image shows extractive work for illustrative purposes

Acknowledgement of Victoria’s Traditional Owners

The Victorian Government proudly acknowledges Victorian Traditional Owners as Victoria’s first peoples and pays its respects to their Elders past and present.

We recognise the intrinsic connection of the first peoples to their Country for countless generations and their inherent obligation to maintain and strengthen their distinct cultural rights and responsibilities to care for their Country.

We value Traditional Owners’ role in the management of land, water and biodiversity and acknowledge the ongoing contribution this makes to our earth resources.

We have distinct legislative obligations to Traditional Owner groups that are paramount in our responsibilities in managing Victoria’s resources.

We support the need for genuine and lasting partnerships with Aboriginal people and communities to understand culture and connections to Country in the way we plan for and regulate our earth resources.

Disclaimer

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Authorised by the Victorian Government  
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ISBN 978-1-925629-21-7 (pdf/online)

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# Executive summary

In 2015-16, the activity[[1]](#footnote-1) and level of investment in the earth resources industries varied significantly. There was a decrease in petroleum and geothermal sector activity while mining licence expenditure increased by 10%.

In the petroleum sector, activity remained limited to production and injection at the Iona gas storage facility and carbon dioxide production at Boggy Creek, both of which are located in the onshore Otway Basin area.

The total number of MRSDA licences held by Earth Resources Regulation as at 30 June 2016 was 439, a reduction of 6% compared to 2014-15.

The minerals sector continued to reflect the trend of the past five years that shows that there has been a fluctuating mineral commodity market. Production of brown coal decreased by 2%. Gold production volume increased by more than 29% from 198,387 ounces to 249,692 ounces, the highest overall output since 2011-12.

Sales of extractive industry products increased by $33.5 million in 2015-16, an increase of 4.5%. In contrast, volume extracted fell from 50 million tonnes to 47.3 million tonnes, a decrease of 5.4%.

State revenue (rent, royalty and administrative charges) derived from the earth resources sector totalled $51.9 million, an increase of $0.1 million. The amounts collected in relation to rent fell while amounts collected in relation to royalty, fees & charges increased. Mine stability levy revenue remained unchanged.

During 2017, a review process will be conducted to enhance the value of future Statistical Reports to the earth resources industry.

# Introduction

The Earth Resources Regulation Branch (ERR) in the Department of Economic Development, Jobs, Transport and Resources (DEDJTR) is responsible for the regulation of the minerals, extractives, petroleum, pipelines, geothermal and carbon storage industries in Victoria and offshore (Victorian) waters. The Branch provides a consistent and transparent tenement management regime, together with monitoring and enforcement that ensure these industries comply with their statutory obligations and meet community expectations.

Earth Resources Regulation administered the following Acts in 2015-16:

* Mineral Resources (Sustainable Development) Act 1990 (MRSDA) (mineral exploration, mining and quarrying);
* Offshore Petroleum and Greenhouse Gas Storage Act 2010 (OPGGSA) (petroleum exploration and development, greenhouse gas storage and pipelines in the Victorian offshore waters);
* Petroleum Act 1998 (petroleum exploration and development onshore);
* Pipelines Act 2005 (licensing and regulation of high pressure pipelines onshore);
* Geothermal Energy Resources Act 2005 (geothermal energy exploration and development); and
* Greenhouse Gas Geological Sequestration Act 2008 (greenhouse gas storage onshore).

The 2015-16 Statistical Report is a compilation of data as reported by Victoria’s earth resources industry to Earth Resources Regulation. The report includes data on production, exploration, expenditure, licensing, revenues and regulatory actions.

All production and expenditure figures are certified by authority holders and submitted to ERR.

Victoria’s earth resource industry production includes:

* gas and carbon dioxide – from onshore;
* brown coal – used almost exclusively for power generation;
* gold;
* antimony;
* industrial minerals – including gypsum, feldspar, rutile, zircon, ilmenite and kaolin; and
* extractive materials (rock, sand and clay) – used mainly for building and road construction.

