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Published on: 27 July 2012

Statement No: 905

**STATEMENT TO AMEND CONDITIONS APPLYING TO A PROPOSAL  
(PURSUANT TO THE PROVISIONS OF SECTION 46 OF THE  
*ENVIRONMENTAL PROTECTION ACT 1986*)**

**MAGELLAN LEAD CARBONATE PROJECT, WILUNA**

**Proposal:** The proposal includes an open-cut lead carbonate mine and processing facilities 30 kilometres west of the Wiluna townsite. The lead carbonate concentrate produced at the mine-site is transported in sealed bags within locked shipping containers by road from the mine-site to Leonora and then by rail to the Port of Fremantle where it is exported.

**Proponent:** Magellan Metals Pty Ltd (ACN 075 523 661)

**Proponent Address:** 96 Welshpool Road, WELSHPOOL WA 6106

**Assessment Number:** 1868

**Previous Assessment Numbers:** 1262, 1690 and 1773

**Report of the Environmental Protection Authority:** Report 1415

**Previous Report of the Environmental Protection Authority:** Report 996, 1276 and 1314

**Previous Statement Numbers:** 559 (Published on 28 November 2000) and 783 (Published on 2 February 2009)

The implementation of the proposal to which the above reports of the Environmental Protection Authority relate is subject to the following conditions and procedures, which replace and supersede all previous conditions and procedures of Statement 559, Statement 783, and the Interim Implementation Conditions (Published on 23 February 2011):

**1 Proposal Implementation**

1-1 The proponent shall implement the proposal as documented and described in Schedule 1 of this statement subject to the conditions and procedures of this statement.

## **2 Proponent Nomination and Contact Details**

- 2-1 The proponent for the time being nominated by the Minister for Environment under section 38(6) or (7) of the Environmental Protection Act 1986 is responsible for the implementation of the proposal.
- 2-2 The proponent shall notify the Chief Executive Officer of the Office of the Environmental Protection Authority (CEO) of any change of the name and address of the proponent for the serving of notices or other correspondence within 20 business days of such change.

## **3A Time limit on Shipments through Fremantle Port**

- 3A-1 The proponent shall not ship lead carbonate through Fremantle Port beyond five years from the date of publication of this statement.

## **3 Compliance Reporting**

- 3-1 The proponent shall prepare and maintain a Compliance Assessment Plan to the satisfaction of the CEO.
- 3-2 The proponent shall assess compliance with conditions contained in this Statement in accordance with the Compliance Assessment Plan referred to in condition 3-1.
- 3-3 The proponent shall retain reports of all compliance assessments described in the Compliance Assessment Plan required by condition 3-1 and shall make those reports available when requested by the CEO.
- 3-4 The proponent shall advise the CEO of any potential non-compliance within five business days of that potential non-compliance being known to the Proponent.
- 3-5 The proponent shall submit to the CEO a compliance assessment report no later than 31 March annually addressing the previous twelve month period from 1 January to 31 December inclusive or other period as agreed by the CEO. The compliance assessment report shall:
1. be endorsed by the proponent's Managing Director or in his absence the company secretary, or other person approved by the CEO;
  2. include a statement as to whether the proponent has complied with the conditions;
  3. identify all potential non-compliances and describe corrective and preventative actions taken;
  4. be made publicly available in accordance with the approved compliance assessment plan; and

5. indicate any proposed changes to the compliance assessment plan required by condition 3-1.
- 3-6 The proponent shall ensure that the Minister for Environment and the reference group referred to in condition 17-1 is notified that the compliance assessment report required by condition 3-5 is available.

#### **4 Bagging and Shipping Container Management**

- 4-1 The proponent shall ensure that lead carbonate concentrate (other than quantities of less than 30 kilograms removed for product testing purposes) which is to be removed from the mine-site is dealt with only in accordance with the following procedures:
1. Prior to being removed from the mine-site, lead carbonate concentrate shall be:
    - a. Placed into double laminated water-proof and sieve proof bags which are sealed so as to prevent the release of lead carbonate concentrate from the bag; and
    - b. All visible dust shall be removed from the exterior of the bags immediately before they are placed in a clean shipping container which when loaded is locked, so that the only material containing lead carbonate concentrate is in sealed bags within the container when the container leaves the mine-site.
  2. The locked shipping containers shall be transported by road to a designated area in Leonora and then by rail from Leonora to Fremantle Port on the road/rail transport route identified generally in Figures 1 to 16, unless a change in route is approved by the CEO on advice of the Department of Transport and Department of Health. The locked shipping containers shall be stored in a secure manner at Leonora and at Fremantle Port prior to being loaded onto vessels for export;
  3. Unless required by a public official or public authority acting with lawful authority or the Independent Inspector pursuant to condition 16-1 (3), the shipping containers shall be kept locked and the seals on the bags shall not be broken between the time when the shipping container leaves the mine-site and the time it is removed from the State;
  4. The moisture content of the lead carbonate concentrate in the sealed bags shall be at least 7.5% at the time the shipping container leaves the mine-site;
  5. The shipping containers shall only be lifted by top-lifting equipment at all times after being loaded with sealed bags of lead carbonate concentrate and locked;

6. All bags shall be inspected by the Independent Inspector engaged under condition 16 after they are sealed and immediately before they are loaded into a shipping container and all containers shall be inspected by the Independent Inspector engaged under condition 16 before being removed from the mine site;
  7. No damaged double laminated water-proof and sieve proof bags which could compromise the containment of lead carbonate concentrate, shall be used for bagging lead carbonate concentrate;
  8. The weight of the sealed double laminated water-proof and sieve proof bags loaded with lead carbonate concentrate shall not be above 2,000 kilograms prior to loading into shipping container; and
  9. No damaged shipping containers, which could compromise the containment of lead carbonate, shall be used to transport sealed double laminated water-proof and sieve proof bags containing lead carbonate concentrate from the mine-site.
- 4-2 Prior to removing shipping containers containing lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, the proponent shall prepare and submit to the CEO, for approval and on the advice of the Department of Mines and Petroleum, an Environmental Management Program which makes provision for the following matters in a manner which is consistent with the requirements of condition 4-1 and condition 5:
1. document standards, guidelines and codes of practice relating to the management of lead carbonate concentrate;
  2. detail procedures to be applied in the mining, processing and storage areas at the mine-site to minimise disturbance of lead carbonate concentrate and to ensure that the release to the environment is minimised;
  3. detail procedures to be applied for the packaging and transport of the lead carbonate concentrate from the mine-site through to export from Fremantle Port, including the use of top-lifting equipment for the lifting of the shipping containers;
  4. detail the process which will be applied to ensure ongoing assessment of the risk of lead carbonate contamination, including environmental biological monitoring to evaluate the environmental risks and determine appropriate control measures; and
  5. detail the existing storage and ship loading facilities at Fremantle Port which are being used for lead carbonate concentrate, including:
    - a. equipment to be used;

- b. procedures and monitoring programs in place to identify potential pathways for lead carbonate concentrate to enter the environment; and
- c. where equipment, management or revised procedures are found to pose a risk to the safe storage and ship loading of the lead carbonate concentrate, additional equipment, management or revised procedures are to be identified and acquired or implemented.

4-3 The proponent shall implement the Environmental Management Program required by condition 4-2.

4-4 Revisions to the Environmental Management Program may be approved by the CEO on the advice of the Department of Mines and Petroleum.

4-5 The proponent shall implement revisions of the Environmental Management Program approved under condition 4-4.

## **5 Prevention of Discharge of Lead Carbonate**

5-1 The proponent shall ensure that no lead carbonate which is transported from the mine-site to Fremantle port is discharged from within the shipping containers and causes environmental harm as identified at monitoring sites detailed in Schedule 2.

## **6 Downstream Processing Report**

6-1 The proponent shall provide by 31 January 2013 to the CEO a report detailing options for downstream processing of lead carbonate concentrate. The report shall:

1. detail and benchmark the available options against best environmental practice;
2. detail all point and fugitive emission sources from a selected technology;
3. identify applicable emission limits for point and fugitive emissions sources identified in condition 6-1(2); and
4. provide potential locations for the downstream processing plant.

6-2 The proponent shall ensure that the report required by condition 6-1 is peer reviewed by an independent expert acceptable to the CEO prior to it being provided to the CEO.

## **7 Shipping Container Cleanliness**

7-1 Shipping containers shall be free of all visible mud containing lead carbonate prior to being removed from the mine-site and prior to being loaded onto the train at Leonora.

## 8 Sampling Program

8-1 The proponent shall conduct a Sampling Program to determine total lead in air, dust, soil and sediment. The description of the sampling, the location and frequency of sampling, the sampling method and reporting units are to be done in accordance with the table below:

| Description              | Locations of sampling (as shown in Figures 2 to 16)   | Frequency of sampling   | Units of reporting       | Sampling Method   |
|--------------------------|---|---|--------------------------|---|
| Rainwater tank sampling  | WATTRS01 – WATTRS19   | Six-monthly, during January/February and July/August  | mg/L                     | A/NZS 5667.1:1998 (or its updates)  |
| Static dust sampling     | SDMTRS01 - SDMTRS07, SDMTRS20 and SDMTRS21  | Monthly   | mg/m <sup>2</sup> /month | AS/NZS 3580.10.1:2003 (or its updates)  |
| Static dust sampling     | SDMTRS08 - SDMTRS19   | Six-monthly, during March/April and September/October   | mg/m <sup>2</sup> /month | AS/NZS 3580.10.1:2003 (or its updates)  |
| High volume air sampling | Passenger Terminal and Berth 12   | One continuous 24 hour period every six days, plus one extra continuous 24 hours period within the six days during unloading or loading of Magellan shipping containers | µg/m <sup>3</sup>        | AS/NZS 3580.1.1:2007 (or its updates)<br><br>AS/NZS 3580.9.3:2003 (or its updates)  |
| Soil sampling            | DMTRS01 – DMTRS251  | Annually, during July/August  | mg/kg                    | AS4874-2000 (or its updates)  |
| Drainage sump sampling   | SUMPTRS01, SUMPTRS02, SUMPTRS03(A), SUMPTRS03(B), SUMPTRS04(A), SUMPTRS04(B), SUMPTRS05 - SUMPTRS13 | Six-monthly, during March/April and September/October   | mg/kg                    | If sufficient material is available, three samples will be taken from the top 20 mm of sediment and then combined into a composite sample for analysis. |

| Description               | Locations of sampling (as shown in Figures 2 to 16) | Frequency of sampling                                | Units of reporting | Sampling Method   |
|---------------------------|---|--|--------------------|---|
| Benthic sediment sampling | P1-P12, DP1 – DP7 and CO2                           | Six-monthly, during January/February and July/August | mg/kg (dry weight) | Manual of Standard Operating Procedures for Environmental Monitoring against the Cockburn Sound<br><br>Environmental Quality Criteria (2003 – 2004)<br>Environmental Protection Authority<br>Report 20, January 2005 (or its updates) |

8-2 The proponent shall ensure that samples taken in accordance with condition 8-1 are analysed by a NATA accredited analytical laboratory for each specific analyte.

