



**Roinn Cumarsáide, Gníomhaithe
ar son na hAeráide & Comhshaoil**

Department of Communications,
Climate Action & Environment

PROSPECTING LICENCE AREAS OPEN FOR APPLICATION UNDER COMPETITION

AND INDUSTRY NEWS

1ST NOVEMBER 2017

www.dccae.gov.ie
www.mineralsireland.ie

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All information is also available on www.mineralsireland.ie

Ground Status and Application Procedure

This booklet contains listed details of all current prospecting and mining facilities. Details include the names of the licensees, the geographical location and, with reference to prospecting licences, the details of the minerals for which they have been issued. The locations of these prospecting licences and mining facilities, as well as ground that is available for application is available in an online facility maintained by this Department and accessible at <http://www.mineralsireland.ie/Online+Services/>

Available Ground

Ground that is available for exploration under a Prospecting Licence (PL) is available online through www.DCCAE.ie/EMDMapsAndData

- **Ground Categories**

- **Open areas:** Established licence areas available for application at any time are identified by their number and are coloured dark green or pale green. Those areas coloured pale green attract exploration incentives (see Incentive Ground below).
- **Held areas:** Current prospecting licences and recently offered licences are restricted to certain minerals (p.7-24). Such ground is available for application for prospecting for other minerals.
- **Competition areas:** Available Prospecting Licence areas for this competition are listed on page 6.

- **Prospecting Licence Terms**

A Prospecting Licence typically covers an area of 35 km². Prospecting Licences are issued for a period of six years (maximum), for specified minerals, and can be renewed. A minimum expenditure per licence is required, and varies with the age of the licence (see table). A minimum work programme is also required, details of which are agreed with the licensee. Progressively increased work and expenditure commitments are required on renewal. Work reports are required every two years, and are held confidential for six years thereafter, or until expiry or surrender of the licence. Third party insurance, indemnifying the Minister, is required for the period of the licence.

- **Incentive Areas**

Significant financial incentives are available for the first six years of exploration on relatively neglected areas or areas where current exploration is restricted to certain minerals. The incentives consist of **substantially reduced fees and expenditure requirements**, and are designed to provide scope for relatively inexpensive "grass roots" exploration, in order to encourage work in areas where results of earlier exploration had failed to produce sufficient encouragement to the licensee.

The incentives apply to two categories of ground, viz.

- (i) **Open Areas**, where these Prospecting Licence areas have been available for application for more than four years
- (ii) **Areas currently licensed for certain minerals**, but available for exploration for other minerals

Currently licensed areas for which exploration may be undertaken for other minerals are listed on pages 8-23.

Open Areas available for more than four years: Where a previously issued Prospecting Licence area has been available for application for at least four years, the licence will be granted, normally, for a term of six years. A reduced fee of €1,250 per Prospecting Licence will apply, payable in advance for each two-year phase as €375 for each of the first and second phases, and €500 for the third phase. This represents a reduction of €1,875 (60%) in fees compared to the standard requirements. (There is no reduction in the application fee).

Fees	Competition / Standard Areas	Incentive Areas
First 2 years	€750	€375
Second 2 years	€875	€375
Third 2 years	€1,500	€500
Total	€3,125	€1,250
Minimum Expenditure Requirements		
First 2 years	€10,000	€2,500
Second 2 years	€15,000	€5,000
Third 2 years	€20,000	€10,000
Total	€45,000	€17,500

Currently Licensed Areas: Ground is also available to companies that wish to undertake exploration over areas currently held, for minerals that are not assigned to the current prospecting licence holder. Such additional prospecting licences will only be issued where the Minister for Communications, Climate Action and Environment is satisfied that there will be no clash of mineral interests. The current prospecting licence holder continues to hold a standing Statement of Interest for all other minerals in that area. The fees and expenditure requirements will be the same as for prospecting licences that have been available for over four years i.e. the 'Open Areas' Incentive category (see above).

Ground Unavailable

Ground unavailable for application is differentiated as follows:

- Current Prospecting Licences for certain minerals Mining Leases, Mining Licences and Mining Permissions
- Licences under application, and that have been offered to the applicant
- Licence areas that are currently not being made available for application
- Licences that have been applied for under earlier competition
- Excluded areas e.g. National Parks: These are areas that are not available for application at any time

Application Procedures

While applications are invited for all categories of available ground, it should be understood that an area may have been already applied for, and that applications are treated on a time-priority basis i.e. "first come, first served". Before making application for any open area, prospective applicants may wish to consult with the Exploration and Mining Division to ascertain whether there has been a prior application for the area. If there has been a prior application, and if a licence has been offered, the ground is not available for further applications. The acceptance of an application for a Prospecting Licence does not create any obligation on the part of the Minister to grant a licence.

Where there is a valid Statement of Interest over ground that is being applied for, the applicant will be so notified (but no other details provided), and invited to revise their application if they wish to do so.

Applicants are reminded that, if more than one area is applied for, a priority listing of the applications is required; otherwise all applications will be regarded as having equal priority. If separate applications are made over a period of time, the priorities should also take account of any earlier applications. It should be noted that where expenditure proposals are above the minimum required (e.g. in a Competition), these will be taken as the minimum expenditure requirement when the ground is offered to the successful applicant.

All applications for prospecting licences must be made to:

Exploration and Mining Division (EMD)
Department of Communications, Climate Action and Environment
29/31 Adelaide Road
Dublin
D02 X285

on an [Application Form](#) (Form No.1), accompanied by a fee of €190.00 per Prospecting Licence Area.
A copy of the form is available from EMD at the above address, or available at www.mineralsireland.ie.

Payments to the Department of Communications Climate Action and Environment by Electronic Fund Transfer

The Department can accept payment by Electronic Fund Transfer (EFT) in accordance with the following protocol only.

1. Each EFT payment made must quote your Department of Communications, Climate Action and Environment five digit customer number (eg. 12345). *This enables the Department to distinguish your payment in our account. Please ensure your bank can accommodate this reference.*
2. Each payment must be followed by remittance notice detailing
 - a. Name and address details
 - b. Your five digit customer number (eg. 12345)
 - c. The date and amount paid into the Department's EFT Account
 - d. A listing of the specific Department invoice number(s) to which the payment refers. (eg. 30012345) or
 - e. Where no invoice has issued a detailed description of purpose of the payment.

Details at d. and e. are required to enable the Department to clear the payment against the correct invoice(s) or the correct service.

3. Where a payment is to cover a number of different branches of your company (i.e. a number of Department customers) a breakdown of the payment is required giving the details at 2 for each branch.
4. All payments to be made in Euro.
5. The remittance notice can be sent:

By email to : AccountsReceivable@DCCAE.gov.ie

Or

By mail to : Accounts Receivable, Department of Communications, Climate Action and Environment, Elm House, Earlsvale Road, Cavan, H12 A8H7

Note: The Department cannot accept any responsibility for payments made into this account that cannot be identified due to lack of information.

Should you have any queries please contact: Accounts Receivable at (01) 678 2000.

The Department's EFT Bank Details

Bank Details :	Bank of Ireland, Main Street, Cavan.
Account Name:	Department of Communications, Climate Action and Environment, Accounts Receivable.
Account Number:	7849 2156
Bank Sort Code:	90 32 93
IBAN:	IE48 BOFI 9032 9378 4921 56
BIC :	BOFIE2D

Applicants should be aware that bank charges can apply, particularly when applying from overseas. Provision should be made for these charges by the applicant to ensure the full €190 fee is received in the Department's account. Failure to do so will lead to delays in applications being accepted.

Prospecting Licence Competition

Procedures

Every three months, a Competition is held for certain Prospecting Licence Areas. The competition relates to areas for which licences have been surrendered or terminated, or that have been offered but declined, in the previous three months. Previously unavailable ground may also be released through competition. Interested parties normally have **two months** in which to apply for a licence over a competition area, with all applications received during that period deemed to have been received at the same time i.e. no time priority is given to applications received during those months.

It should be noted that **no reduction in financial commitment** by aggregating expenditure from contiguous areas will be accepted for the first two-year phase for any licence area awarded under competition.

Prospecting licences available for application under Competition will be published usually on the 1st February, 1st May, 1st August and 1st November of each year. They consist of a list of prospecting licence areas that have become available for application under equal competition, together with details of how to apply, and a listing of prospecting licences issued or offered and advertised since the previous publication. Maps and information on currently held areas are available through our live GIS through

www.DCCAE.ie/EMDMapsAndData

with updates to competitions on our competition page

<http://www.mineralsireland.ie/Exploration+Licensing+Process/Prospecting+Licence+Competitions.htm>

Competition Areas

PL Area	County	PL Area	County
3307*	Galway	3886	Galway

**PLA 3307 has a currently held licence for Gemstones including semi-precious stones*

State Mining and Prospecting Facilities

State Mining Facilities

- **Mining Licences**

Ref	Licensee	Issued	County	Valid To
SML 2	Boliden Tara Mines Ltd.	03.07.1998	Meath	30.11.2023
SML 3	Boliden Tara Mines Ltd.	03.07.1998	Meath	30.11.2023
SML 4	Boliden Tara Mines Ltd.	11.09.2000	Meath	30.11.2023
SML 5	Boliden Tara Mines Ltd.	15.01.2004	Meath	30.11.2023
SML 11	Vedanta Lisheen Mining Ltd. Killoran Lisheen Mining Ltd. & Lisheen Milling Ltd.	08.01.2013	Tipperary	06.10.2027
SML 12	Boliden Tara Mines Ltd.	22.04.2013	Meath	30.06.2021