# Petroleum, geothermal and pipelines

## Petroleum

Victoria’s petroleum exploration is concentrated in the Otway and Gippsland Basins, with activities undertaken onshore and within Victorian offshore waters. Production activity is limited to the Otway Basin.

Offshore activities concern waters effectively within three nautical miles off the coast, as covered by Victorian legislation. Waters greater than three nautical miles offshore from the coast are Commonwealth waters and are as such covered by Commonwealth legislation and therefore not included in this Report.

The moratorium of onshore drilling activities remained during 2015-16.

## Petroleum tenements

In 2015-16, no Petroleum Exploration Permits, Retention Leases or Production Leases applications were received or granted. There was one each of the following: Petroleum Special Access Authorisation (PSAA); Petroleum Special Drilling Authorisation (PSDA); and Petroleum Access Authority (AA).

**Table 1.1 Overview of petroleum tenements current as at 30 June 2016**

|  | Petroleum Exploration Permits | Petroleum Retention Leases | Petroleum Production Licences | Other Tenements (PSAA, PSDA, AA) |
| --- | --- | --- | --- | --- |
| Onshore | 11 | 3 | 13 | 2 |
| Offshore (Vic) | 3 | 1 | 1 | 1 |

Source: DEDJTR

#### Onshore

No onshore petroleum retention licence or exploration permit applications were received or granted in 2015-16.

**Table 1.2 Overview of onshore petroleum exploration permits**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 1 | 0 | 0 | 0 | 0 |
| Granted | 0 | 2 | 2 | 0 | 0 |

Source: DEDJTR

**Table 1.3 Overview of onshore petroleum retention licences**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 0 | 0 | 0 |
| Granted | 0 | 0 | 0 | 0 | 0 |

Source: DEDJTR

#### Offshore (Victorian Waters)

No offshore petroleum exploration permits were granted and no applications were received. No applications for offshore petroleum retention and production licences were received nor were any granted.

**Table 1.4 Overview of offshore petroleum exploration permits**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 2 | 0 | 0 |
| Granted | 1 | 0 | 0 | 2 | 0 |

Source: DEDJTR

**Table 1.5 Overview of offshore petroleum retention leases**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 0 | 0 | 0 |
| Granted | 0 | 0 | 0 | 0 | 0 |

Source: DEDJTR

**Table 1.6 Overview of offshore petroleum production licences**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 1 | 0 | 0 |
| Granted | 0 | 0 | 0 | 1 | 0 |

Source: DEDJTR

#### Greenhouse gas storage

There was one application for a Greenhouse Gas Access Permit.

**Table 1.7 Overview of offshore Greenhouse Gas Assessment Permit**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 0 | 0 | 1 |
| Granted | 0 | 0 | 0 | 0 | 0 |

Source: DEDJTR

### Petroleum exploration and development

No drilling or seismic activities occurred on Onshore Petroleum tenements in Victoria.

#### Drilling

In the course of 2015-16, one offshore well was drilled.

**Table 1.8 Number of exploration wells drilled in Victoria**

| Year | Offshore (Vic) Gippsland | Offshore (Vic) Otway | Onshore Gippsland | Onshore Otway | Onshore Murray | Total wells |
| --- | --- | --- | --- | --- | --- | --- |
| 2011-12 | 0 | 0 | 1 | 1 | 0 | 2 |
| 2012-13 | 0 | 0 | 2 | 0 | 0 | 2 |
| 2013-14 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2014-15 | 0 | 0 | 0 | 0 | 0 | 0 |
| **2015-16** | **0** | **1** | **0** | **0** | **0** | **1** |
| Total | 0 | 1 | 3 | 1 | 0 | 5 |

Source: DEDJTR

**Graph 1.1 Number of exploration wells drilled**

Source: DEDJTR

#### Production

Production is currently limited to carbon dioxide production at Boggy Creek and gas injection and production at the Iona gas storage facility which are both onshore facilities located in the Otway Basin.