8-3 The CEO may approve the ceasing of the Sampling Program, or parts thereof, referred to in condition 8-1 in the event that the transportation of lead carbonate concentrate ceases.

8-4 The CEO may approve changes to the Sampling Program, or parts thereof, referred to in condition 8-1 in response to the results of monitoring over a given time period, as approved by the CEO.

## 9 Sampling Analysis and Reporting Timing Obligations

9-1 The proponent shall ensure that all monitoring samples collected pursuant to condition 8 are dispatched to a NATA accredited analytical laboratory in accordance with condition 8-2 within the timeframe specified below:

1. no later than the next business day following collection for samples collected within the Perth Metropolitan Region; and
2. no later than five business days of being collected for samples collected outside of the Perth Metropolitan Region.

9-2 Where analysis of a sample undertaken in accordance with condition 8 indicates a result above the lead baseline trigger level for the relevant site (as detailed in Schedule 2), the proponent shall ensure the relevant sample is dispatched to a NATA accredited laboratory to be isotopically tested no later than the next business day after the proponent receives the certificate

of analysis confirming that the relevant sample result is above the lead baseline trigger level for the sample site, detailed in Schedule 2.

- 9-3 The Managing Director of the proponent, or in his absence the company secretary, or other person approved by the CEO, shall ensure that a copy of the certificates of analysis of all monitoring results which are above the lead baseline trigger level for a site are reported to the Office of the Environmental Protection Authority, Department of Environment and Conservation, Department of Health, Department of Mines and Petroleum, Department of Transport, Fremantle Port Authority and the relevant local authority, no later than the next business day following receipt of the results by the proponent.
- 9-4 The Managing Director of the proponent, or in his absence the company secretary, or other person approved by the CEO, shall ensure that a copy of the certificates of analysis for isotopic testing showing that the lead is not Magellan lead is provided to the Office of the Environmental Protection Authority, Department of Environment and Conservation, Department of Health, Department of Mines and Petroleum, Department of Transport, Fremantle Port Authority and the relevant local authority, no later than the next business day following receipt by the proponent.
- 9-5 Where isotopic testing confirms that monitoring results for a site are above the lead baseline trigger levels and show the presence of Magellan lead the Managing Director of the proponent, or a member of the board authorised by the board to do so, shall ensure that a copy of the certificates of analysis for isotopic testing is provided to the Office of the Environmental Protection Authority, Department of Environment and Conservation, Department of Health, Department of Mines and Petroleum, Department of Transport, Fremantle Port Authority and the relevant local authority, no later than the next business day following receipt by the proponent.
- 9-6 The proponent shall provide the Office of the Environmental Protection Authority with a report, in a format approved by the CEO, within the first five business days following the end of every quarter from recommencement of operations, which includes:
1. details of all monitoring samples collected in the preceding three months;
  2. a record of dates when ship loading of Magellan lead has occurred and the number of containers loaded;
  3. copies of certificates of analysis and chains of custody for all monitoring results received in the preceding three months; and
  4. a comparison of all results against the lead baseline trigger levels detailed in Schedule 2 for the preceding three months.



- 9-7 The proponent shall ensure that a summary of the results obtained from the sampling program detailed in condition 8-1 and isotopic testing detailed in condition 9-2 are made publicly available within five business days of receipt of the results or as required by the CEO.
- 9-8 The proponent shall report all results of the Sampling Program as required by condition 8-1 to the reference group referred to in condition 17-1 at least once every calendar year.
- 9-9 The proponent shall revise the lead baseline trigger levels at any of the sites, outlined in Schedule 2, on the advice of the CEO where monitoring results show that the lead baseline trigger level has been exceeded and isotopic testing of the site samples demonstrate that Magellan lead is not present at the sample site. The latest monitoring result may become the new lead baseline trigger level for these sites providing that the new lead baseline trigger level does not exceed the lead baseline trigger level defined in point b in condition 20 for the particular sampling type (that is, benthic sediment sampling, soil sampling etc).
- 9-10 The CEO may approve changes to the sampling analysis and reporting timelines, referred to in condition 9 in response to the results of monitoring over a given time period, as approved by the CEO.

## **10 Monitoring Triggers, Contingency Measures and Ceasing Transport**

- 10-1 The proponent shall report against the lead baseline trigger levels outlined in Schedule 2 (or any revised lead baseline trigger level approved in accordance with condition 9-9) and where monitoring shows that the results are above the lead baseline trigger level the proponent shall carry out isotopic testing required by condition 9-2.
- 10-2 The proponent shall immediately cease transport of any further lead carbonate concentrate if the results of the isotopic testing undertaken in accordance with condition 9-2 show the presence of Magellan lead at a sample site.
- 10-3 Where isotopic testing shows that the result of monitoring samples above the lead baseline trigger level for a sample show the presence of Magellan lead, the proponent shall design an investigation in consultation with the Department of Mines and Petroleum and the Department of Environment and Conservation, on the advice of the Department of Health to determine the source and extent of the lead and initiate a review of the packing and transport procedures.
- 10-4 If the proponent ceases transport of lead carbonate concentrate in accordance with condition 10-2, it may only recommence transport in accordance with a Re-commencement Plan approved by the CEO.
- 10-5 The Re-commencement Plan, to be prepared by the proponent, must include the following:

1. the reasons for the ceasing of transport;
2. the source of, and the extent of, the Magellan lead detected;
3. the results of a review of packaging and transport procedures;
4. the plans of any clean-up required pursuant to condition 11-1 or results thereof if completed; and
5. management and monitoring measures for the re-commencement of transport.

## **11 Emergency Response Plan**

- 11-1 In the event that lead carbonate concentrate is discharged into the environment at any point between the mine-site and the shipping containers being removed from the State, the proponent shall implement the Emergency Response Plan (Strategen, June 2009) approved on 13 August 2009.
- 11-2 Revisions to the Emergency Response Plan may be approved by the CEO, on advice of the Fire and Emergency Service Authority, the Port Authority and relevant Local Governments.
- 11-3 The proponent shall implement revisions of the Emergency Response Plan approved pursuant to condition 11-1.

## **12 Quality Control for Sampling and Analysis**

- 12-1 Prior to removing shipping containers containing lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, the proponent shall engage a third party expert approved by the CEO to carry out an evaluation of the sampling methodology and analysis methodology for all sample types required by condition 8.
- 12-2 The proponent shall demonstrate that the recommendations listed in the sampling and analysis evaluation required by condition 12-1 have been implemented or reasons provided why the recommendations cannot be implemented to the CEO prior to removing shipping containers containing lead carbonate concentrate from the mine-site at any time from the date of publication.

## **13 Ongoing Audits of the Environmental Management Program**

- 13-1 The proponent shall appoint an independent third party approved by the CEO to undertake a compliance/assurance audit in accordance with an audit scope approved by the CEO, and provide a report on, the implementation of, or parts thereof, the Environmental Management Program as required by

condition 4-2 and recommend changes to practices, processes and infrastructure.

13-2 The proponent shall demonstrate that the recommendations listed in the compliance/assurance audit required by condition 13-1 have been implemented or reasons provided why the recommendations cannot be implemented to the CEO within six months of the date of the compliance/assurance audit.

13-3 The proponent shall ensure that the audits will be undertaken at three monthly intervals and the reports provided to the CEO within 20 business days of the end of the three monthly periods, with the first report to be submitted within four months from the recommencement of operations, unless otherwise approved by the CEO.

#### **14 Ongoing Audits of the Sampling Program**

14-1 The proponent shall appoint an independent third party approved by the CEO to undertake a compliance/assurance audit in accordance with an audit scope approved by the CEO, and provide a report on, the implementation of the Sampling Program as required by condition 8, the sampling analysis and reporting timing obligations as required by condition 9 and the monitoring triggers, contingency measures and the ceasing of transport required by condition 10 and recommend any changes.

14-2 The proponent shall demonstrate that the recommendations listed in the compliance/assurance audit required by condition 14-1 have been implemented or reasons provided why the recommendations cannot be implemented to the CEO within six months of the date of the compliance/assurance audit.

14-3 The proponent shall ensure that the audits will be undertaken at three monthly intervals and the reports provided to the CEO within 20 business days of the end of the three monthly periods, with the first report to be submitted within four months from the recommencement of removing shipping containers containing lead carbonate concentrate from the mine-site, unless otherwise approved by the CEO.

#### **15 Audit Reports to be Made Publicly Available**

15-1 The proponent shall ensure that all reports received from the independent third parties engaged under conditions 13 and 14 are made publicly available on the proponent's website within 30 business days of the end of the three monthly period.