- **Mining Leases**

Ref	Licensee	Issued	County	Valid To
M 17	Joyce's Marble Quarries Ltd.	01.10.1933	Galway	30.09.2032
M 23	Fleming's Fireclays Ltd.	01.03.1935	Laois	29.02.2032
M 30	Connemara Marble Products Ltd.	01.11.1937	Galway	31.10.2034
M 37	Fleming's Fireclays Ltd.	14.11.1940	Laois	13.11.2039
M 79	Joyce's Marble Quarries Ltd.	01.12.1957	Galway	30.11.2056
M 139	Irish Gypsum Ltd.	12.11.2002	Monaghan/Cavan	11.11.2032
M 140	Vedanta Lisheen Mining Ltd. Killoran Lisheen Mining Ltd. & Lisheen Milling Ltd.	07.10.1997	Tipperary	06.10.2027
M 144	Boliden Tara Mines Ltd.	01.07.2006	Meath	30.06.2021
M 146	Boliden Tara Mines Ltd.	01.12.2013	Meath	30.11.2023
M 147	Boliden Tara Mines Ltd.	01.12.2013	Meath	30.11.2023

Further details concerning the individual State Mining Facilities (minerals, royalties, etc.) are published in the [Six Monthly Reports to the Oireachtas](#) by the Minister for Communications, Climate Action and Environment in accordance with the Minerals Development Acts, 1940-1999. Six Monthly Reports are available at <http://www.mineralsireland.ie/Legislation+Fees+and+Policy/Six+Monthly+Reports.htm>

Prospecting Licences Held

All prospecting licences are restricted to certain minerals and hence the PL areas in question are available for application for other minerals (although the current holder is deemed to have a standing Statement of Interest for all these other minerals).. The licensed minerals are abbreviated as follows: Base metals (Bm); Barytes (b); Gold (g); Silver (s); Platinum Group Elements (PGE), Rare Earth Elements (REE).

There are 609 Licences held on 1st November 2017.

PL	Licencee	Start	County	Minerals
185	Diversified Asset Holdings Pty. Ltd	03-09-2014	Longford	Bm, b, s, g, PGE
186	Diversified Asset Holdings Pty. Ltd	03-09-2014	Longford	Bm, b, s, g, PGE
350	Group Eleven Mining & Exploration Ltd	12-02-2015	Tipperary	Bm, b, s, g
405	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
449	TILZ Minerals Ltd	31-01-2005	Limerick	Bm, b, s, g, PGE
450	TILZ Minerals Ltd	31-01-2005	Limerick	Bm, b, s, g, PGE
468	Group Eleven Mining & Exploration Ltd	04-11-2016	Tipperary/ Limerick	Bm, b, s, g
480	Group Eleven Mining & Exploration Ltd	13-02-2017	Offaly	Bm, b, s, g
481	Group Eleven Mining & Exploration Ltd	13-02-2017	Offaly	Bm, b, s, g
582	Vedanta Exploration Ireland Ltd	10-11-2015	Longford	Bm, b, s, g
608	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
622	Ballinalack Resources Ltd	20-02-2006	Longford	Bm, b, s, g, PGE
626	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
627	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
635	Glencore Zinc Ireland Ltd	06-12-1996	Limerick	Bm, b, s
636	Glencore Zinc Ireland Ltd	06-12-1996	Limerick	Bm, b, s
735	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
743	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
757	Erris Resources Ltd	26-08-2013	Sligo	Bm, s, g
786	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
890	Raptor Resources Ltd	08-05-2017	Offaly	Bm, b, s, g
930	MOAG Copper Gold Resources Inc	25-09-2006	Galway	Bm, s
934	MOAG Copper Gold Resources Inc	31-12-2005	Galway	Bm, s
1022	Oriel Selection Trust Ltd	21-10-2013	Mayo	Bm, b, s, g
1043	Vedanta Exploration Ireland Ltd	10-11-2015	Westmeath	Bm, b, s, g
1051	Oldcastle Zinc Ltd	28-01-2005	Cavan	Bm, b, s, g, PGE
1053	Oldcastle Zinc Ltd	28-01-2005	Meath	Bm, b, s, g, PGE
1108	Centenary Resources Ltd	03-04-2017	Offaly	Bm, b, s, g
1174R	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
1178	Teck Ireland Ltd	08-08-2006	Offaly	Bm, b, s, g, PGE
1181	Teck Ireland Ltd	26-06-2006	Westmeath	Bm, b, s, g, PGE
1196	Hendrick Resources (Ireland) Ltd	12-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
1198	Boliden Tara Mines Ltd	10-03-2000	Wexford	Bm, b, s, g
1228	Minco Ireland Ltd	03-11-2015	Westmeath	Bm, b, s, g
1229	Minco Ireland Ltd	03-11-2015	Westmeath	Bm, b, s, g

PL	Licencee	Start	County	Minerals
1244	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
1245	Teck Ireland Ltd	12-02-2012	Westmeath	Bm, b, s, g, PGE
1302	Group Eleven Mining & Exploration Ltd	10-11-2016	Limerick	Bm, b, s, g
1303	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
1316	Teck Ireland Ltd	26-01-2012	Kildare	Bm, b, s, g, PGE
1317	Teck Ireland Ltd	26-01-2012	Kildare	Bm, b, s, g, PGE
1318	Teck Ireland Ltd	26-01-2012	Kildare	Bm, b, s, g, PGE
1319	Teck Ireland Ltd	12-02-2012	Meath	Bm, b, s, g, PGE
1322	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
1323	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
1324	Boliden Tara Mines Ltd	16-11-1995	Meath	Bm, b, s
1325	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
1327	Boliden Tara Mines Ltd	20-04-2011	Meath	Bm, b, s, g
1331	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1332	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1333	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1334	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1338	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1339	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
1341	Boliden Tara Mines Ltd	25-01-2007	Offaly	Bm, b, s, g
1343	Boliden Tara Mines Ltd	15-11-2006	Offaly	Bm, b, s, g
1344	Ballinalack Resources Ltd	30-11-2005	Westmeath	Bm, b, s, g, PGE
1345	Ballinalack Resources Ltd	30-11-2005	Westmeath	Bm, b, s, g, PGE
1346	Ballinalack Resources Ltd	30-11-2005	Westmeath	Bm, b, s, g, PGE
1347	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
1349	Teck Ireland Ltd	12-02-2012	Westmeath	Bm, b, s, g, PGE
1351	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
1373	Adventus Zinc Ireland Ltd	05-02-2014	Galway	Bm, b, s, g
1383	Ballinalack Resources Ltd	20-02-2006	Westmeath	Bm, b, s, g, PGE
1384	Ballinalack Resources Ltd	19-12-2011	Westmeath	Bm, b, s, g, PGE
1385	Ballinalack Resources Ltd	20-02-2006	Westmeath	Bm, b, s, g, PGE
1431	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
1440R	Westland Exploration Ltd	23-10-1972	Meath	Bm, b, s
1450	Beal Na Blath Resources Ltd	10-07-2015	Meath/ Dublin	Bm, b, s, g, PGE
1457	Diversified Asset Holdings Pty. Ltd	28-11-2013	Limerick	Bm, b, s, g
1469	Omagh Minerals Ltd	18-03-2014	Leitrim	Bm, b, s, g
1473	Wolfhound Lithium Ltd	21-09-2016	Wicklow	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
1476	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
1496	Rennicks & Bennett Ltd	16-08-1971	Meath	Bm, b, s
1500	Teck Ireland Ltd	24-06-2017	Meath	Bm, b, s, g, PGE
1541	Zimtu Capital Corp	30-11-2016	Wexford	Bm, g, REE, Lithium

PL	Licencee	Start	County	Minerals
1542	Zimtu Capital Corp	30-11-2016	Wexford	Bm, g, REE, Lithium
1555	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
1556	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
1562	Oriel Selection Trust Ltd	30-01-2011	Mayo	Bm, b, s, g
1583	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
1584	Group Eleven Mining & Exploration Ltd	10-11-2016	Limerick	Bm, b, s, g
1597	Wolfhound Lithium Ltd	22-09-2016	Carlow	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
1601	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
1604	Teck Ireland Ltd	30-11-2015	Kildare	Bm, b, s, g, PGE
1624	Boliden Tara Mines Ltd	04-08-2017	Offaly	Bm, b, s, g
1630	Teck Ireland Ltd	30-11-2015	Kildare	Bm, b, s, g, PGE
1631	Teck Ireland Ltd	30-11-2015	Kildare	Bm, b, s, g, PGE
1641	Vedanta Exploration Ireland Ltd	20-03-2014	Laois	Bm, b, s, g, Calcite
1650	Connemara Mining Co. Ltd	23-05-2017	Laois	Bm, b, s, g
1652	Vedanta Exploration Ireland Ltd	20-03-2014	Laois	Bm, b, s, g, Calcite
1653	Vedanta Exploration Ireland Ltd	20-03-2014	Laois	Bm, b, s, g, Calcite
1660	Erris Resources Ltd	26-08-2013	Sligo	Bm, s, g
1672	BMEx Pty Ltd	16-10-2017	Leitrim	Bm, b, s, g
1675	BMEx Pty Ltd	16-10-2017	Leitrim	Bm, b, s, g
1677	Adventus Zinc Ireland Ltd	21-07-2016	Galway	Bm, b, s, g
1700	Boliden Tara Mines Ltd	03-07-2014	Galway	Bm, b, s, g
1715	Wolfhound Lithium Ltd	21-09-2016	Wicklow	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
1788	Boliden Tara Mines Ltd	03-07-2014	Galway	Bm, b, s, g
1802	BMEx Pty Ltd	02-10-2017	Longford	Bm, b, s, g
1803	BMEx Pty Ltd	02-10-2017	Longford	Bm, b, s, g
1814	Unicorn Mineral Resources Ltd	08-09-2010	Kilkenny	Bm, b, s, g, PGE, Cobalt, Iron
1940	Group Eleven Mining & Exploration Ltd	12-11-2016	Cork	Bm, b, s, g
1942	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
1943	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
1946	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
1947	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
1948	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
1949	Unicorn Mineral Resources Ltd	29-09-2016	Limerick	Bm, b, s, g
1952	Unicorn Mineral Resources Ltd	06-07-2011	Clare	Bm, b, s, g, PGE, Fluorspar
1966	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
1967	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
1991	Oldcastle Zinc Ltd	28-01-2005	Meath	Bm, b, s, g, PGE
2021	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
2024	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
2029	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
2030	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g