**Table 1.9: Otway onshore production and injection 2015-16**

| Field | Condensate (bbl\*) | Gas Production (MMscf\*\*) | CO2 Prod. (tonnes) | Gas Injection (MMscf) | Comments |
| --- | --- | --- | --- | --- | --- |
| Iona | 1,967 | 16,881 | - | 9,970 |  |
| Boggy Creek | **3.7** | **-** | **32,991** | **-** | Ex wellhead figures |

Source: DEDJTR

\*bbl = barrels \*\*MMscf = million standard cubic feet

### Geothermal energy

As at 30 June 2016, there were six current geothermal energy exploration permits. No geothermal energy retention leases or production licences were granted in 2015-16. Geothermal energy activities in Victoria remain limited to exploration.

### Geothermal energy tenements

No geothermal energy tenements in 2015-16.

**Table 1.10 Overview of geothermal exploration permits**

| Description | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 0 | 0 | 0 |
| Granted | 0 | 0 | 0 | 0 | 0 |

Source: DEDJTR

## Pipelines

In 2015-16, no new pipeline licence applications were received. However, three pipeline licences were granted (arising from applications made in 2014-15). There were a total of eight alterations to pipeline routes registered, with three classified as minor alterations and five classified as significant alterations.

**Table 1.11 Onshore pipeline licences applications received and granted**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 2 | 3 | 0 |
| Granted | 1 | 0 | 1 | 0 | 3 |

Source: DEDJTR

**Table 1.12 Offshore pipeline licences applications received and granted (Victorian waters)**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Application Received | 0 | 0 | 0 | 0 | 0 |
| Granted | 0 | 0 | 0 | 0 | 0 |

Source: DEDJTR

**Table 1.13 Pipeline licences current as at 30 June 2016**

| Tenement | Number of licences |
| --- | --- |
| Onshore | 217 |
| Offshore (Vic) | 13 |

Source: DEDJTR

**Table 1.14 Onshore pipeline licence alterations of route registered**

| Type of Alteration of Route | Number of registrations |
| --- | --- |
| Minor | 3 |
| Significant | 5 |
| Total | 8 |

Source: DEDJTR

# Minerals

## Mineral tenements

The number of exploration and mining licences held by ERR fell compared to 2014-15. The number of current retention and prospecting licences increased in comparison to 2014-15.

As in the previous year, the majority of the applications for new licences under the MRSDA were made for exploration licences.

**Table 2.1 Licences current as at 30 June**

| Tenement Type | 2012 | 2013 | 2014 | 2015 | 2016 |
| --- | --- | --- | --- | --- | --- |
| Exploration Licences | 326 | 311 | 271 | 247 | 211 |
| Mining Licences | 208 | 212 | 191 | 171 | 170 |
| Prospecting Licences | 1 | 13 | 31 | 41 | 47 |
| Retention Licences | 0 | 1 | 1 | 8 | 11 |
| Totals | 535 | 537 | 494 | 467 | 439 |
| Change year-on-year (%) | 2.9 | 0.4 | -8.0 | -5.5 | -6.0 |

Source: DEDJTR

**Graph 2.1 Licences current as at 30 June**

Source: DEDJTR

**Table 2.2 New licence applications and licence renewals in 2015-16**

|  | Received | Granted / Renewed | Withdrawn | Refused |
| --- | --- | --- | --- | --- |
| Exploration Licence Applications | 24 | 17 | 3 | 0 |
| Renewal Exploration Licence Applications | 27 | 13 | 0 | 0 |
| Sub Total Exploration Licence Applications | 51 | 30 | 3 | 0 |
| Mining Licence Applications | 3 | 2 | 1 | 0 |
| Renewal Mining Licence Applications | 18 | 10 | 0 | 0 |
| Sub Total Mining Licence Applications | 21 | 12 | 1 | 0 |
| Prospecting Licence Applications | 11 | 12 | 1 | 0 |
| Retention Licence Applications | 5 | 3 | 2 | 0 |
| Total | 88 | 57 | 7 | 0 |