#### **16 Independent Inspector**

16-1 Prior to removing shipping containers containing lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, the proponent is to engage the services of, and provide necessary funding

for, an independent inspector, to be approved by the CEO. The inspector is to be engaged and funded to undertake the following in an independent manner:

1. Visually inspect all bags of lead carbonate concentrate, after they are sealed, immediately prior to loading into shipping containers, for the presence of material containing lead carbonate outside the sealed bags. Where material containing lead carbonate is visible on the bag, it shall be revacuumed and rechecked prior to being loaded into the shipping container;
2. Visually inspect all shipping containers, after they are loaded and locked and immediately prior to their removal from the mine-site, for material containing lead carbonate on the outside of the shipping containers;
3. Carry out random dust monitoring inside shipping containers, by:
  1. randomly selecting at least 1% of containers averaged over a quarter of a calendar year, without the knowledge of the proponent;
  2. placing dust monitors inside the selected containers prior to their removal from the mine-site; and
  3. removing the dust monitors at the Port of Fremantle, and making available the samples obtained for analysis to test for the presence of lead carbonate dust.
4. Carry out quality assurance procedures as per the recommendations in the *'Review of Analytical Procedures Used and Data Produced by SGS Australia Pty Ltd for the Magellan Metals Pty Ltd 'Lead in Shipping Container Monitoring'* (Laboratory Quality Management Services, 2011) for all random dust monitoring inside shipping containers; and
5. Recording observations of:
  1. any visible lead carbonate mud on the outside of containers pursuant to condition 16-1(2); and
  2. any visible lead carbonate concentrate inside the shipping container and outside of the bags in those containers opened at Fremantle ports pursuant to condition 16-1(3);

and report immediately to the proponent.

- 16-2 Prior to removing shipping containers of lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, the proponent shall establish and document the detailed roles and responsibilities of the inspector engaged under condition 16, to the

satisfaction of the CEO, in consultation with the Department of Environment and Conservation and the Department of Mines and Petroleum.

## **17 Reporting of Inspections and Monitoring**

- 17-1 The proponent shall ensure that all reports received from the Independent Inspector engaged under condition 16-1 are provided no later than the next business day to the CEO and to an appropriate reference group with relevant community representation, as determined by the Minister for Environment, and made publicly available on the proponent's website within five business days. Until otherwise determined by the Minister, the reference group shall be the Fremantle Ports Inner Harbour Community Liaison Group, established by the Fremantle Port Authority.

## **18 Financial Assurance**

- 18-1 As security for the due and punctual observance and performance by the proponent of the requirements of condition 11-1, the proponent shall, prior to removing shipping containers of lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, provide to the CEO, to be replaced every five years in accordance with condition 18-2, a financial assurance for the benefit of both the Minister and the CEO and which is in the form of an unconditional and irrevocable bank guarantee, from a guarantor acceptable to the CEO and in a form acceptable to the CEO, in the amount specified in condition 18-2.
- 18-2 The financial assurance shall be for an initial amount of AU\$5 million and shall be substituted every five years after the provision of the first guarantee with the fixed initial amount of each successive guarantee being indexed to inflation (being the Consumer Price Index, Perth).
- 18-3 In the event that the guarantor referred to in condition 18-1 terminates its liability under the bank guarantee by paying to the Minister or the CEO the balance of the financial assurance remaining unpaid, the CEO will hold the financial assurance (being the amount paid by the guarantor upon termination), as security for the due and punctual observance and performance by the proponent of the requirements of condition 11-1, in an interest bearing account nominated by the CEO, with the interest accruing for the benefit of the Minister or the CEO.
- 18-4 The financial assurance may be called on or used in accordance with section 86E of the *Environmental Protection Act 1986* if the proponent fails to implement the proposal in accordance with condition 11-1.
- 18-5 The financial assurance shall be discharged by the CEO and the Minister when the CEO has given the proponent written notice pursuant to section 86F(1) of the *Environmental Protection Act 1986*.

## 19 Environmental Risk Assessment

19-1 Prior to removing shipping containers containing lead carbonate concentrate from the mine-site at any time from the date of publication of this Statement, and then annually thereafter, the proponent shall carry out a risk assessment following methodology detailed in AS/NZS 4360:2004, of all key aspects of the project regarding the potential pathways for lead carbonate contamination including:

1. mining and processing;
2. storage;
3. bagging and loading;
4. transport; and
5. port operations

and report on the findings to the CEO.

## 20 Definitions

In this statement, unless the contrary intention appears:

“AS/NZS 5667.1:1998” means *Australian/New Zealand Standard AS/NZS 5667.1:1998 Water quality—Sampling Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.*

“AS/NZS 3580.10.1:2003” means *Australian/New Zealand Standard AS/NZS 3580.10.1:2003 Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposition matter – Gravimetric method.*

“AS/NZS 3580.9.3:2003” means *Australian/New Zealand Standard AS/NZS 3580.9.3:2003 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – Total suspended particulate matter (TSP) – High-volume sampler gravimetric method.*

“AS/NZS 4360:2004” means *Australian/New Zealand Standard AS/NZS 4360:2004 Risk management.*

“AS 3580.1.1 – 2007” means *Australian Standard AS 3580.1.1 – 2007 Methods for sampling and analysis of ambient air Part 1.1: Guide to siting air monitoring equipment.*

AS/NZS 3580.1.1:2007 means *Australian/New Zealand Standard AS/NZS 3580.1.1:2007 Methods for sampling and analysis of ambient air - Guide to siting air monitoring equipment.*

“AS4874-2000” means *Australian Standard AS 4874 - 2000 Guide to investigation of potentially contaminated soil.*

“baseline trigger levels” means as described in the following table:

| Type of sampling                | Baseline Trigger Level (Total Lead)   |
|---------------------------------|---|
| Benthic Sediment Sampling       | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO; or<br>b. 50 mg/kg (dry weight), whichever is lower.    |
| Drainage Sump Sampling          | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO; or<br>b. 1500 mg/kg (dry weight), whichever is lower   |
| Soil Sampling                   | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO; or<br>b. 1,500 mg/kg (dry weight), whichever is lower. |
| Rainwater Tank Sampling         | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO; or<br>b. 0.01 mg/L, whichever is lower.                |
| High Volume Air Sampling        | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO; or<br>b. 0.5 µg/m <sup>3</sup> whichever is lower.     |
| Static Dust Sampling            | a. As described in ‘Lead Baseline Trigger Level’ in Schedule 2; or any revision approved by the Minister for Environment on advice of the CEO.  |
| Shipping Container air sampling | 20 µg/m <sup>3</sup>  |

“business day” means a day that is not a Saturday, a Sunday or a public holiday in Western Australia.

“Immediately” means at once; instantly.

ISO14001 means the International Organization for Standardization – *ISO14001:2004 Environmental Management Systems -- Requirements with guidance for use* or its updates.

“Magellan lead” means lead that originates from the mine-site.

“mg/kg” means milligrams per kilogram.

“mg/L” means milligrams per litre.

“mg/m<sup>2</sup>/month” means milligrams per square metre per month.

“mine-site” means the boundaries of mining tenement numbers M53/502, M53/503 and M53/504.

NATA means the National Association of Testing Authorities, Australia.

“Perth Metropolitan Region” means the area defined by the Perth Metropolitan Region Scheme map (Western Australian Planning Commission), as amended from time to time.

“µg/m<sup>3</sup>” means micrograms per cubic metre for normal conditions of 0 degrees and 21kpa.

## Notes

1. Where a condition states “on advice of the Office of the Environmental Protection Authority”, the Office of the Environmental Protection Authority will provide that advice to the proponent.
2. The Office of the Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.
3. The Minister for Environment will determine any dispute between the proponent and the Office of the Environmental Protection Authority over the fulfilment of the requirements of the conditions.
4. The proponent is required to conduct the project subject to requirements of a Works Approval and Licence for this project under the provisions of Part V of the *Environmental Protection Act 1986*.

[Signed 26 July 2012]

**HON BILL MARMION MLA  
MINISTER FOR ENVIRONMENT; WATER**



**The Proposal (Assessment No. 1262, 1690 and 1773)**

The development of an open-cut mine, waste rock dump, tailings storage facilities, associated infrastructure, and processing facilities approximately 30 kilometres west of Wiluna.

Lead carbonate concentrate produced at the mine will be contained in sealed bulk bags with a double-laminated wall within locked steel shipping containers and transported by road to Leonora and then by rail to the Port of Fremantle, where it will be exported.

A gas-fired power station and accommodation camp are constructed to service the mine-site.

The mining operations are being supplied with water from a borefield south-east of the mine.

The proposal location is shown in Figure 1, the sampling sites are shown in Figures 2 to 16 and the general arrangement of the mine and process facilities are shown in Figures 17 and 18.

The key proposal characteristics are presented in Table 1.