PL	Licencee	Start	County	Minerals
2053	Hendrick Resources (Ireland) Ltd	13-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2062	Teck Ireland Ltd	26-06-2006	Kildare/ Offaly	Bm, b, s, g, PGE
2063	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2085	Oriel Selection Trust Ltd	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Lithium
2087	Oriel Selection Trust Ltd	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Lithium
2103	IMC Exploration Ltd	14-05-2011	Roscommon	Bm, b, s
2105	Beal Na Blath Resources Ltd	03-07-2015	Roscommon	Bm, b, s, g, PGE
2115	Oriel Selection Trust Ltd	25-02-2010	Donegal	Bm, b, s, g, PGE, REE
2193	Beal Na Blath Resources Ltd	20-06-2015	Monaghan	Bm, b, s, g, PGE
2194	Conroy Gold Ltd	15-07-1996	Monaghan	Bm, b, s, g
2236	Hendrick Resources (Ireland) Ltd	13-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2237	Hendrick Resources (Ireland) Ltd	13-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2238	Hendrick Resources (Ireland) Ltd	13-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2239	IMC Exploration Ltd	12-05-2011	Wicklow	Bm, b, s, g
2260	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
2268	Hendrick Resources (Ireland) Ltd	12-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2295	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
2301	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
2315	Omagh Minerals Ltd	30-03-2012	Donegal	Bm, b, s, g
2331	BMEx Pty Ltd	02-10-2017	Cork	Bm, b, s, g
2394	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2395	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2440	Beal Na Blath Resources Ltd	30-06-2015	Cork	Bm, b, s, g, PGE
2442	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
2522	Boliden Tara Mines Ltd	15-11-2006	Offaly/ Laois	Bm, b, s, g
2523	Oriel Selection Trust Ltd	10-07-2014	Roscommon	Bm, b, s, g
2529	Glencore Zinc Ireland Ltd	06-12-1996	Limerick	Bm, b, s
2530	Glencore Zinc Ireland Ltd	13-11-1995	Limerick	Bm, b, s
2531	TILZ Minerals Ltd	28-04-2006	Limerick	Bm, b, s, g, PGE
2537	Boliden Tara Mines Ltd	15-11-2006	Offaly	Bm, b, s, g
2538	Boliden Tara Mines Ltd	15-11-2006	Offaly	Bm, b, s, g
2539	Teck Ireland Ltd	08-08-2006	Offaly	Bm, b, s, g, PGE
2540	Teck Ireland Ltd	08-08-2006	Meath	Bm, b, s, g, PGE
2551	IMC Exploration Ltd	12-05-2011	Wexford	Bm, b, s, g

PL	Licencee	Start	County	Minerals
2552	Hendrick Resources (Ireland) Ltd	13-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
2553	Connemara Mining Co. Ltd	16-04-2008	Wexford	Bm, b, s, g, PGE, Caesium, Lithium
2554	Connemara Mining Co. Ltd	16-04-2008	Wexford	Bm, b, s, g, PGE, Caesium, Lithium
2555	Connemara Mining Co. Ltd	16-04-2008	Wexford	Bm, b, s, g, PGE, Caesium, Lithium
2558	Connemara Mining Co. Ltd	16-04-2008	Wicklow	Bm, b, s, g, PGE, Caesium, Lithium
2560	Group Eleven Mining & Exploration Ltd	18-01-2017	Offaly	Bm, b, s, g
2564	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
2567	Group Eleven Mining & Exploration Ltd	18-01-2017	Tipperary	Bm, b, s, g
2568	Group Eleven Mining & Exploration Ltd	18-01-2017	Tipperary	Bm, b, s, g
2579	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
2590	Hannan Metals Ireland Ltd	31-08-2017	Clare	Bm, b, s, g
2594	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
2597	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
2610	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
2625	Connemara Mining Co. Ltd	23-05-2017	Laois	Bm, b, s, g
2627	Vedanta Exploration Ireland Ltd	20-03-2014	Laois	Bm, b, s, g, Calcite
2638	TILZ Minerals Ltd	31-01-2005	Limerick	Bm, b, s, g, PGE
2645	Irish Resource Exploration Ltd	29-06-2012	Mayo	S, g
2647	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
2654	Group Eleven Mining & Exploration Ltd	30-09-2016	Tipperary	Bm, b, s, g
2655	Group Eleven Mining & Exploration Ltd	30-09-2016	Tipperary	Bm, b, s, g
2666	Vedanta Exploration Ireland Ltd	20-03-2014	Roscommon	Bm, b, s, g, Calcite
2674	Boliden Tara Mines Ltd	25-01-2007	Westmeath	Bm, b, s, g
2696	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
2700	Vedanta Exploration Ireland Ltd	20-03-2014	Galway	Bm, b, s, g, Calcite
2710	Teck Ireland Ltd	26-01-2012	Dublin	Bm, b, s, g, PGE
2724	Beal Na Blath Resources Ltd	03-07-2015	Galway	Bm, b, s, g, PGE
2732	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2752	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
2754	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
2756	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
2775	Ballinalack Resources Ltd	19-12-2011	Longford	Bm, b, s, g, PGE
2777	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
2778	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2779	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2781	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
2782	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
2803	Canada Resources Plc	09-10-2015	Donegal	Bm, b, s, g, PGE, REE, Iron, Niobium, Tantalum, Tungsten
2812	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2813	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2814	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g

PL	Licencee	Start	County	Minerals
2815	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
2835	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
2836	Beal Na Blath Resources Ltd	10-07-2015	Meath	Bm, b, s, g, PGE
2840	Group Eleven Mining & Exploration Ltd	30-09-2016	Limerick/ Tipperary	Bm, b, s, g
2845	Group Eleven Mining & Exploration Ltd	10-11-2016	Limerick	Bm, b, s, g
2860	Unicorn Mineral Resources Ltd	04-07-2011	Offaly	Bm, b, s, g, PGE, Fluorspar
2861	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
2872	Diversified Asset Holdings Pty. Ltd	19-03-2014	Limerick	Bm, b, s, g, PGE, Tin, Tungsten
2881	BMEx Pty Ltd	16-10-2017	Leitrim	Bm, b, s, g
2882	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2883	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2884	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
2895	Unicorn Mineral Resources Ltd	16-02-2016	Clare	Bm, b, s, g, PGE
2899	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
2900	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
2901	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
2902	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
2927	TILZ Minerals Ltd	31-01-2005	Limerick	Bm, b, s, g, PGE
2930	Wolfhound Lithium Ltd	22-09-2016	Carlow	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
2931	Wolfhound Lithium Ltd	22-09-2016	Carlow	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
2946	Adventus Exploration Ltd	24-01-2014	Cork	Bm, b, s, g
2947	Adventus Exploration Ltd	24-01-2014	Cork	Bm, b, s, g
2948	Adventus Exploration Ltd	24-01-2014	Cork	Bm, b, s, g
2949	Adventus Exploration Ltd	28-11-2013	Cork	Bm, b, s, g
2964	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
2981	Oriel Selection Trust Ltd	21-10-2013	Roscommon	Bm, b, s, g
2982	Oriel Selection Trust Ltd	21-10-2013	Roscommon	Bm, b, s, g
3007	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
3008	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
3012	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
3013	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
3014	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
3027	Beal Na Blath Resources Ltd	20-06-2015	Monaghan	Bm, b, s, g, PGE
3028	Conroy Gold and Natural Resources Plc	15-07-1996	Monaghan	Bm, b, s, g
3039	Omagh Minerals Ltd	30-03-2012	Donegal	Bm, b, s, g
3040	Omagh Minerals Ltd	30-03-2012	Donegal	Bm, b, s, g
3047	Adventus Exploration Ltd	27-10-2016	Cork	Bm, b, s, g
3062	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
3063	Connemara Mining Co. Ltd	10-04-2015	Donegal	Bm, s, g
3065	Conroy Gold and Natural Resources Plc	28-02-2017	Monaghan	Bm, b, s, g
3066	Conroy Gold and Natural Resources Plc	16-07-2012	Monaghan	Bm, b, s, g

