carbon tetrachloride	MAX	ENTRAT (ug/l) MIN	MEAL
B 000	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane)	MAX	ENTRAT (ug/l) MIN	MEAI
60000	in the effluent and it so at what maximum contents and it so at what maximum contents and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST 1 Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin)	MAX	ENTRAT (ug/l) MIN	MEAI
B 000	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmlum (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC)	MAX	ENTRAT (ug/l) MIN	MEAL
60000	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB)	MAX ***********************************	ENTRAT (ug/l) MIN	TION MEAL
) 0	in the effluent and it so at what maximum contents and it so at what maximum contents and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB)	MAX ***********************************	ENTRAT (ug/l) MIN	MEAI
800000	in the effluent and it so at what maximum contents and it is at what maximum contents and it is at what maximum contents and it is compounds. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB) Hexachlorobutadiene (HCBD) Hexachlorocyclohexane (lindane and related compounds)	MAX	ENTRAT (ug/l) MIN	MEAL
0000000	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB) Hexachlorobutadiene (HCBD) Hexachlorocyclohexane (lindane and related compounds) Mercury (Total and dissolved and its compounds)	CONCE MAX	ENTRATI (ug/l) MIN	MEAI
	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST I Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB) Hexachlorobutadiene (HCBD) Hexachlorocyclohexane (lindane and related compounds) Mercury (Total and dissolved and its compounds) Pentachlorophenol (PCP)	CONCI MAX	ENTRAT (ug/l) MIN	MEAI
امقرعوموموموها	in the effluent and it so at what maximum consequences litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST 1 Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB) Hexachlorobutadiene (HCBD) Hexachlorocyclohexane (lindane and related compounds) Mercury (Total and dissolved and its compounds) Pentachlorophenol (PCP) Tetrachloroethylene (PER)	CONCI MAX	ENTRATI (ug/l) MIN	MEAI
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in the effluent and it so at what maximum contents and litre - µg/1). Please see note c. EC DANGEROUS SUBSTANCES DIRECTIVE/UK RED LIST LIST i Cadmium (Total and dissolved) and its compounds Carbon tetrachloride Chloroform DDT (the isomers of 1.1.1-trichloro-2,2 bis (p-chlorophenti ethane) "The Drins" (aldrin, dieldrin, endrim and isodrin) 1,2-Dichloroethane (EDC) Hexachlorobenzene (HCB) Hexachlorobutadiene (HCBD) Hexachlorocyclohexane (lindane and related compounds) Mercury (Total and dissolved and its compounds)	CONCI MAX	ENTRAT (ug/l) MIN	MEA

LIST II MAX MIN MEAN V 15... Arsenic (Dissolved) 16. Boron (Total) ****** ****** **14**1 4 17. Chromium (Total and dissolved) 团 18. Copper (Total and dissolved) ****** 19. Cyanide F1+20-000 -20. Cyfluthrin ****** g 21. Iron (Total and dissolved) -22. \square Lead 図 23. Nickel (Total and dissolved) . -Perchloroethylene 24. ****** 25. Permethrin 26. Polychlorinated biphenyls (PCB) 27. Organotins (tributylin & triphenyltin compounds) . ****** 28. Vanadium ****** ******* V 29. Zinc (Total-and dissolved) ***** 30. 🗆 pH if outside the range 5.5 to 9.0 31. **PCSD** 32. Sulcofuron 33. Flucofuron **ADDITIONAL SUBSTANCES** 34. Atrazine 35. Azinphos-ethyl ****** Зб. Azinphos-methyl 37. Dichlorvos ****** ****** 38. Dioxins ******* 39. **Endosulfan** 40. **Fenthion** 41. Fenitrothion ------42. Malathion ******* ***** 43. **Parathion** 44. Parathlon-methyl ******* 45. Simazine 46. 1,1,1 Trichloroethane 47. Triforalin 48. 4-Chloro -methyl-phenol 49. 2-Chlorophenol 50. □ 2, 4-Dichlorophenol 8011-9991 51. 2, 4-D (ester) -52. 2, 4-D (non-ester) 53. 1, 1, 2-Trichloroethane 54. Bentazone 55. 🔲 Benzene

56.

Biphenyl

		MAX	MIN	MEAN
	Chloronitrotoluenes	Resolutes	*****	9 8 9 24 64 4
57₁ □ 58. □	Demeton	***************************************	********	*******
	Dimethoate		*********	*******
59. □ 60. □	Linuron	4424000	********	34463009
61.	Mecoprop	peputonk	*******	3.00700d
62.	Naphthalene	*******	********	*******
63.	Omethoate	********	10044040	pp146010
64.	Toluene	*******	*******	*********
65.	Triazaphos	H112000	\$1500000	pp405444
66.	Xylene	41414144	404 84 111	*********
67.	Alachior	*******	2224440	a4510011
68.	Anthracene	*****	********	*********
69.	Brominated diphenylether	*********	11100400	01000001
70.	C ₁₀₋₁₃ -Chloroalkanes	04151000	mppe1515	£2430000
71.	Chloropyrifes	eservice.	#12140PF	*********
72.	Dichloromethane	********	*****	***********
73.	Di-2-ethylhexyl phthalate (DEHP)	4000000	-	******
74.	Diuron	*******	20001889	10000000
75. 🛘	Isoproturon	p. 2	4	
76. 🛘	Nonylphenols	64699083	4411111	93999994
77. 🗖	Octylphenols	******	*******	**********
78. 🗖	Polyaromatic hydrocarbons bstance(s) that should be taken into account	4110000	gantari	*******
	Are there any other significant chemical components used on site which may be contained in the effluent, including biocides or additives? If yes, please give details	Y	es 🗸	∫ No □
	Hydraulic oil and engine oil Sodium hydroxide (NaOH) Sulphanic acid (H2SO4)			
	Colomb House (MAH)			
	Souther Highlighte (Mach)			
	Sulphanic acid (H2SO4)			
Notes (see also the notes attached to the main form):		**	
a)	For direct trade effluent discharges, full details of the type of the effluent are re from air conditioning units), along with typical analytical details and the resulthe effluent or its constituents. In certain circumstances the Department may be taken and tests and analysis carried out.	require th	at speci	ric samples
<i>b</i>)	Possible sources of contamination include oil/chemical storage areas, vehicle heavy vehicle parking areas and oil/petrol filling points. Any other potential s should be detailed.			
c)	Where discharges of trade effluent take place to a sewerage system, as covere give details of all authorised discharges of substances listed in table 7 overlea	a oy tnis (f.	ibbucan	on hierse