**Table 1: Key Proposal Characteristics Table**

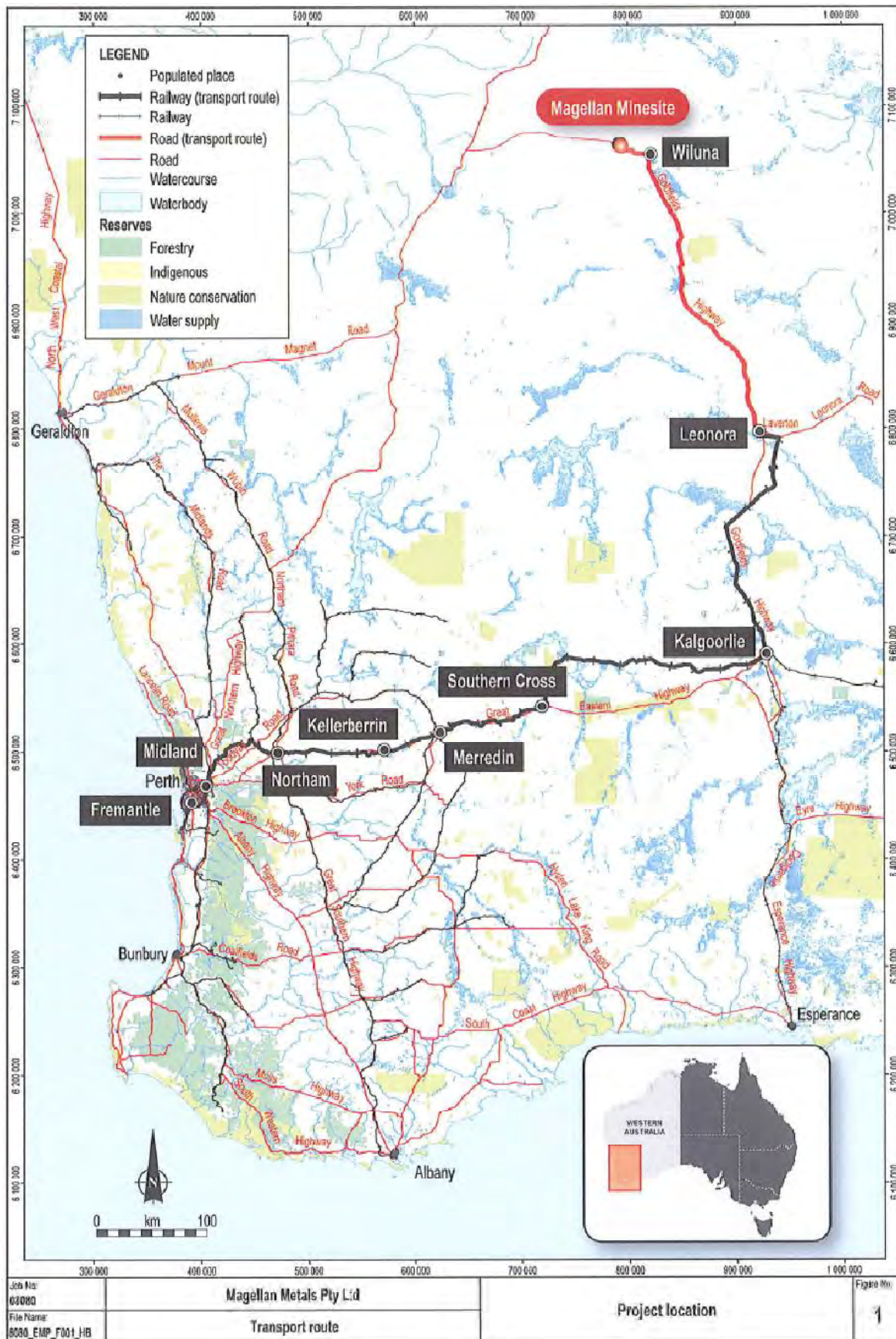
| <b>Project Characteristic</b>   | <b>Quantities/Description</b>   |
|---|---|
| Life of the project (mine production)   | Up to 10 years  |
| Size of ore body  | Not more than 8.2 million tonnes  |
| Depth of mine pit   | Not more than 50 metres   |
| Area of disturbance (including access)  | Not more than 320 hectares  |
| Major components:<br><ul style="list-style-type: none"> <li>• Open pit</li> <li>• Waste dumps</li> <li>• Infrastructure (plant site water supply, roads, accommodation camp, etc)</li> <li>• Tailings storage facilities</li> </ul> <b>TOTAL AREA</b> | 55 hectares<br>138 hectares<br>57 hectares<br>70 hectares<br>320 hectares |
| Tailings storage facility (2 cells)   | Combined total capacity of 4 million tonnes                               |
| Ore mining rate   | 1 million tonnes per year (maximum)                                       |
| Solid waste materials   | 2.4 million tonnes per year (maximum)                                     |

**Table 1: Key Proposal Characteristics Table (cont'd)**

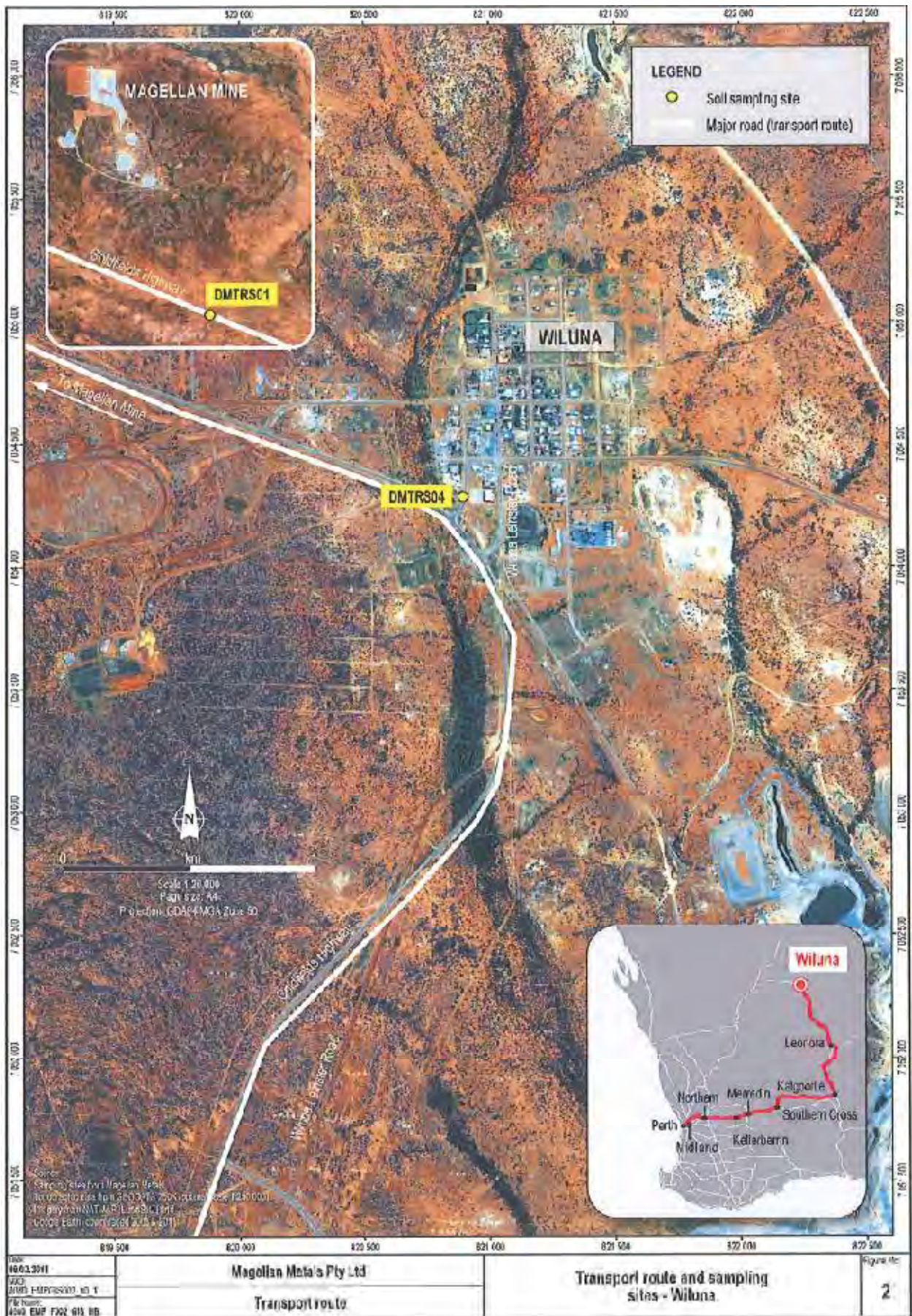
| <b>Project Characteristic</b>   | <b>Quantities/Description</b>  |
|---|--|
| Water supply:<br>• Source<br>• Maximum hourly requirement<br>• Maximum annual requirement | Calcrete and chert aquifers southeast of the mine-site<br>170 kilolitres per hour<br>1.5 million kilolitres per annum          |
| Lead concentrate transport  | Road to Leonora and then rail to the Port of Fremantle in sealed bulk bags within locked steel shipping containers (Figure 1). |
| Power generation  | Natural gas – up to 139 terajoules per annum   |
| Fuel storage:<br>• Capacity<br>• Quantity used  | 50 kilolitres of storage<br>1.8 million litres per year (approximately)  |