PL	Licencee	Start	County	Minerals
3076	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
3077	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
3094	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
3095	Connemara Mining Co. Ltd	10-04-2015	Donegal	Bm, s, g
3112	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3128	BMEx Pty Ltd	16-10-2017	Donegal	Bm, b, s, g
3129	Group Eleven Mining & Exploration Ltd	13-02-2017	Offaly	Bm, b, s, g
3130	Conroy Gold and Natural Resources Plc	27-11-1996	Cavan	Bm, b, s, g
3132	BMEx Pty Ltd	16-10-2017	Donegal	Bm, b, s, g
3133	BMEx Pty Ltd	16-10-2017	Donegal	Bm, b, s, g
3134	BMEx Pty Ltd	16-10-2017	Donegal	Bm, b, s, g
3135	Omagh Minerals Ltd	31-05-2013	Donegal	Bm, b, s, g
3136	BMEx Pty Ltd	16-10-2017	Donegal	Bm, b, s, g
3145	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
3154	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
3156	Group Eleven Mining & Exploration Ltd	29-09-2016	Tipperary	Bm, b, s, g
3158	Connemara Mining Co. Ltd	23-05-2017	Laois	Bm, b, s, g
3160	Connemara Mining Co. Ltd	23-05-2017	Laois	Bm, b, s, g
3162	Omagh Minerals Ltd	18-03-2014	Leitrim	Bm, b, s, g
3163	Beal Na Blath Resources Ltd	03-07-2015	Roscommon	Bm, b, s, g, PGE
3169	Irish Resource Exploration Ltd	04-07-2011	Galway	Bm, b, s, g
3170	Irish Resource Exploration Ltd	29-06-2012	Galway	S, g
3194	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
3195	Unicorn Mineral Resources Ltd	20-03-2015	Kilkenny/ Waterford	Bm, b, s, g, PGE
3202	Beal Na Blath Resources Ltd	30-06-2015	Cork	Bm, b, s, g, PGE
3205	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
3206	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
3207	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
3208	Unicorn Mineral Resources Ltd	20-03-2015	Waterford	Bm, b, s, g, PGE
3211	Wolfhound Lithium Ltd	21-09-2016	Kilkenny	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
3213	Zimtu Capital Corp	30-11-2016	Kilkenny	Bm, g, REE, Lithium
3214	Kenmare Resources Plc.	24-11-2014	Kilkenny	Bm, b, s, g, PGE
3215	Zimtu Capital Corp	30-11-2016	Kilkenny	Bm, g, REE, Lithium
3216	Zimtu Capital Corp	30-11-2016	Kilkenny	Bm, g, REE, Lithium
3227	Gold Note Minerals Ltd	21-06-2013	Galway	Bm, s, g
3228	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
3229	Adventus Exploration Ltd	28-11-2013	Cork	Bm, b, s, g
3230	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
3232	Boliden Tara Mines Ltd	04-08-2017	Westmeath	Bm, b, s, g
3234	Omagh Minerals Ltd	31-05-2013	Donegal	Bm, b, s, g
3235	Omagh Minerals Ltd	30-03-2012	Donegal	Bm, b, s, g
3237	Diversified Asset Holdings Pty. Ltd	15-07-2015	Wexford	Bm, b, s, g, PGE, Iron
3248	Vedanta Exploration Ireland Ltd	20-03-2014	Roscommon	Bm, b, s, g, Calcite
3249	Unicorn Mineral Resources Ltd	29-09-2016	Limerick	Bm, b, s, g

PL	Licencee	Start	County	Minerals
3251	Beal Na Blath Resources Ltd	03-07-2015	Galway	Bm, b, s, g, PGE
3263	Connemara Mining Co. Ltd	23-05-2017	Laois	Bm, b, s, g
3267	Group Eleven Mining & Exploration Ltd	12-11-2016	Limerick	Bm, b, s, g
3268	Glencore Zinc Ireland Ltd	08-11-1991	Limerick	Bm, b, s
3273	Group Eleven Mining & Exploration Ltd	18-01-2017	Offaly	Bm, b, s, g
3281	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
3282	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3294	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3307	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
3312	Vedanta Exploration Ireland Ltd	30-06-2014	Laois	Bm, b, s, g, Calcite
3313	Connemara Mining Co. Ltd	14-07-2014	Kilkenny	Bm, b, s, g, PGE
3318	Centenary Resources Ltd	10-04-2017	Tipperary	Bm, b, s, g
3322	Vedanta Exploration Ireland Ltd	20-03-2014	Laois	Bm, b, s, g, Calcite
3323	Unicorn Mineral Resources Ltd	06-03-2015	Waterford	Bm, b, s, g, PGE
3324	Boliden Tara Mines Ltd	16-12-2005	Westmeath	Bm, b, s, g
3329	Teck Ireland Ltd	26-01-2012	Kildare	Bm, b, s, g, PGE
3331	Teck Ireland Ltd	30-11-2015	Kildare	Bm, b, s, g, PGE
3342	Glencore Zinc Ireland Ltd	21-05-1999	Limerick	Bm, b, s
3344	Glencore Zinc Ireland Ltd	25-05-1999	Limerick	Bm, b, s
3346	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
3366	Group Eleven Mining & Exploration Ltd	10-11-2016	Limerick	Bm, b, s, g
3367	TILZ Minerals Ltd	31-01-2005	Limerick	Bm, b, s, g, PGE
3368	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3369	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3370	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
3373	Boliden Tara Mines Ltd	01-03-1993	Meath	Bm, b, s
3374	Teck Ireland Ltd	08-08-2006	Kildare	Bm, b, s, g, PGE
3380	Bowpark Exploration Ireland Ltd	10-09-2010	Sligo	Bm, b, s, g
3381	Bowpark Exploration Ireland Ltd	10-09-2010	Sligo	Bm, b, s, g
3382	Bowpark Exploration Ireland Ltd	10-09-2010	Sligo	Bm, b, s, g
3397	Beal Na Blath Resources Ltd	27-04-2017	Cavan	Bm, b, s, g, PGE
3400	Conroy Gold and Natural Resources Plc	27-11-1996	Cavan	Bm, b, s, g
3405	Vedanta Exploration Ireland Ltd	10-11-2015	Westmeath	Bm, b, s, g
3407	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
3411	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
3423	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
3424	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
3425	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3426	IMC Exploration Ltd	12-05-2011	Tipperary	Bm, b, s
3427	Vedanta Exploration Ireland Ltd	20-03-2014	Kildare	Bm, b, s, g, Calcite
3429	Boliden Tara Mines Ltd	15-11-2006	Galway	Bm, b, s, g

PL	Licencee	Start	County	Minerals
3431	Glencore Zinc Ireland Ltd	30-05-2005	Limerick	Bm, b, s, PGE
3432	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
3435	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
3459	Beal Na Blath Resources Ltd	03-07-2015	Galway	Bm, b, s, g, PGE
3460	IMC Exploration Ltd	14-05-2011	Roscommon	Bm, b, s
3467	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
3469	Conroy Gold and Natural Resources Plc	28-02-2017	Monaghan	Bm, b, s, g
3470	Boliden Tara Mines Ltd	27-11-2006	Galway	Bm, b, s, g
3471	Boliden Tara Mines Ltd	27-11-2006	Galway	Bm, b, s, g
3475	Group Eleven Mining & Exploration Ltd	18-01-2017	Tipperary/ Offaly	Bm, b, s, g
3476	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3477	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3479	Unicorn Mineral Resources Ltd	06-07-2011	Galway	Bm, b, s, g, PGE, Fluorspar
3488	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3489	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3492	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3493	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3494	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3495	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3496	Connemara Mining Co. Ltd	08-12-2016	Donegal	Bm, s, g
3500	Conroy Gold and Natural Resources Plc	14-05-2012	Clare	Bm, b, s, g
3504	Conroy Gold and Natural Resources Plc	19-11-2011	Clare	Bm, b, s, g
3505	Adventus Zinc Ireland Ltd	05-02-2014	Galway	Bm, b, s, g
3508	Hannan Metals Ireland Ltd	17-04-2017	Clare	Bm, b, s, g, Calcite
3509	Hannan Metals Ireland Ltd	20-08-2012	Clare	Bm, b, s
3518	Unicorn Mineral Resources Ltd	06-03-2015	Waterford	Bm, b, s, g, PGE
3519	Unicorn Mineral Resources Ltd	05-04-2017	Waterford	Bm, b, s, g
3522	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3523	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3524	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3525	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3526	Beal Na Blath Resources Ltd	27-04-2017	Cavan	Bm, b, s, g, PGE
3527	Adventus Zinc Ireland Ltd	05-06-2017	Longford	Bm, b, s, g
3528	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
3529	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
3530	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
3531	Vedanta Exploration Ireland Ltd	10-11-2015	Westmeath	Bm, b, s, g
3535	Diversified Asset Holdings Pty. Ltd	05-05-2014	Cork	Bm, b, s, g, PGE
3536	Diversified Asset Holdings Pty. Ltd	05-05-2014	Cork	Bm, b, s, g, PGE
3537	Diversified Asset Holdings Pty. Ltd	05-05-2014	Cork	Bm, b, s, g, PGE
3538	Diversified Asset Holdings Pty. Ltd	05-05-2014	Cork	Bm, b, s, g, PGE
3544	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
3545	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3550	IMC Exploration Ltd	31-05-2011	Clare	Bm, b, s
3552	Group Eleven Mining & Exploration Ltd	04-11-2016	Tipperary	Bm, b, s, g
3555	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g

PL	Licencee	Start	County	Minerals
3556	Group Eleven Mining & Exploration Ltd	14-12-2015	Kerry	Bm, b, s, g
3559	Wolfhound Lithium Ltd	21-09-2016	Kilkenny	Bm, s, Beryllium, Caesium, Fluorspar, Lithium, Niobium, Rubidium, Tantalum, Tin
3570	Unicorn Mineral Resources Ltd	06-03-2015	Waterford	Bm, b, s, g, PGE
3571	Unicorn Mineral Resources Ltd	06-03-2015	Waterford	Bm, b, s, g, PGE
3574	Unicorn Mineral Resources Ltd	06-03-2015	Waterford	Bm, b, s, g, PGE
3575	Teck Ireland Ltd	26-06-2006	Westmeath	Bm, b, s, g, PGE
3576	Teck Ireland Ltd	26-06-2006	Westmeath	Bm, b, s, g, PGE
3579	Adventus Zinc Ireland Ltd	05-06-2017	Monaghan/ Cavan	Bm, b, s, g
3581	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
3582	Unicorn Mineral Resources Ltd	29-09-2016	Limerick	Bm, b, s, g
3583	Adventus Zinc Ireland Ltd	05-06-2017	Westmeath	Bm, b, s, g
3585	Vedanta Exploration Ireland Ltd	20-03-2014	Leitrim	Bm, b, s, g, Calcite
3586	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
3587	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
3589	Boliden Tara Mines Ltd	04-08-2017	Westmeath	Bm, b, s, g
3604	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3605	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
3608	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
3609	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
3611	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
3613	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3614	Teck Ireland Ltd	26-01-2012	Kildare	Bm, b, s, g, PGE
3615	Viridian Metals Ireland Ltd	28-05-2012	Galway	Bm, b, s, g, Dolomite and Dolomitic Limestone, Manganese, Silica Sand
3619	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3622	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
3636	Teck Ireland Ltd	08-08-2006	Meath	Bm, b, s, g, PGE
3637	Boliden Tara Mines Ltd	27-11-2006	Galway/ Roscommon	Bm, b, s, g
3638	Boliden Tara Mines Ltd	16-12-2005	Westmeath	Bm, b, s, g
3640	Hannan Metals Ireland Ltd	14-07-2008	Clare	Bm, b, s
3642	Hannan Metals Ireland Ltd	17-04-2017	Clare	Bm, b, s, g, Calcite
3643	Hannan Metals Ireland Ltd	25-05-1999	Clare	Bm, b, s
3644	IMC Exploration Ltd	12-05-2011	Clare	Bm, b, s
3645	Group Eleven Mining & Exploration Ltd	30-03-2017	Tipperary/ Kilkenny	Bm, b, s, g
3646	Group Eleven Mining & Exploration Ltd	30-03-2017	Tipperary	Bm, b, s, g
3647	Glencore Zinc Ireland Ltd	08-11-1991	Tipperary/ Limerick	Bm, b, s
3649	Vedanta Exploration Ireland Ltd	20-03-2014	Kildare	Bm, b, s, g, Calcite
3650	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
3651	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
3652	Boliden Tara Mines Ltd	04-08-2017	Westmeath/ Offaly	Bm, b, s, g