Source: DEDJTR

**Table 2.3 Licences granted and renewed**

| Year | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Exploration Licences Granted | 62 | 41 | 37 | 37 | 17 |
| Exploration Licences Renewed | 74 | 52 | 57 | 19 | 13 |
| Subtotal Exploration Licences Granted and Renewed | **136** | **93** | **94** | **56** | **30** |
| Mining Licences Granted | 12 | 11 | 9 | 3 | 2 |
| Mining Licences Renewed | 21 | 14 | 28 | 14 | 10 |
| Sub Total Mining Licences Granted and Renewed | **33** | **25** | **37** | **17** | **12** |
| Prospecting Licences Granted | 1 | 12 | 18 | 13 | 12 |
| Retention Licences Granted | 0 | 0 | 1 | 7 | 3 |
| Total Licences | **170** | **130** | **150** | **93** | **57** |

Source: DEDJTR

**Graph 2.3 a) Exploration licences granted and renewed**

Source: DEDJTR

**Graph 2.3 b) Mining licences granted and renewed**

Source: DEDJTR

**Graph 2.3 c) Prospecting\* and retention licences granted**

Source: DEDJTR   
\* A prospecting licence cannot be renewed.

The total area covered by exploration licences (current and in application) on 30 June 2016 was 48,569km2. This was a reduction of 11% in comparison to the 2015 figure.

**Table 2.4 Total area covered by exploration licences (current and in application as at 30 June 2016)**

| Year | 2012 | 2013 | 2014 | 2015 | 2016 |
| --- | --- | --- | --- | --- | --- |
| Total area (km2) | 83,900 | 77,366 | 67,833\* | 54,698\* | 48,569 |

Source: DEDJTR

\*Figures for 2014 and 2015 have been revised due to calculation errors.

**Graph 2.4 a) Total area of Victoria covered by mineral exploration licences**

Source: DEDJTR

## Mineral exploration and mining expenditure

Australian Bureau of Statistics (ABS) data shows an increase of 26 per cent in Victorian exploration expenditure in 2015-16, compared to 2014-15. ERR data on mineral exploration shows that the amount spent on exploration increased from $32.3 million to $38.0 million (17% increase). MRSDA data shows that expenditure on mining has increased 10% from $622.3 million to $685.6 million.

**Table 2.5 Expenditure on mineral exploration and mining development ($A million)**

|  | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| --- | --- | --- | --- | --- | --- |
| Mineral Exploration (ABS)1 | 58.5 | 38.6 | 32.6 | 22.9 | 28.9 |
| MRSDA Exploration2 | 37.8 | 39.7 | 30.5 | 32.3 | 38.0 |
| MRSDA Mining3 | 813.8 | 701.2 | 650.3 | 622.3 | 685.6 |

Source: Figures collated from activity reports forwarded to DEDJTR required by the MRSDA, and ABS, Actual and Expected Private Mineral Exploration (Catalogue No. 8412.0)

By sector, exploration in gold mining and heavy mineral sands accounted for over two-thirds of all exploration expenditure.

**Graph 2.5 a) Expenditure on mineral exploration and mining**

Source: DEDJTR

*1 The ABS reports quarterly on private mineral exploration expenditure for all Australian states and the Northern Territory (NT). Victorian mineral exploration and mining expenditure is also reported in accordance with the requirement of the MRSDA. The ABS exploration expenditure statistics can vary significantly from expenditure reported under the MRSDA. The difference between these two exploration expenditure data sets is mainly due to the difference in methodologies for data collection, and the inclusion of the exploration expenditure on mining licences in the MRSDA figure. The ABS statistics are a valid basis for comparison of Victorian expenditure with that of other states/NT. However, the MRSDA figures provide greater detail.*

*2 Change of metric - expenditure on Exploration and Retention Licences with an Expenditure Reporting Period that ends within the Financial Year.*