**Figures (attached)**

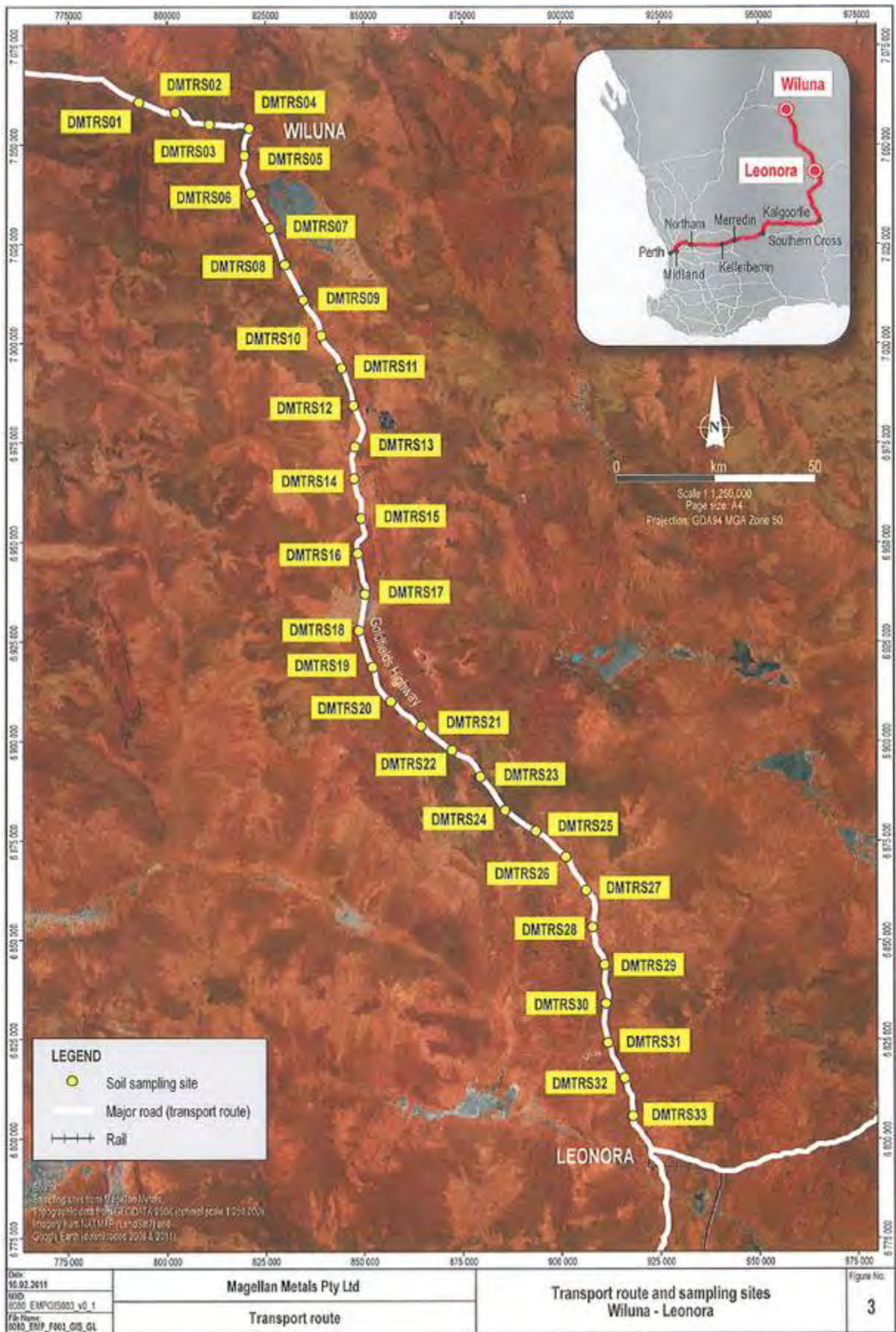
- Figure 1 Location of the Magellan Lead Carbonate Project, including transport route (specific details of the transport route are indentified in Figures 2 to 16)
- Figure 2 Transport route and sampling sites – Mine-site to Wiluna
- Figure 3 Transport route and sampling sites – Wiluna to Leonora
- Figure 4 Transport route and sampling sites – Leonora
- Figure 5 Transport route and sampling sites – Leonora to Kalgoorlie
- Figure 6 Transport route and sampling sites – Kalgoorlie
- Figure 7 Transport route and sampling sites – Kalgoorlie to Southern Cross
- Figure 8 Transport route and sampling sites – Southern Cross
- Figure 9 Transport route and sampling sites – Southern Cross to Kellerberrin
- Figure 10 Transport route and sampling sites – Merredin
- Figure 11 Transport route and sampling sites – Kellerberrin to Midland
- Figure 12 Transport route and sampling sites – Kellerberrin
- Figure 13 Transport route and sampling sites – Northam
- Figure 14 Transport route and sampling sites – Midland
- Figure 15 Transport route and sampling sites – Midland to Fremantle
- Figure 16 Transport route and sampling sites – Fremantle
- Figure 17 General arrangement of the Magellan Lead Carbonate Project
- Figure 18 Magellan Lead Carbonate Project plant layout



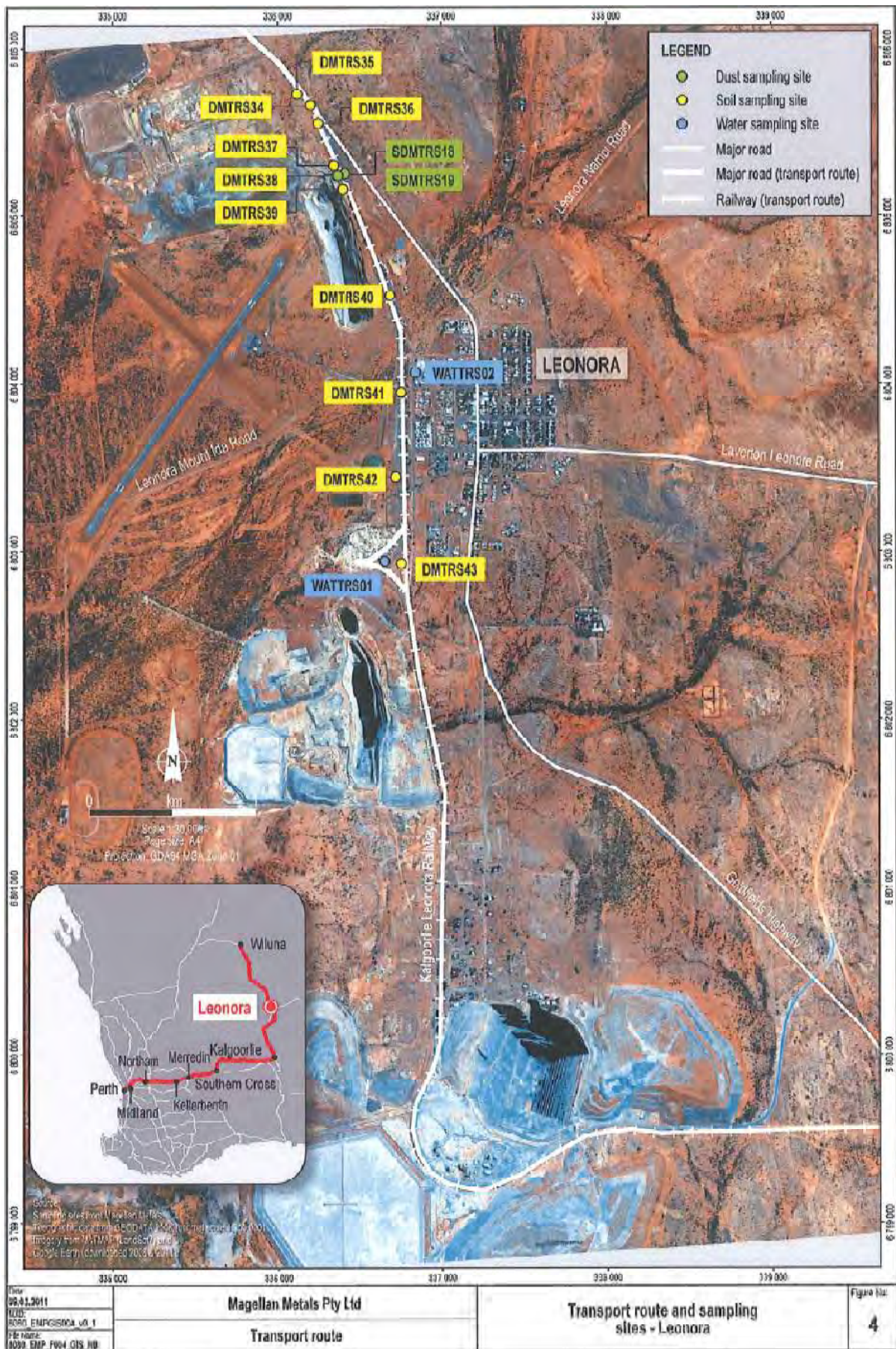
**Figure 1** Location of the Magellan Lead Carbonate Project, including the transport route (specific details of the transport route are identified in Figures 2-16)



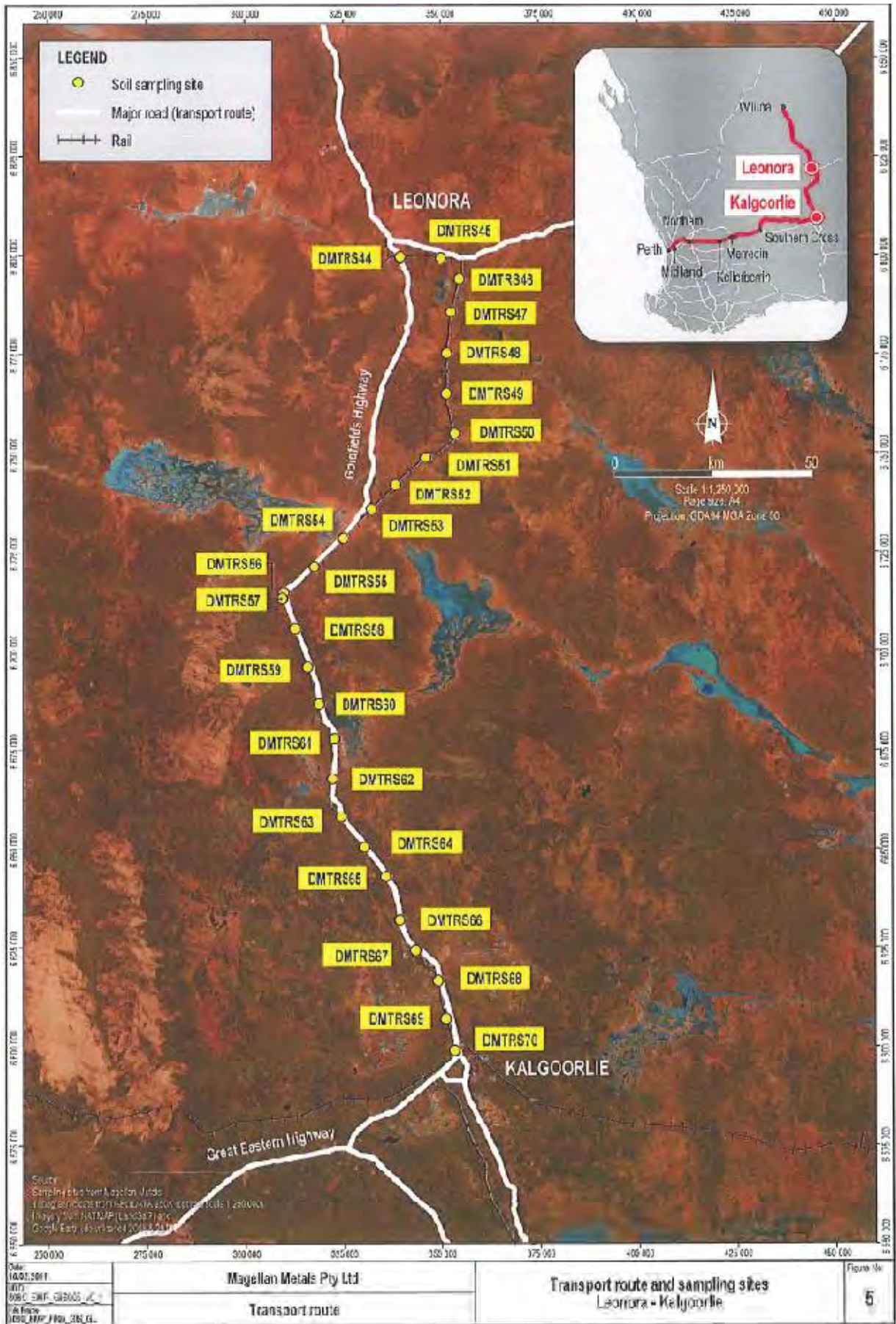
**Figure 2** Transport route and sampling sites – Mine-site to Wiluna