PL	Licencee	Start	County	Minerals
3654	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
3655	Ballinalack Resources Ltd	19-12-2011	Westmeath	Bm, b, s, g, PGE
3658	Teck Ireland Ltd	12-02-2012	Westmeath	Bm, b, s, g, PGE
3659	Teck Ireland Ltd	12-02-2012	Westmeath	Bm, b, s, g, PGE
3660	Teck Ireland Ltd	12-02-2012	Meath	Bm, b, s, g, PGE
3664	Teck Ireland Ltd	07-10-2008	Dublin	Bm, b, s, g
3665	Teck Ireland Ltd	07-10-2008	Dublin	Bm, b, s, g
3668	IMC Exploration Ltd	31-05-2011	Tipperary	Bm, b, s
3670	IMC Exploration Ltd	12-05-2011	Tipperary	Bm, b, s
3676	Hendrick Resources (Ireland) Ltd	13-01-2012	Wicklow	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
3677	IMC Exploration Ltd	12-05-2011	Tipperary	Bm, b, s
3678	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3679	Hannan Metals Ireland Ltd	19-12-2005	Clare	Bm, b, s, g
3681	Boliden Tara Mines Ltd	07-07-2012	Galway	Bm, b, s, g
3686	Vedanta Exploration Ireland Ltd	20-03-2014	Roscommon	Bm, b, s, g, Calcite
3693	Unicorn Mineral Resources Ltd	08-09-2010	Kilkenny	Bm, b, s, g, PGE, Cobalt, Iron
3694	Unicorn Mineral Resources Ltd	08-09-2010	Kilkenny/ Tipperary	Bm, b, s, g, PGE, Cobalt, Iron
3695	Unicorn Mineral Resources Ltd	08-09-2010	Kilkenny	Bm, b, s, g, PGE, Cobalt, Iron
3709	Zimtu Capital Corp	30-11-2016	Kilkenny	Bm, g, REE, Lithium
3713	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
3715	Adventus Zinc Ireland Ltd	07-11-2016	Waterford	Bm, b, s
3727	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3729	IMC Exploration Ltd	20-04-2011	Clare	Bm, b, s
3730	Adventus Exploration Ltd	24-01-2014	Louth	Bm, b, s, g, Gypsum
3731	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
3732	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
3733	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3735	Erris Resources Ltd	26-08-2013	Sligo	Bm, s, g
3743	Adventus Zinc Ireland Ltd	21-07-2016	Galway	Bm, b, s, g
3755	Boliden Tara Mines Ltd	07-07-2012	Galway	Bm, b, s, g
3757	Boliden Tara Mines Ltd	27-11-2006	Galway	Bm, b, s, g
3771	Oriel Selection Trust Ltd	30-01-2011	Mayo	Bm, b, s, g
3772	Oriel Selection Trust Ltd	30-01-2011	Mayo	Bm, b, s, g
3774	Oriel Selection Trust Ltd	21-10-2013	Mayo	Bm, b, s, g
3777	Canex JV	19-12-2011	Kildare	Bm, b, s, g
3782	Group Eleven Mining & Exploration Ltd	04-11-2016	Tipperary	Bm, b, s, g
3783	Group Eleven Mining & Exploration Ltd	18-12-2015	Kerry	Bm, b, s, g
3787	Hannan Metals Ireland Ltd	08-06-1994	Clare	Bm, b, s
3788	Hannan Metals Ireland Ltd	08-06-1994	Clare	Bm, b, s, Calcite, Fluorite
3789	Hannan Metals Ireland Ltd	08-06-1994	Clare	Bm, b, s
3801	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
3806	IMC Exploration Ltd	31-05-2011	Clare	Bm, b, s

PL	Licencee	Start	County	Minerals
3813	Centenary Resources Ltd	03-04-2017	Offaly/ Westmeath	Bm, b, s, g
3814	Centenary Resources Ltd	03-04-2017	Offaly	Bm, b, s, g
3819	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
3820	Connemara Mining Co. Ltd	10-04-2015	Donegal	Bm, s, g
3824	Aurum Mineral Resources Ltd	27-05-2004	Limerick	Bm, b, s, g
3825	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
3828	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3829	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3839	Teck Ireland Ltd	12-02-2012	Meath	Bm, b, s, g, PGE
3846	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
3848	Vedanta Exploration Ireland Ltd	20-03-2014	Roscommon	Bm, b, s, g, Calcite
3849	IMC Exploration Ltd	07-02-2013	Wicklow	Bm, b, s, g
3850	IMC Exploration Ltd	07-02-2013	Wicklow	Bm, b, s, g
3851	Boliden Tara Mines Ltd	30-04-2001	Meath	Bm, b, s
3852	Boliden Tara Mines Ltd	16-12-2005	Meath	Bm, b, s, g
3857	IMC Exploration Ltd	12-05-2011	Wicklow/ Wexford	Bm, b, s, g
3858	Group Eleven Mining & Exploration Ltd	28-11-2016	Limerick	Bm, b, s, g
3862	Viridian Metals Ireland Ltd	28-05-2012	Galway	Bm, b, s, g, Dolomite and Dolomitic Limestone, Manganese, Silica Sand
3863	Unicorn Mineral Resources Ltd	16-02-2016	Clare	Bm, b, s, g, PGE
3864	Blackstairs Lithium Ltd	07-08-2009	Wicklow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
3866	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
3870	Beal Na Blath Resources Ltd	27-04-2017	Monaghan	Bm, b, s, g, PGE
3871	Beal Na Blath Resources Ltd	20-06-2015	Monaghan	Bm, b, s, g, PGE
3878	Group Eleven Mining & Exploration Ltd	27-03-2017	Tipperary	Bm, b, s, g
3880	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
3880	Beal Na Blath Resources Ltd	03-07-2015	Galway	Bm, b, s, g, PGE
3881	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
3884	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
3887	Oriel Selection Trust Ltd	27-04-2005	Mayo	Bm, b, s, g
3891	Dan Morrissey (Ireland) Ltd	27-09-1999	Laois	Coal, Fireclay
3893	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
3894	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
3895	Zimtu Capital Corp	30-11-2016	Wexford	Bm, g, REE, Lithium

PL	Licencee	Start	County	Minerals
3896	Hendrick Resources (Ireland) Ltd	27-10-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
3899	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3901	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
3907	Group Eleven Mining & Exploration Ltd	18-01-2017	Offaly	Bm, b, s, g
3908	Glencore Zinc Ireland Ltd	17-07-2001	Limerick	Bm, b, s
3914	Centenary Resources Ltd	03-04-2017	Galway	Bm, b, s, g
3920	Boliden Tara Mines Ltd	04-08-2017	Offaly	Bm, b, s, g
3921	Connemara Mining Co. Ltd	10-04-2015	Donegal	Bm, s, g
3922	Connemara Mining Co. Ltd	10-04-2015	Donegal	Bm, s, g
3923	Adventus Zinc Ireland Ltd	22-09-2016	Limerick	Bm, b, s, g
3925	Oldcastle Zinc Ltd	28-01-2005	Meath	Bm, b, s, g, PGE
3926	Oldcastle Zinc Ltd	28-01-2005	Meath	Bm, b, s, g, PGE
3929	Oriel Selection Trust Ltd	27-04-2005	Mayo	Bm, b, s, g
3930	Oriel Selection Trust Ltd	27-04-2005	Mayo	Bm, b, s, g
3931	Dan Morrissey (Ireland) Ltd	27-04-2005	Laois/ Carlow	Coal, Fireclay
3932	Boliden Tara Mines Ltd	16-12-2005	Westmeath	Bm, b, s, g
3934	Vedanta Exploration Ireland Ltd	23-11-2015	Roscommon	Bm, b, s, g, Iron
3936	Ballinalack Resources Ltd	20-02-2006	Westmeath	Bm, b, s, g, PGE
3937	Teck Ireland Ltd	26-06-2006	Westmeath	Bm, b, s, g, PGE
3938	Teck Ireland Ltd	26-06-2006	Meath	Bm, b, s, g, PGE
3939	Teck Ireland Ltd	26-06-2006	Meath	Bm, b, s, g, PGE
3940	Boliden Tara Mines Ltd	25-01-2007	Offaly	Bm, b, s, g
3941	Boliden Tara Mines Ltd	25-01-2007	Offaly	Bm, b, s, g
3942	Boliden Tara Mines Ltd	15-11-2006	Offaly	Bm, b, s, g
3943	Boliden Tara Mines Ltd	25-01-2007	Offaly	Bm, b, s, g
3944	Boliden Tara Mines Ltd	25-01-2007	Westmeath	Bm, b, s, g
3945	Boliden Tara Mines Ltd	25-01-2007	Westmeath	Bm, b, s, g
3946	Boliden Tara Mines Ltd	25-01-2007	Offaly/ Westmeath	Bm, b, s, g
3947	Boliden Tara Mines Ltd	25-01-2007	Westmeath	Bm, b, s, g
3948	Boliden Tara Mines Ltd	25-01-2007	Westmeath	Bm, b, s, g
3953	Group Eleven Mining & Exploration Ltd	29-09-2016	Tipperary	Bm, b, s, g
3954	Group Eleven Mining & Exploration Ltd	29-09-2016	Tipperary	Bm, b, s, g
3955	Group Eleven Mining & Exploration Ltd	29-09-2016	Tipperary	Bm, b, s, g
3956	Boliden Tara Mines Ltd	25-01-2007	Offaly/ Westmeath	Bm, b, s, g
3957	Group Eleven Mining & Exploration Ltd	30-03-2017	Kilkenny	Bm, b, s, g
3963	Unicorn Mineral Resources Ltd	08-08-2012	Galway	Bm, b, s, g, PGE, Fluorspar
3964	Adventus Zinc Ireland Ltd	05-02-2014	Galway	Bm, b, s, g
3965	Adventus Zinc Ireland Ltd	05-02-2014	Galway	Bm, b, s, g
3967	Erris Resources Ltd	26-08-2013	Sligo	Bm, s, g
3971	Canada Resources Plc	09-10-2015	Donegal	Bm, b, s, g, PGE, REE, Iron, Niobium, Tantalum, Tungsten