*3The MRSDA mining expenditure figure covers all expenditure on mining and prospecting licences (including capital and operating expenses), less any specified exploration expenditure on mining and prospecting licences.*

**Table 2.6 Expenditure on mineral exploration and mining by commodity\***

| Sector | Exploration  ($A million) | As % of total | Mining  ($A million) | As % of total |
| --- | --- | --- | --- | --- |
| Brown Coal | 0.37 | 2.0 | 339.36 | 48.2 |
| Gold | 6.49 | 35.7 | 289.19 | 41.1 |
| Heavy Mineral Sands | 5.81 | 32.0 | 22.43 | 3.2 |
| Other\*\* | 5.49 | 30.2 | 53.20 | 7.6 |
| Total | 18.15 | 100.0 | 704.19 | 100.0 |

Source: DEDJTR

\*Notes: Expenditures are allocated to commodity according to the primary nominated mineral commodity on the licence. Brown coal includes all coal types.

\*\* “Other” includes cases where there is more than one primary mineral.

**Graph 2.6 Mineral exploration and mining expenditure by commodity (MRSDA) 2015-16**

Source: DEDJTR

## Mineral production

Brown coal production continues to be dominated by electricity generation companies in the Latrobe Valley: Hazelwood Power Corporation, AGL and Energy Australia. The Maddingley Brown Coal company produces a small amount of coal in Bacchus Marsh for fuel and soil conditioning. Alcoa Australia ceased mining coal at Anglesea in August 2015.

Brown coal production decreased by 1.2 million tonnes in 2015-16 (or 2%) compared to 2014-15.

Gold production increased from 198,387 ounces to 256,653 ounces (29.4% increase).

**Table 2.7 Mineral production over time\***

| Year | Brown Coal | Gold | Antimony | Zircon | Rutile | Ilmenite | Feldspar | Gypsum | Kaolin and fine clay |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2011-12 | 69,124 | 211,201 | 5,007 | 187,538 | 261,744 | 42,814 | 95,310 | 630,258 | 80,202 |
| 2012-13 | 59,854 | 225,776 | 4,558 | 86,243 | 140,842 | 67,067 | 61,578 | 499,681 | 204,164 |
| 2013-14 | 58,001 | 225,168 | 5,336 | 128,064 | 243,355 | 563,371 | 44,254 | 454,526 | 167,333 |
| 2014-15 | 60,957 | 198,387 | 3,684 | 77,162 | 85,983 | 383,369 | 40,232 | 335,374 | 152,047 |
| 2015-16 | 59,757 | 256,653 | 5,945 | 52,026 | 90,318 | 57,763 | 30,730 | 448,334 | 136,354 |
| Change  year-on-year (%) | -2.0 | 29.4 | 61.4 | -32.6 | 5.0 | -84.9 | -23.7 | 33.7 | -21.2 |

Source: DEDJTR, statutory returns under the MRSDA.

\*Gold reported in ounces, brown coal in thousand tonnes, gypsum in cubic meters, and the remainder in tonnes.

**Table 2.8 Mineral production sales values (A$ million)**

| Mineral | 2014-15 | 2015-16 | Change year-on-year (%) |
| --- | --- | --- | --- |
| Brown Coal\* | N/A | N/A | N/A |
| Gold | 286.9 | 411.4\*\* | 43.4 |
| Antimony | 37.8 | 30.6 | -19.0 |
| Heavy Mineral Sands (Zircon, Rutile, Ilmenite) | 185.1 | 175.9 | -5.0 |
| Industrial Minerals (Feldspar, Gypsum, Kaolin & fine clay) | 10.2 | 10.0 | -2.0 |
| Others (including silver, peat and quartz) | 0.1 | 0.6 | 500.0 |
| Total (excl. brown coal) | **520.1** | **641.2** | 18.7 |

Source: DEDJTR, statutory returns under the MRSDA.