**Figure 3 Transport route and sampling sites – Wiluna to Leonora**



**Figure 4 Transport route and sampling sites – Leonora**

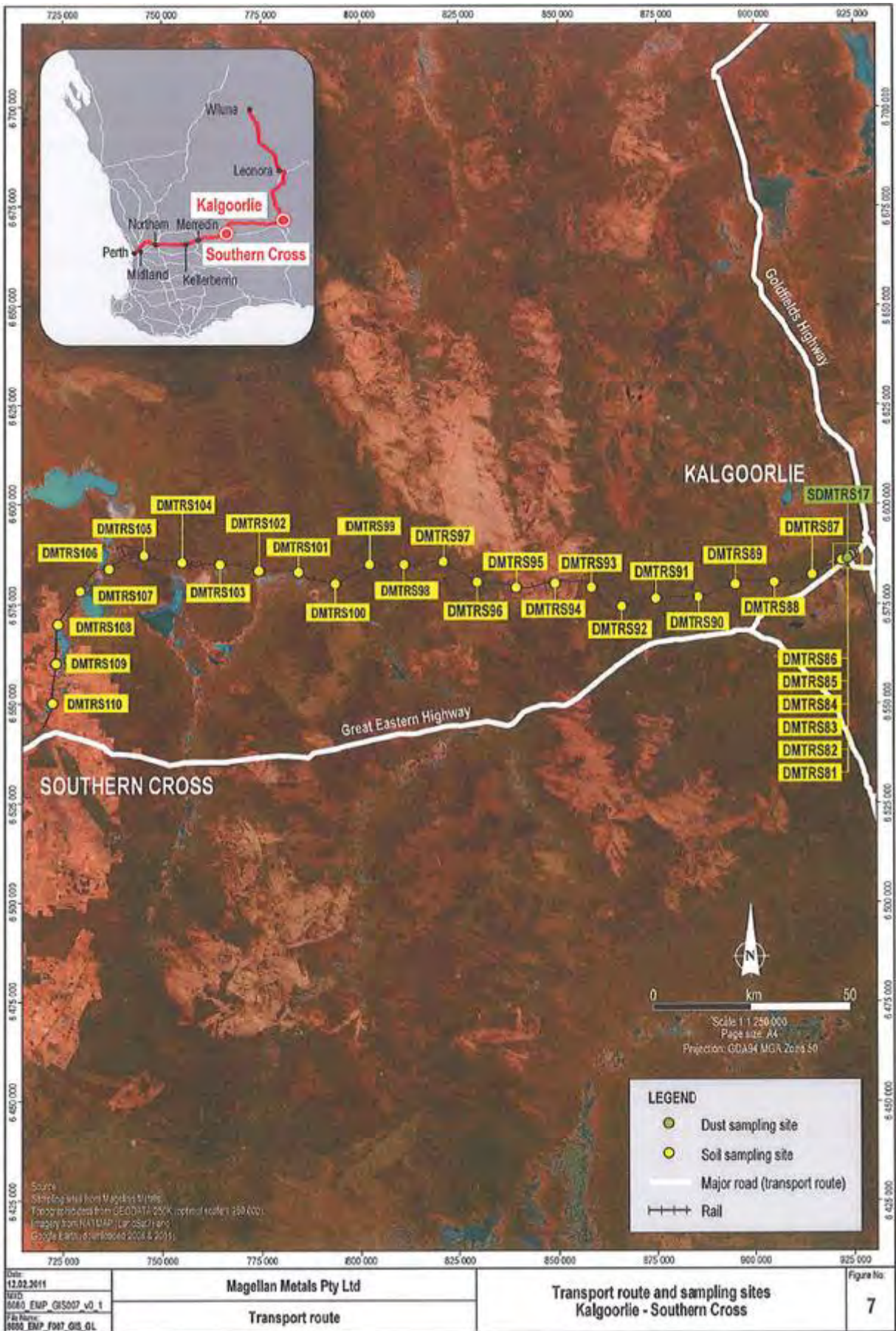


**Figure 5** Transport route and sampling sites – Leonora to Kalgoorlie



**Figure 6** Transport route and sampling sites – Kalgoorlie





**Figure 7** Transport route and sampling sites – Kalgoorlie to Southern Cross



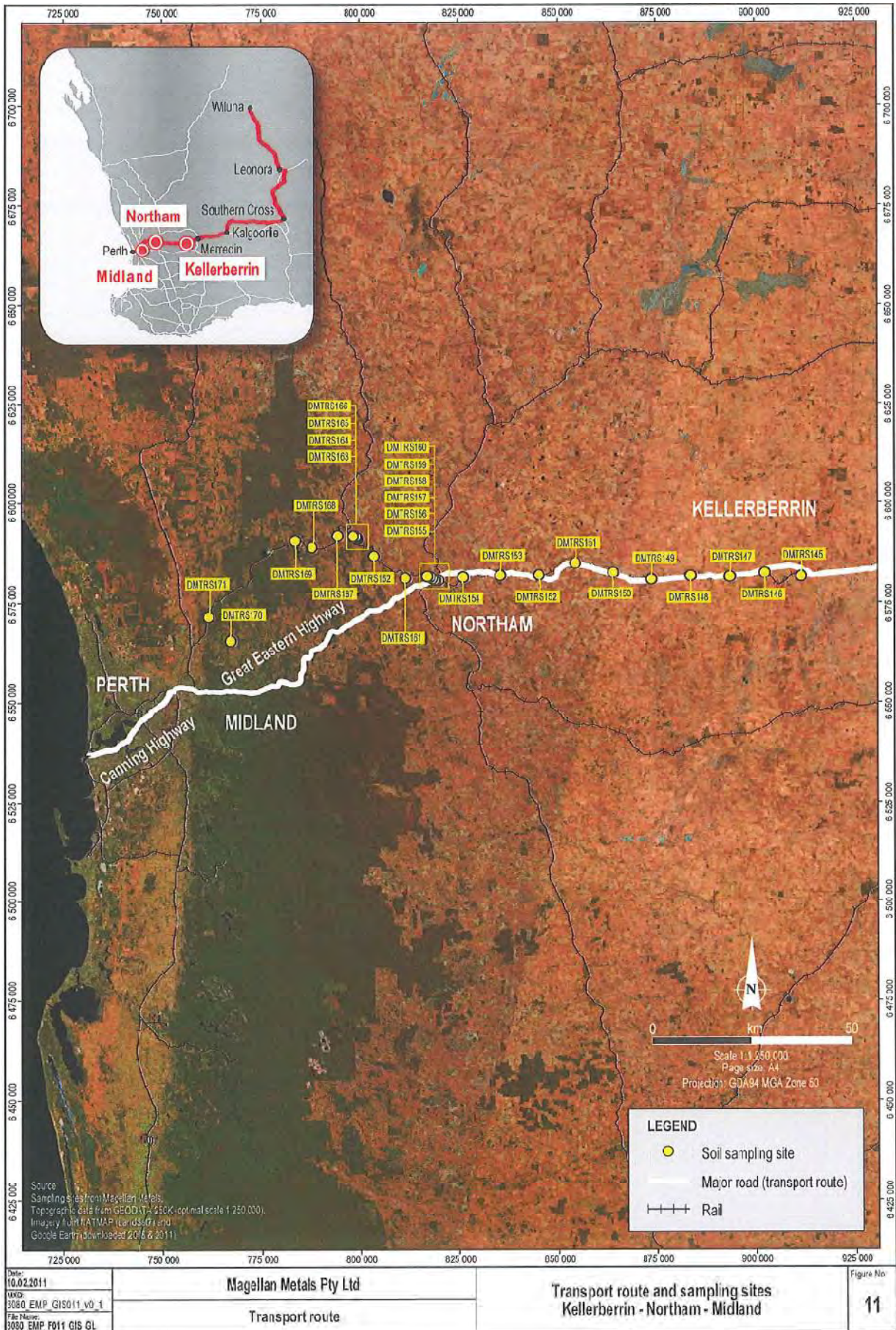
**Figure 8** Transport route and sampling sites – Southern Cross