PL	Licencee	Start	County	Minerals
3978	Canada Resources Plc	09-10-2015	Donegal	Bm, b, s, g, PGE, REE, Iron, Niobium, Tantalum, Tungsten
3979	Canada Resources Plc	09-10-2015	Donegal	Bm, b, s, g, PGE, REE, Iron, Niobium, Tantalum, Tungsten
3980	Group Eleven Mining & Exploration Ltd	18-01-2017	Offaly	Bm, b, s, g
3981	Minco Ireland Ltd	03-11-2015	Westmeath	Bm, b, s, g
3985	Vedanta Exploration Ireland Ltd	23-11-2015	Westmeath	Bm, b, s, g, Iron
3989	Boliden Tara Mines Ltd	08-07-2015	Meath	Bm, b, s, g
3990	Boliden Tara Mines Ltd	20-04-2011	Meath	Bm, b, s, g
3991	Teck Ireland Ltd	07-10-2008	Meath	Bm, b, s, g
3992	Teck Ireland Ltd	07-10-2008	Dublin	Bm, b, s, g
3994	Group Eleven Mining & Exploration Ltd	10-11-2016	Limerick	Bm, b, s, g
3995	Boliden Tara Mines Ltd	22-02-2010	Offaly	Bm, b, s, g
3996	Vedanta Exploration Ireland Ltd	10-11-2015	Longford	Bm, b, s, g
4003	Oriel Selection Trust Ltd	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Lithium
4004	Oriel Selection Trust Ltd	25-02-2010	Donegal	Bm, b, s, g, PGE, REE
4031	Blackstairs Lithium Ltd	07-08-2009	Carlow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
4032	Blackstairs Lithium Ltd	07-08-2009	Wicklow	Bm, s, g, REE, Beryllium, Caesium, Lithium, Niobium, Rubidium, Tantalum
4033	Sunrise Resources Plc	23-11-2009	Cork	Bm, b, s, g, PGE
4034	Omagh Minerals Ltd	31-05-2013	Donegal	Bm, b, s, g
4035	Centenary Resources Ltd	10-04-2017	Tipperary	Bm, b, s, g
4038	Erris Resources Ltd	30-09-2013	Sligo	Bm, b, s, g
4041	Vedanta Exploration Ireland Ltd	23-07-2015	Laois	Bm, b, s, g
4042	Vedanta Exploration Ireland Ltd	23-07-2015	Laois	Bm, b, s, g
4043	Vedanta Exploration Ireland Ltd	09-03-2015	Laois	Bm, b, s, g
4045	Boliden Tara Mines Ltd	06-02-2011	Offaly	Bm, b, s, g
4051	Boliden Tara Mines Ltd	20-04-2011	Meath	Bm, b, s, g
4052	Teck Ireland Ltd	26-01-2012	Meath	Bm, b, s, g, PGE
4053	Connemara Mining Co. Ltd	07-07-2011	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
4054	Zimtu Capital Corp	30-11-2016	Wexford	Bm, g, REE, Lithium
4057	Unicorn Mineral Resources Ltd	04-07-2011	Offaly	Bm, b, s, g, PGE, Fluorspar
4068	Teck Ireland Ltd	30-11-2015	Kildare	Bm, b, s, g, PGE
4069	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
4070	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
4072	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
4073	Raptor Resources Ltd	21-09-2015	Kildare	Bm, b, s, g, PGE
4075	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
4076	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g

PL	Licencee	Start	County	Minerals
4077	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
4078	Adventus Exploration Ltd	01-07-2013	Cork	Bm, b, s, g
4079	Hendrick Resources (Ireland) Ltd	13-01-2012	Wicklow	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
4080	Hendrick Resources (Ireland) Ltd	13-01-2012	Wicklow	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
4081	Hendrick Resources (Ireland) Ltd	12-01-2012	Wexford	Bm, b, s, g, PGE, Caesium, Lithium, Niobium, Tantalum, Tin, Tungsten
4092	Boliden Tara Mines Ltd	20-03-2012	Meath	Bm, b, s, g
4095	Unicorn Mineral Resources Ltd	24-05-2012	Clare	Bm, b, s, g, PGE, Fluorspar
4098	Conroy Gold and Natural Resources Plc	16-07-2012	Cavan	Bm, b, s, g
4099	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
4100	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
4101	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
4102	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
4103	Adventus Exploration Ltd	27-06-2013	Cork	Bm, b, s, g
4104	Adventus Exploration Ltd	30-06-2013	Cork	Bm, b, s, g
4121	Group Eleven Mining & Exploration Ltd	29-09-2016	Limerick	Bm, b, s, g
4236	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
4248	Beal Na Blath Resources Ltd	27-04-2017	Monaghan	Bm, b, s, g, PGE
4251	Beal Na Blath Resources Ltd	27-04-2017	Monaghan	Bm, b, s, g, PGE
4257	Adventus Exploration Ltd	24-01-2014	Meath	Bm, b, s, g, Gypsum
4363	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
4364	Beara Coast Copper	22-11-2016	Cork	Bm, s, g, PGE
4469	Erris Resources Ltd	26-08-2013	Sligo	Bm, s, g
4470	Zetland Resources Ltd	03-07-2013	Galway	Bm, b, s, g
4470	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
4471	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
4471	Zetland Resources Ltd	03-07-2013	Galway	Bm, b, s, g
4472	Zetland Resources Ltd	08-07-2015	Galway	Gemstones including semi-precious stones
4472	Zetland Resources Ltd	03-07-2013	Galway	Bm, b, s, g
4473	Ballinalack Resources Ltd	15-04-2013	Westmeath	Bm, b, s, g, PGE
4474	Diversified Asset Holdings Pty. Ltd	31-05-2013	Tipperary/ Limerick	Bm, b, s, g
4477	Boliden Tara Mines Ltd	28-06-2013	Meath	Bm, b, s, g
4478	Boliden Tara Mines Ltd	28-06-2013	Meath	Bm, b, s, g
4479	Boliden Tara Mines Ltd	28-06-2013	Meath	Bm, b, s, g
4480	Diversified Asset Holdings Pty. Ltd	28-11-2013	Tipperary	Bm, b, s, g
4484	Adventus Exploration Ltd	24-01-2014	Monaghan	Bm, b, s, g, Gypsum
4485	Adventus Exploration Ltd	05-02-2014	Monaghan	Bm, b, s, g, Gypsum
4486	Adventus Exploration Ltd	24-01-2014	Louth	Bm, b, s, g, Gypsum

PL	Licencee	Start	County	Minerals
4489	Adventus Zinc Ireland Ltd	05-02-2014	Mayo	Bm, b, s, g
4491	Boliden Tara Mines Ltd	19-04-2002	Meath	Bm, b, s
4498	Group Eleven Mining & Exploration Ltd	12-02-2015	Tipperary	Bm, b, s, g
4499	Oriel Selection Trust Ltd	12-12-2016	Donegal	Bm, b, s, g, PGE, REE, Lithium
4500	Oriel Selection Trust Ltd	29-05-2015	Donegal	Bm, b, s, g, PGE, REE
4502	Boliden Tara Mines Ltd	26-10-1970	Meath	Bm, b, s, g
4503	Group Eleven Mining & Exploration Ltd	29-09-2016	Tipperary	Bm, b, s, g
4504	Connemara Mining Co. Ltd	05-12-2016	Cork	Bm, b, s, g
4505	Connemara Mining Co. Ltd	05-12-2016	Cork	Bm, b, s, g
4506	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
4507	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
4508	Adventus Zinc Ireland Ltd	16-06-2017	Cork	Bm, b, s, g
4509	Centenary Resources Ltd	10-04-2017	Offaly	Bm, b, s, g
4510	Centenary Resources Ltd	10-04-2017	Tipperary	Bm, b, s, g
4513	Shanoon Resources Ltd	13-07-2017	Kilkenny/ Laois	Bm, b, s, Dolomite and Dolomitic Limestone
4514	Shanoon Resources Ltd	13-07-2017	Kilkenny	Bm, b, s, Dolomite and Dolomitic Limestone
4515	Shanoon Resources Ltd	13-07-2017	Kilkenny	Bm, b, s, Dolomite and Dolomitic Limestone
4516	BMEx Pty Ltd	02-10-2017	Cork	Bm, b, s, g

Prospecting Licences Accepted and Advertised

These are licences that are in the process of being issued for certain minerals, and are indicated by their reference number and a brown colour on the online map.