\*No unit value is assigned to brown coal for the purposes of determining its production value. Brown coal is almost entirely used for electricity production and is largely an internal transfer within mining/generation entities. As such, there is no available market price for brown coal.

\*\*The average price of gold for 2015-16 was used multiplied by production amount.

**Graph 2.8 Gold production (ounces) by year**

Source: DEDJTR

**Table 2.9 Brown coal production (‘000 tonnes) by year**

| **Year** | **Maddingley Brown Coal Co.  Bacchus Marsh** | **Alcoa Anglesea** | **Loy Yang** | **Yallourn** | **Hazelwood** | **Annual Total** |
| --- | --- | --- | --- | --- | --- | --- |
| **2011-12** | 21 | 1,022 | 30,237 | 17,404 | 20,440 | 69,124 |
| **2012-13** | 18 | 913 | 28,921 | 12,885 | 17,118 | 59,854 |
| **2013-14** | 19 | 1,034 | 26,967 | 13,494 | 16,487 | 58,001 |
| **2014-15** | 19 | - | 27,624 | 17,171 | 16,144 | 60,957 |
| **2015-16** | 23 | - | 27,066 | 17,979 | 14,689 | 59,757 |

Source: DEDJTR, statutory returns under the MRSDA.

# Extractive industry

Extractive industries produce the raw material necessary for the construction industry, which is vital to Victoria’s development, as well as contributing to the agricultural industry via soil additives. The industry operates quarries that produce predominantly hard rock, clay, sand and gravel.

As at 30 June 2016, there were 888 current work authorities for quarries granted under the MRSDA in Victoria. The total number of quarries has remained stable over the last decade.

**Table 3.1 Status of extractive industry work authorities\* as at 30 June 2016**

| Tenement | Application\*\* | Current |
| --- | --- | --- |
| Work Authority | 31 | 888 |

Source: DEDJTR

\*A Work Authority is granted under the MRSDA.

\*\*This is when an applicant has paid a Work Authority application fee or a Work Plan fee.

**Graph 3.1 Extractive industry quarries 2011-12 to 2015-16**

Source: DEDJTR

Sales of quarry products fluctuate based on the demand from the domestic building and construction sector. The increase in demand is explained by the increase in active quarries and the initiation of major infrastructure projects.

A total of 535 quarries reported production in 2015-16 with the total sales volume being 47 million tonnes. In 2014-15, the number of producing quarries was 554[[2]](#footnote-2) with a total sales volume of 50 million tonnes.

Volume sales of extractive industry products in 2015-16 decreased by around 2.7 million tonnes or 5.4% in comparison to 2014-15. Sales value increased by $33.5 million or 4.5% as compared to 2014-15.

**T****able 3.2 Victorian extractive industries sales by rock type 2015-16**

| Product Group | Product Type | Sales Volume  (million tonnes) | Sales Value  ($Am) |
| --- | --- | --- | --- |
| Hard Rock | BASALT | 18.19 | 307.31 |
|  | GNEISS | 0.005 | 0.000 |
|  | GRANITE | 5.04 | 95.42 |
|  | HORNFELS | 3.31 | 59.30 |
|  | QUARTZITE | 0.05 | 0.66 |
|  | RHYODACITE | 1.59 | 35.83 |
|  | SCHIST | 0.21 | 3.67 |
|  | SLATE | 0.00 | 0.64 |
|  | TRACHYTE | 0.02 | 0.48 |
| Hard Rock Total |  | 28.41 | 503.30 |
| Soft Rock | CLAY & CLAY SHALE | 1.33 | 3.67 |
|  | LIMESTONE | 1.62 | 30.30 |
|  | SAND & GRAVEL | 12.51 | 207.21 |
|  | SEDIMENTARY\* | 2.55 | 26.81 |
|  | SCORIA | 0.59 | 11.01 |
|  | SOIL | 0.03 | 0.41 |
|  | TUFF | 0.25 | 2.76 |
| Soft Rock Total |  | 18.89 | 282.17 |
| Other/Aggregates |  | 0.00 | 0.00 |
| GRAND TOTAL |  | 47.30 | 785.47 |

Source: DEDJTR, statutory returns under the MRSDA.