**Figure 9** Transport route and sampling sites – Southern Cross to Kellerberrin



**Figure 10 Transport route and sampling sites – Merredin**



**Figure 11 Transport route and sampling sites – Kellerberrin to Midland**



**Figure 12 Transport route and sampling sites – Kellerberrin**

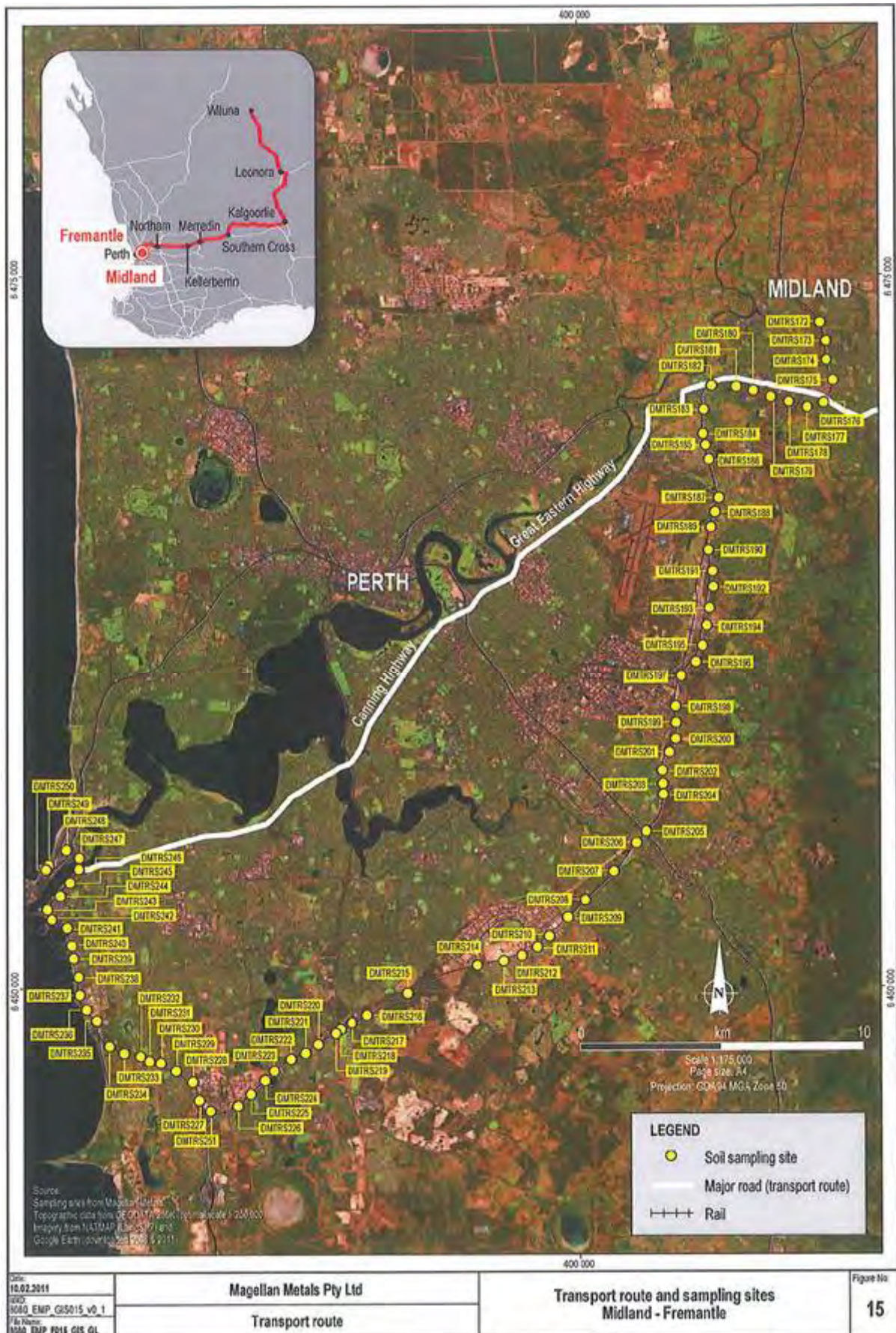


**Figure 13 Transport route and sampling sites – Northam**

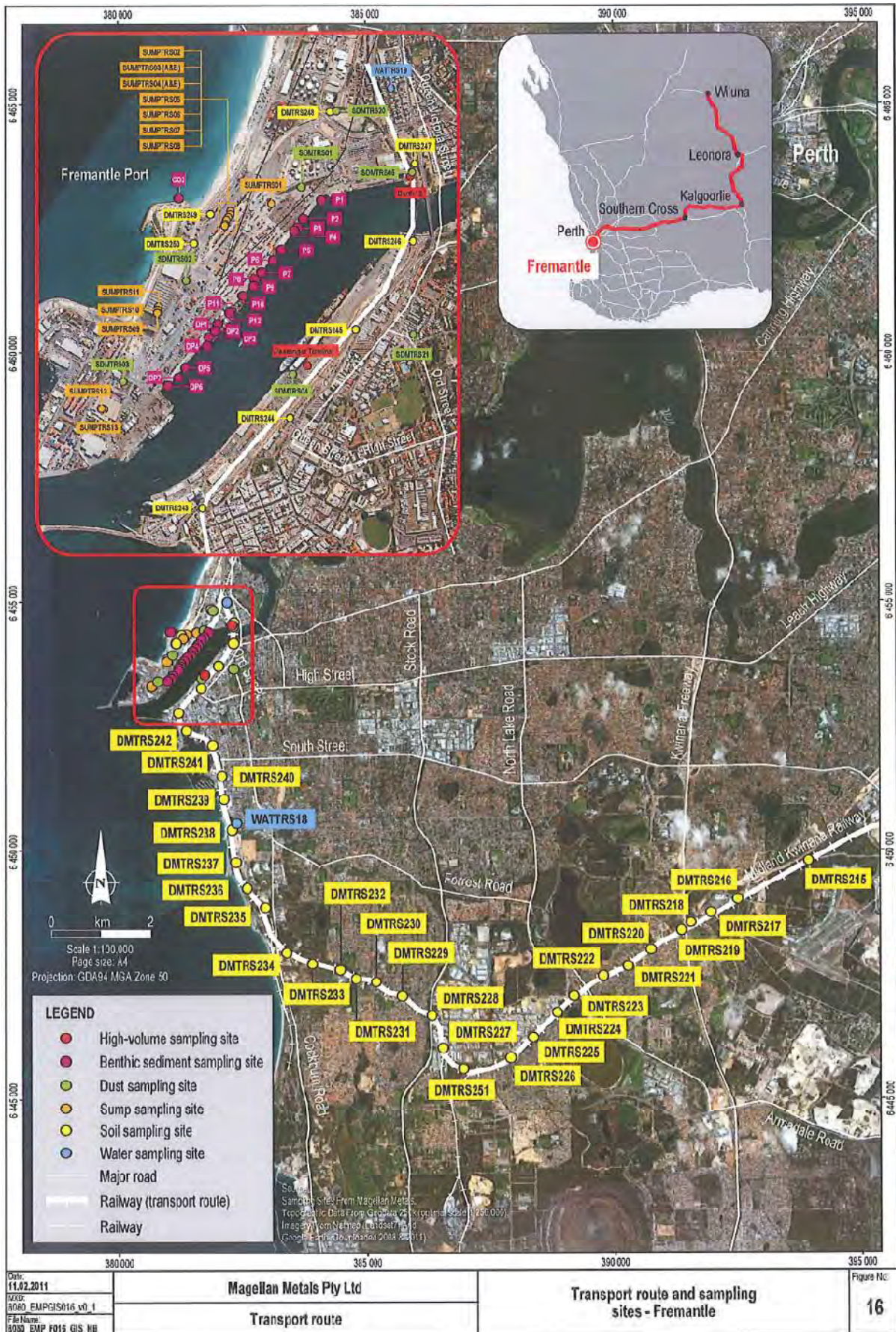


**Figure 14 Transport route and sampling sites – Midland**

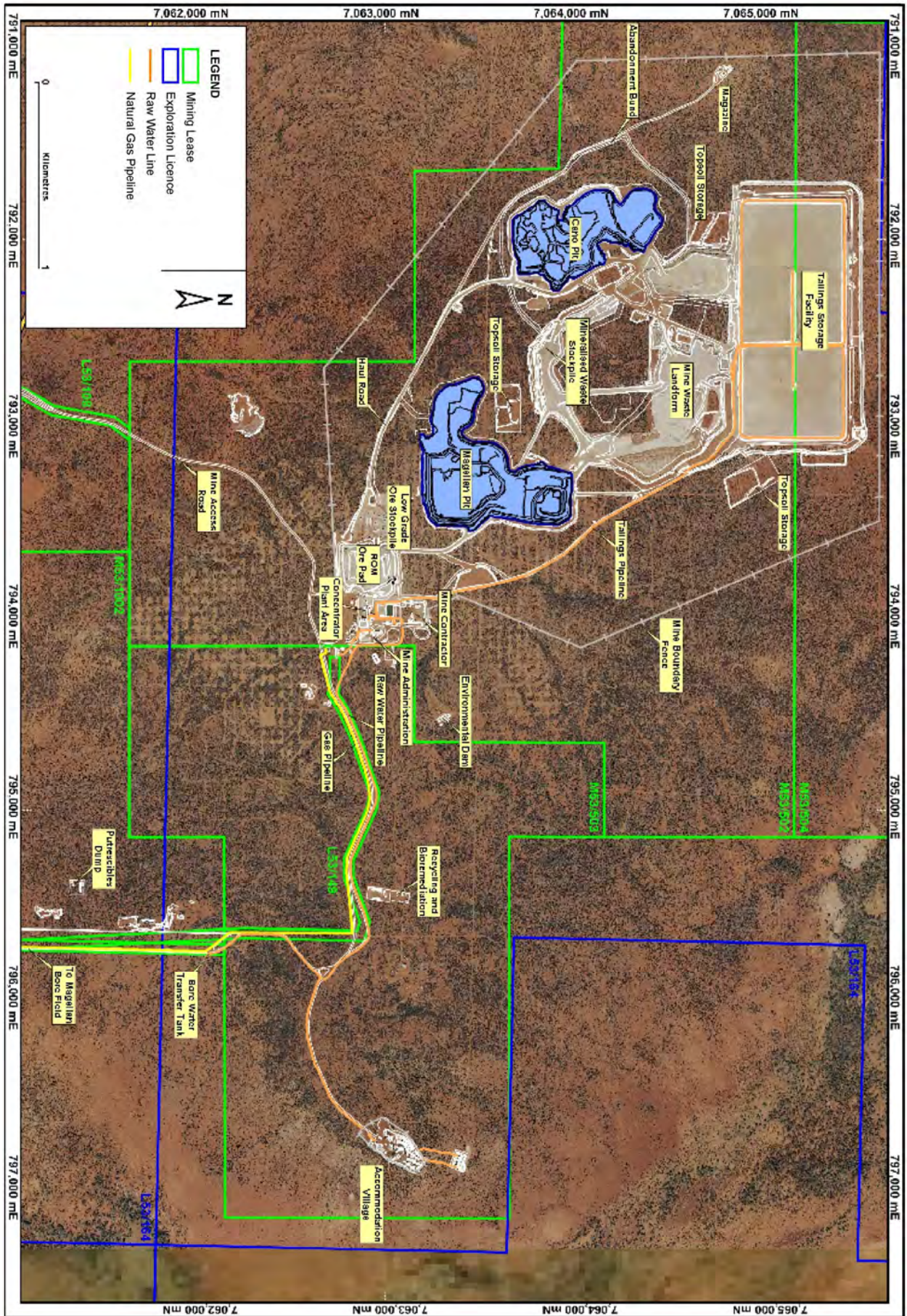




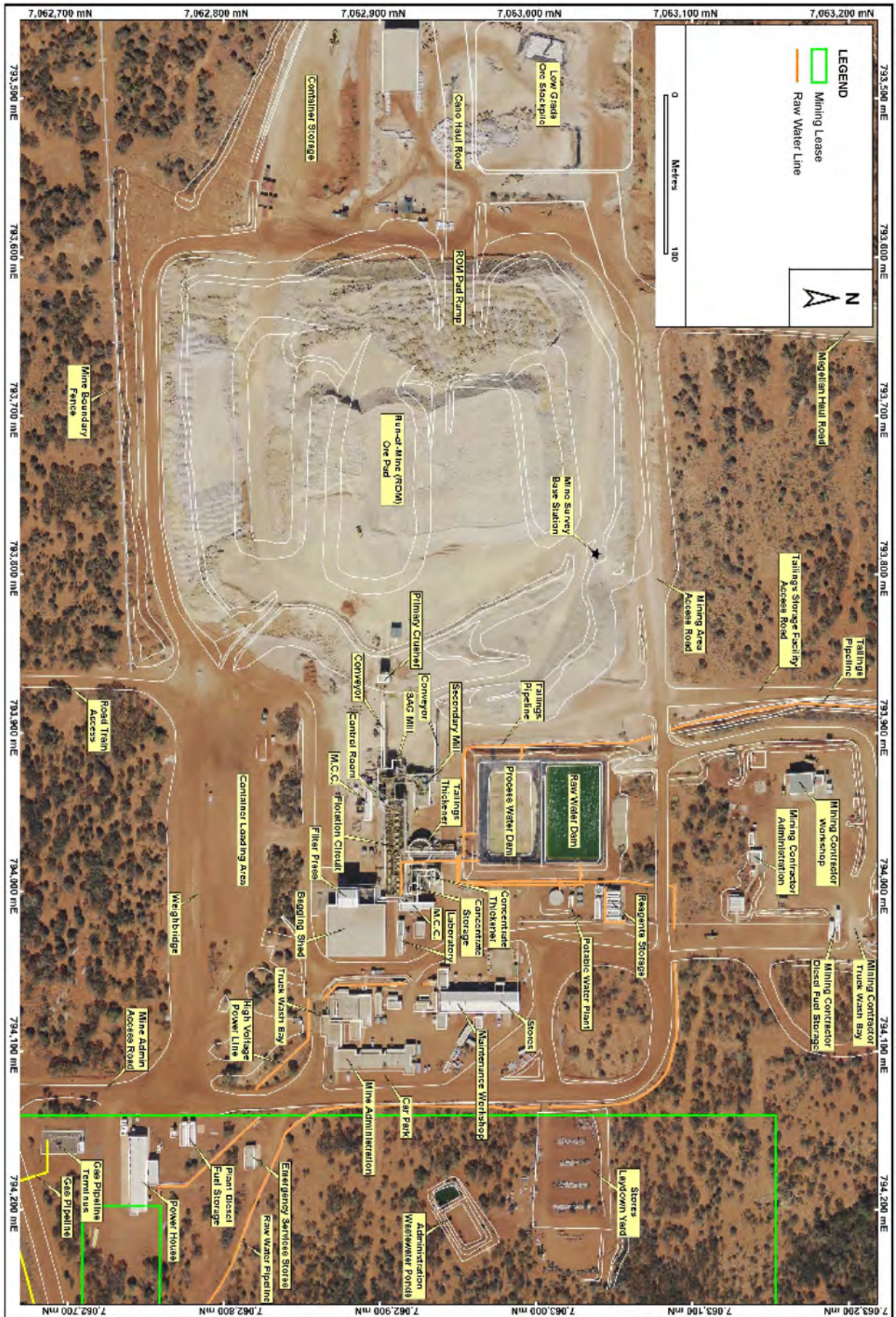
**Figure 15 Transport route and sampling sites – Midland to Fremantle**



**Figure 16 Transport route and sampling sites – Fremantle**



**Figure 17** General arrangement of the Magellan Lead Carbonate Project



**Figure 18** Magellan Lead Carbonate Project plant layout

## Soil Sampling

| Soil Site           | WGS84 East | WGS84 North | Site Location     | Lead Baseline Trigger Level |
|---------------------|------------|-------------|-------------------|-----------------------------|
| Unit of Measurement |            |             |                   | mg/kg                       |
| DMTRS01             | 792743     | 7060941     | Mine to Wiluna    | 69                          |
| DMTRS02             | 204474     | 7058310     | Mine to Wiluna    | 80                          |
| DMTRS03             | 213120     | 7055743     | Mine to Wiluna    | 33                          |
| DMTRS04             | 223327     | 7055326     | Mine to Wiluna    | 36                          |
| DMTRS05             | 222387     | 7048207     | Wiluna to Leonora | 27                          |
| DMTRS06             | 224583     | 7038858     | Wiluna to Leonora | 24                          |
| DMTRS07             | 229681     | 7030283     | Wiluna to Leonora | 20                          |
| DMTRS08             | 233941     | 7021241     | Wiluna to Leonora | 7                           |
| DMTRS09             | 238904     | 7012571     | Wiluna to Leonora | 12                          |
| DMTRS10             | 243982     | 7004011     | Wiluna to Leonora | 13                          |
| DMTRS11             | 249473     | 6995954     | Wiluna to Leonora | 22                          |
| DMTRS12             | 253330     | 6986739     | Wiluna to Leonora | 10                          |
| DMTRS13             | 254139     | 6976372     | Wiluna to Leonora | 13                          |