PL Area	Applicant	County
1695	BMEx Pty Ltd	Cavan
3794	Irish Marine Oil Ltd	Kildare
4087	BMEx Pty Ltd	Cavan

Ireland: Exploration & Mining News

1st November 2017

Mining Highlights

Mine Operations

There are currently two operating mines in Ireland (Figure 1): Navan (zinc-lead) and Drummond (gypsum). Underground Zn-Pb production from the Lisheen Mine ceased in October 2015. The Galmoy Zn-Pb Mine terminated its mining operations in October 2012.

2017 Half Yearly (Jan-June) Mine Production

- Zinc metal in concentrates: 66kt (Equivalent figure for H1, 2016 was 75kt)
- Lead metal in concentrates: 9kt (Equivalent figure for H1, 2016 was 10kt)

2017 Half Yearly (Jan-June) Mine Output (Metal Content)

(a) Zinc

- Ireland produced 12.4% of European zinc mine output in H1, 2017 (3rd in Europe)
- Ireland produced 1.0% of World zinc mine output in H1, 2017 (14th in World)

(b) Lead

- Ireland produced 4.1% of European lead mine output in H1, 2017 (5th in Europe)
- Ireland produced 0.35% of World lead mine output in H1, 2017 (21st in World)

Source of Production Data: International Lead & Zinc Study Group

Mining

In the first half of 2017, the Navan underground zinc-lead mine accounted for approximately twelve percent of European zinc mine output (18.6% of EU28 production) and 4.1% of European lead mine output (9.9% of EU28 production). Output from the mine also amounted to 1.0% of world mine production for zinc and 0.35% for lead. According to data published by the International Lead and Zinc Study Group, in the first half of 2017, Ireland ranked 14th and 21st in the world in relation to zinc and lead mine output respectively. Following the cessation of operations at Lisheen in late 2015, Ireland now places third in Europe, behind the Russian Federation and Sweden, in terms of European mine production for zinc.

Boliden Tara Mines Ltd's underground operation at **Navan**, Co. Meath, is the largest zinc mine in Europe. In June of this year, the mine celebrated 40 years in production. In the first half of 2017, Boliden Tara Mines Limited milled 1.15Mt of ore grading 6.08% Zn and 1.2% Pb. Since mining operations commenced in 1977, total production at Navan has amounted to 91.41Mt grading 7.89% Zn and 1.81% Pb. At the end of 2016, the mine's JORC classified ore reserves (proven and probable) stood at 16.5Mt grading 6.3% Zn and 1.6% Pb, whilst mineral resources (measured, indicated and inferred) were 17.8Mt at 7.5% Zn and 1.9% Pb. The resource figures include an additional 10Mt of inferred resource from the newly discovered Tara Deep project. This mineralization, located approximately 2km from the existing mine, occurs at depths of between 1,200 and 1,900m and grades 8.5% Zn and 1.8% Pb. **Boliden Tara Mines** has also recently been granted planning permission by An Bord Pleanála for a lateral extension to its tailings management facility.

The **Vedanta Resources Plc** owned **Lisheen** Mine ceased mining operations in December 2015. The company is presently working with Tipperary County Council, the Environmental Protection Agency (EPA) and the Exploration and Mining Division (EMD) to ensure the orderly closure of the mine in accordance with all

statutory permits. Since mining commenced in 1999, over 22Mt of ore grading approximately 11.5% Zn and 2% Pb was produced at Lisheen.

Irish Gypsum Ltd., a subsidiary of French multi-national Saint Gobain, produced over 250kt of gypsum in 2016 from its underground mine at **Drummond**, Co. Monaghan. The gypsum is crushed and blended on site, before being transported by road to a production facility at the nearby town of Kingscourt for manufacturing plaster and plasterboard. A smaller tonnage of gypsum is additionally used in the manufacture of cement.

Exploration Highlights

Number of Current Prospecting Licences (PLs):	609
Number of Companies holding Prospecting Licences:	45
Percentage of Ireland Land Area under Licence:	Approx. 25%
Total Exploration Expenditure in 2016:	€13.11 Million
Exploration Expenditure on PLs in 2016:	€10.86 Million
Exploration Expenditure on State Mining Facilities in 2016:	€2.25 Million
2016 Drilling on PLs (non-mine related):	Approx. 35,000 metres.

Exploration Activity

As of 20th October 2017, forty five corporate entities held a total of 609 Prospecting Licences (PLs). A further 33 Prospecting Licence applications are currently being processed. Since 1st May 2017, 51 licences have been issued. Of these licences, twenty three have been granted to Adventus Zinc Ireland Ltd and twelve have been issued to Australian-based, new entrant BMEx Pty Ltd. Another new entrant, Shanoon Resources Ltd has been awarded three PLs in the Galmoy area of Co. Kilkenny. Other companies who have been granted Prospecting licences since the publication of the last PL Competition Map include: Connemara Mining Co. Ltd (5 PLs in Co. Laois), Boliden (5 PLs in Cos Westmeath and Offaly), Hannan Metals Ireland Ltd (1 PL in Co Clare), Raptor Resources Ltd (1 licence in Co. Offaly) and Teck Ireland Ltd (1 PL in Co. Meath).

Zinc and lead remain the principal commodities of exploration interest in Ireland. Other commodities that are currently being sought in Ireland include: gold, silver, copper, lithium, antimony, barite, PGEs, molybdenum, tungsten, tin, REE, gem minerals, calcite, fluorite and gypsum.

Group Eleven Mining and Exploration Ltd currently control the largest ground position in Ireland comprising 99 Prospecting Licences that cover an area of 3,200km². The company exclusively holds 82 licences in four main project areas; Pallas Green West (34 PLs), Silvermines North (19 PLs), Tralee (15 PLs) and Silvermines (5 PLs). In addition, Group Eleven has recently acquired Teck's 60% interest in Ballinalack Resources Ltd (11 PLs centred on the **Ballinalack** deposit) and 76.56% stake in TILZ Minerals Ltd '**Stonepark** Project' (6 licences).

Following a corporate re-organization, **Adventus Exploration Ltd** has assigned 49 of its zinc exploration focused licences to **Adventus Zinc Ireland Ltd** ('AZIL'), a wholly-owned subsidiary of Toronto TSX.V listed Adventus Zinc Corporation. In the past year, the company has completed a 25 line kilometre seismic survey at its **Rathkeale** Block (Co. Limerick) and completed structural-stratigraphic reinterpretations and geochemical orientation studies on the Lismore block. Basic generative studies are ongoing on a number of other licence blocks. As part of an earn in/joint venture agreement, Teck Ireland Ltd has completed a number of drillholes on AZIL's **Moynalty Basin** licence block. Forty-six PLs in Southwest Cork continue to be held by Adventus Exploration Ltd ('AEL'). Earlier this year, AEL executed a Letter of Intent with **First Quantum Minerals Ltd** to advance exploration of the region's sediment-hosted copper potential. As part of a joint approach LGC-soil geochemical studies and associated petrographic work, as well as a 4600 regional soil sampling survey, have been completed.

Teck Ireland Ltd. currently hold 49 PL areas. In 2017, Teck undertook exploration work on their Enfield and Kinnegad Blocks, including a 2D seismic survey across the Enfield Block in July 2017 and exploration drilling on the Kinnegad Block

Glencore Zinc Ireland Ltd. has re-started drilling at its **Pallas Green** prospect in Co. Limerick, with eight rigs on site. A Glencore spokesman said that any decision about building a fully-fledged mine at the site was "a long way down the road".

In July 2017, **Hannan Metals Ltd** published a maiden mineral resource for the Zn-Pb-Ag-Cu **Kilbricken** project in Co. Clare. Total indicated mineral resources were calculated as 2.7 million tonnes at 8.8% zinc equivalent ("ZnEq"), including 1.4 million tonnes at 10.8% Zneq and total inferred mineral resources of 1.7 million tonnes at 8.2% ZnEq, including 0.6 million tonnes at 10.4% ZnEq. The company report that this resource places Kilbricken as one of the top ten base metal deposits discovered in Ireland by tonnes and grade. Hannan has completed a number of drillholes at Kilbricken in 2017. The most significant intercept reported to date was for DH 17-3679-217, which intersected 8m @ 4.1% Zn, 33.7% Pb and 174 g/t Ag from 528m, including 3.2m @ 8.4% Zn, 72.8% Pb and 388 g/t Ag.

Connemara Mining Company Ltd has recently announced that it has acquired 100% of the Irish subsidiary of Hendrick Resources for a royalty agreement comprising 2 per cent. The company also announce the appointment of Patrick Cullen as Chief Executive Officer effective from 14 August 2017. The company has resumed drilling on its **Inishowen** gold licences in Donegal.

Raptor Resources Ltd., a 100% owned subsidiary of Australian Securities Exchange listed **Zinc of Ireland NL**, has announced encouraging exploration results for its **Kildare** project, that hosts a number of Mississippi Valley Type (MVT) zinc-lead bodies near Allenwood. Since acquiring its Kildare licences in late 2015, the company has completed over 4000m of drilling at its McGregor, Shamrock and newly identified Celtic Tiger prospects. Significant drillhole intersections include 23.3m @ 13.5% Zn+Pb from 396.5m (McGregor, June 2017), 15.65m @ 11.17% Zn+Pb from 417m (Shamrock, October 2016) and 2.85m @ 21.1% Zn+Pb from 194m (Celtic Tiger, July 2017). In May 2017, the company additionally completed a JORC compliant mineral resource for the McGregor and Shamrock prospects based primarily on historical drilling information. The published inferred mineral resource amounted to 5.2Mt @ 7.2% Zn and 1.4% Pb (with McGregor totaling 4.1Mt @ 8.9% Zn+Pb and Shamrock 1.1Mt @ 7.4% Zn+Pb).



Figure 1: County Map of Ireland showing locations mentioned in text.