\*Sedimentary (usually rippable rocks including sandstone, shale, siltstone, chert, mudstone, claystone).

# Revenue and bonds

## Revenue

In 2015-16, a total of $51.9 million was collected from industry in royalties, rentals, levies, fees and charges under the Acts administered by the department. This compares with $51.8 million collected in 2014-15.

**Table 4.1 Mineral, extractive and petroleum revenue 2015-16**

| Revenue Stream | Revenue ($A million) |
| --- | --- |
| Fees and charges | 0.7 |
| Rent | 2.0 |
| Royalty | 47.8 |
| Mine Stability Levy | 1.4 |
| Total | **51.9** |

Source: DEDJTR

**Graph 4.1 a) Mineral, extractive and petroleum revenue 2015-16**

Source: DEDJTR

**Table 4.2 Minerals, extractive and petroleum royalties 2015-16**

| Sector | Royalties ($A million) |
| --- | --- |
| Mining | 42.3 |
| Extractive | 5.4 |
| Petroleum | 0.1 |
| Total | **47.8** |

Source: DEDJTR

**Graph 4.2 Mineral, extractive and petroleum royalties 2015-16**

Source: DEDJTR

## Rehabilitation bonds

The sum of rehabilitation bonds held by DEDJTR in 2015-16 was $330 million, an increase of $89.5 million compared to 2014-15.

**Table 4.3 Value of rehabilitation bonds by authority type ($A million)**

| Year | Exploration Licence | Mining Licence | Prospecting Licence | Retention Licence | Extractive Industry Work Authority | Total |
| --- | --- | --- | --- | --- | --- | --- |
| 2011-12 | 2.5 | 156.9 | 0 | N/A | 80.9 | **240.3** |
| 2012-13 | 2.4 | 158.3 | 0.025 | N/A | 81.0 | **241.7** |
| 2013-14 | 2.1 | 183.4 | 0.091 | 0.010 | 90.9 | **276.5** |
| 2014-15 | 1.9 | 153.0 | 0.138 | 0.050 | 85.8 | **241.0** |
| 2015-16 | 2.0 | 239.6 | 0.2 | 0.1 | 88.6 | **330.5** |

Source: DEDJTR

**Graph 4.3 a) Value of rehabilitation bonds by authority type ($A million) 2011-12 to 2015-16**

Source: DEDJTR

**Table 4.4 Rehabilitation bond reviews over time**

| Year | Number of Bonds Reviewed | Result of Review -  Increase | Result of Review  No Change | Result of Review -  Decrease or Release |
| --- | --- | --- | --- | --- |
| 2011-12 | 216 | 19 | 193 | 4 |
| 2012-13 | 258 | 37 | 220 | 1 |
| 2013-14 | 214 | 66 | 139 | 9 |
| 2014-15 | 106 | 54 | 10 | 42 |
| 2015-16 | 100 | 48 | 6 | 46 |

Source: DEDJTR

# Monitoring, compliance and enforcement

ERR undertakes a monitoring and compliance program to ensure that authority holders are compliant with their obligations and meet community expectations. DEDJTR monitoring, compliance and enforcement activities under the MRSDA are summarised in the table below.

The Branch has made an effort to increase its monitoring and compliance activity by increasing the amount of audits, inspections, meetings and attendances at Environmental Review Committees (ERC). This has assisted ERR in better communicating with and addressing stakeholder concerns or feedback.

**Graph 5.1 Monitoring, compliance and enforcement activities 2015-16**

Source: DEDJTR

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Photo shows extractive processes for illustration only

1. Activity generally refers to production figures, expenditure amounts and tenement administration figures (no. of applications, grants renewals etc). [↑](#footnote-ref-1)
2. Figure corrected from 2014-15 Statistical Report. [↑](#footnote-ref-2)