BL	Ballinalack
DR	Drummond
IN	Inishowen
KB	Kilbricken
KE	Kildare
LI	Lisheen
MB	Moynalty Basin
NA	Navan
PG	Pallas Green
RK	Rathkeale
SM	Silvermines
SP	Stonepark

Minerals Development Act 2017

On 26th July the President signed the Minerals Development Act 2017 into law. The Act provides a modern regulatory regime for exploration and development of minerals, whether in State or private ownership. The Act provides for greater transparency and predetermination of terms, including rents and royalties, which will streamline the permitting process, and bring other aspects of the regulation of the minerals sector into line with current best practice.

It repeals the majority of Mineral Development Acts dating from the 1940s and replaces them with a modern fit-for-purpose legislative code. The Act is one of the largest pieces of legislation enacted this year consisting of some 250 sections.

The next task will be the drafting of the secondary legislation or Statutory Instruments which Exploration and Mining Division will carry out over the coming months in order to implement the Act.

Appendices

- **Publicly Available Prospecting Licence Area Data**
- **Addresses of Companies holding State Facilities**

Publicly Available Prospecting Licence Area Data

Public viewing access

Publicly available Prospecting Licence area data consists of non-confidential company work reports, both on surrendered Prospecting Licences, and on work more than 6 years old in current Prospecting Licences.

This 'open file' data is available for viewing by members of the public from the Geological Survey of Ireland (www.gsi.ie), Department of Communications, Climate Action and Environment, Beggars Bush, Haddington Road, Dublin, D04 K7X4 and also from the Exploration and Mining Division, (www.DCCAE.gov.ie) 29/31 Adelaide Road, Dublin, D02 X285 (only for data released from 1st January, 2000).

The following viewing arrangements currently apply:

- Access to the Databank held by GSI. By making an appointment with the Minerals Section to view the reports at the GSI (see contact below), or by visiting the GSI Customer Centre and accessing the databanks through the public computer system.
- Digital copies of these may be obtained. Please contact GSI for details and charges. All digital data from EMD is free.
- Photocopies (b/w). These are supplied at cost. Currently the charges are: A0 €6.00; A1 €5.00; A2 €3.00; A3 €0.30; A4 €0.15

For appointments or further information, please contact either the **Geological Survey of Ireland**, Gerry Stanley of the Minerals Section, Tel: 01 678 2863, Gerry.Stanley@gsi.ie, or the **Exploration and Mining Division** (Dr Wayne Cox, Tel: 01 678 2677, Wayne.Cox@DCCAE.gov.ie).

Catalogue of Open File Data

A digital copy of the 'Catalogue of Exploration Company Open File Data' is available free of charge from the Geological Survey. The catalogue lists all of the approximately 75,000 individual items (reports, maps, sections, drill logs), which are currently held in the open file system. The Catalogue is available as an Access database on CD and may be obtained by applying to Gerry Stanley of the Minerals Section, Tel: 01 678 2863 or: Gerry.Stanley@gsi.ie.

Online Data Availability

Since mid-2003, the Exploration and Mining Division have been progressively providing publicly available company exploration data released since 1st January 2000 on the www.mineralsireland.ie website. Data relating to over 1700 PL areas, including those in the current PL competition, are now available.

Addresses of Companies Holding State Facilities

A. Prospecting Licences

Name	Addresses
Adventus Exploration Limited	69-70 Main Street, Oughterard, Galway, H91 E827, Ireland
Adventus Zinc Ireland Ltd	69-70 Main Street, Oughterard, Galway, H91 E827, Ireland
Aurum Mineral Resources Ltd.	c/o Alba Mineral Resources Plc, Ridge House, The Ridge, Broadblunsdon, Swindon, SN26 7AD, United Kingdom
Ballinalack Resources Ltd	The Murrough, Wicklow, Wicklow, A67 K039, Ireland
Beal Na Blath Resources Ltd	Gokane Point, Tragumna, Skibbereen, Cork, Ireland
Beara Coast Copper	67 Hillhurst Boulevard, Toronto, Ontario, M5N 1N5, Canada
Blackstairs Lithium Limited	c/o Company Bureau Formations Limited, The Black Church, St Mary's Place, Dublin, D07 P4AX, Ireland
BMEx Pty Ltd	2 Benson Street, Toowong, Queensland, 4066, Australia
Boliden Tara Mines Ltd.	Knockumber, Navan, Meath, C15 NH63, Ireland
Bowpark Exploration Ireland Ltd	Noreview, Thomastown, Kilkenny, R95 R5H9, Ireland
Canada Resources Plc	27 Hatch Street Lower, Dublin, Dublin, D02 W628, Ireland
Canex JV	12 Durham Road, Sandymount, Dublin, D04 ED61, Ireland
Centenary Resources Ltd	53 Bayview Avenue, North Strand, Dublin 3, D03 P2Y9, Ireland
Connemara Mining Co. Ltd.	162 Clontarf Road, Dublin, D03 F6Y0, Ireland
Conroy Gold and Natural Resources Plc	9 Merrion Square North, Dublin, D02 WN50, Ireland
Conroy Gold Limited	9 Merrion Square North, Dublin, D02 WN50, Ireland
Dan Morrissey (Ireland) Ltd	Dan Morrissey (IRL) Ltd, Bennekerry, Carlow, R93 E099, Ireland
Diversified Asset Holdings Pty. Ltd	44 Kings Park Road, West Perth, Western Australia, Australia 6005, Australia
Erris Resources Limited	209 Tower Bridge Business Centre, 46-48 East Smithfield, London, E1W 1AW, United Kingdom
Glencore Zinc Ireland Ltd	Unit 1, Dromkeen Industrial Park, Dromkeen, Limerick, V94 TW59, Ireland
Gold Note Minerals Limited	1158-409, Granville Street, Vancouver, BC, V6C 1T2, Canada
Group Eleven Mining and Exploration Limited	22 Northumberland Road, Ballsbridge, Dublin, D04 ED73, Ireland
Hannan Metals Ireland Ltd	Blair House, Upper O'Connell Street, Ennis, Clare, V95 FD1V, Ireland
Hendrick Resources (Ireland) Ltd	c/o BRG Ltd, Unit 8b Block C, Athy Business Campus, Athy, Kildare, R14 FF96, Ireland
IMC Exploration Limited	70 Ballybough Road, Ballybough, Dublin, D03 F9P7, Ireland
Irish Resource Exploration Ltd	22 Northumberland Road, Ballsbridge, Dublin, D04 ED73, Ireland
Kenmare Resources Plc.	Chatham House, Chatham Street, Dublin, D02 VP46, Ireland
Minco Ireland Ltd.	Coolfore Road, QME, Ardbracken, Navan, Meath, C15 KXY3, Ireland
MOAG Copper Gold Resources Inc	21 Burkebrook Place, Suite 405, Toronto, Ontario, M4G 0A2, Canada
Oldcastle Zinc Limited	162 Clontarf Road, Dublin, D03 F6Y0, Ireland
Omagh Minerals Ltd	56 Botera Upper Road, Omagh, Co Tyrone, BT78 5LH, Northern Ireland
Oriel Selection Trust Ltd.	Aurum Exploration Services Ltd, Unit 34, Kells Business Park, Virginia Road, Kells, Meath, A82 E6K0, Ireland
Raptor Resources Ltd	Gokane Point, Tragumna, Skibbereen, Cork, Ireland
Rennicks and Bennett Ltd.	c/o Boliden Tara Mines Ltd., Knockumber, Navan, Meath, C15 NH63, Ireland
Shanoon Resources Limited	New Work Junction, Dublin Road, Kilkenny, Kilkenny, R95 VP83, Ireland
Sunrise Resources Plc	Silk Point, Queens Avenue, Macclesfield, Cheshire, SK10 2BB, United Kingdom

Name	Addresses
Teck Ireland Limited	The Murrough, Wicklow, A67 K039, Ireland
TILZ Minerals Ltd	12 Merrion Square, Dublin, D02 H798, Ireland
Unicorn Mineral Resources Ltd	c/o BRG Ltd, 8b, Unit C, Athy Business Campus, Castlecomer Road, Athy, Kildare, R14 FF96, Ireland
Vedanta Exploration Ireland Ltd	Killoran, Moyne, Thurles, Tipperary, E41 R622, Ireland
Viridian Metals Ireland Ltd	70 Sir John Rogerson's Quay, Dublin, D02 R296, Ireland
Westland Exploration Ltd.	c/o Peter McParland, Coolfore Road QME, Ardbracken, Navan, Meath, C15 KXY3, Ireland
Wolfhound Lithium Ltd	Gokane Point, Tragumna, Skibbereen, Cork, Ireland
Zetland Resources Limited	c/o Zetland House Hotel, Cashel, Connemara, Galway, H91 AW61, Ireland
Zimtu Capital Corp	Suite 1450-789 West Pender Street, Vancouver, British Columbia, V6C 1H2, Canada

B. Mining Facilities

Name	Addresses
Boliden Tara Mines Ltd.	Knockumber House, Knockumber, Navan, Co Meath, C15 NH63, Ireland
Fleming's Fireclays Ltd.	The Swan, Athy, Co Kildare, R14 TE81, Ireland
Irish Gypsum Ltd.	Unit 4, Kilcarbery Business Park, Nangor Road, Dublin, D22 R277, Ireland
Killoran Lisheen Mining Ltd.	Killoran, Moyne, Thurles, Co Tipperary, E41 R622, Ireland
Vedanta Lisheen Mining Ltd.	The Lisheen Mine, Killoran, Moyne, Thurles, Co Tipperary, E41 R622, Ireland
Connemara Marble Products Ltd.	Moycullen, Co Galway, H91 T207, Ireland
Joyce's Marble Quarries Ltd.	Lissoughter, Recess, Connemara, Co Galway, H91 K3E8, Ireland
Lisheen Milling Ltd.	41/45 St. Stephen's Green, Dublin 2, Ireland

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