| DMTRS14             | 254305     | 6968324     | Wiluna to Leonora | 17                          |
| DMTRS15             | 256456     | 6958563     | Wiluna to Leonora | 15                          |
| DMTRS16             | 256016     | 6949717     | Wiluna to Leonora | 15                          |
| DMTRS17             | 258394     | 6939549     | Wiluna to Leonora | 13                          |
| DMTRS18             | 257418     | 6930393     | Wiluna to Leonora | 10                          |
| DMTRS19             | 261192     | 6921246     | Wiluna to Leonora | 15                          |
| DMTRS20             | 266271     | 6913106     | Wiluna to Leonora | 17                          |
| DMTRS21             | 274079     | 6907225     | Wiluna to Leonora | 16                          |
| DMTRS22             | 282203     | 6901419     | Wiluna to Leonora | 11                          |
| DMTRS23             | 289582     | 6895196     | Wiluna to Leonora | 11                          |
| DMTRS24             | 296184     | 6887142     | Wiluna to Leonora | 16                          |
| DMTRS25             | 304282     | 6882275     | Wiluna to Leonora | 22                          |
| DMTRS26             | 312125     | 6876130     | Wiluna to Leonora | 13                          |
| DMTRS27             | 317790     | 6868001     | Wiluna to Leonora | 9                           |
| DMTRS28             | 319897     | 6858772     | Wiluna to Leonora | 10                          |
| DMTRS29             | 323269     | 6849590     | Wiluna to Leonora | 16                          |
| DMTRS30             | 324162     | 6839884     | Wiluna to Leonora | 17                          |

|                |        |         |                       |            |
|----------------|--------|---------|-----------------------|------------|
| <b>DMTRS31</b> | 325049 | 6830127 | Wiluna to Leonora     | <b>16</b>  |
| <b>DMTRS32</b> | 329720 | 6821420 | Wiluna to Leonora     | <b>30</b>  |
| <b>DMTRS33</b> | 332200 | 6811960 | Wiluna to Leonora     | <b>19</b>  |
| <b>DMTRS34</b> | 336121 | 6805728 | Leonora               | <b>42</b>  |
| <b>DMTRS35</b> | 336194 | 6805661 | Leonora               | <b>82</b>  |
| <b>DMTRS36</b> | 336247 | 6805555 | Leonora               | <b>205</b> |
| <b>DMTRS37</b> | 336343 | 6805300 | Leonora               | <b>245</b> |
| <b>DMTRS38</b> | 336369 | 6805237 | Leonora               | <b>178</b> |
| <b>DMTRS39</b> | 336393 | 6805163 | Leonora               | <b>72</b>  |
| <b>DMTRS40</b> | 336688 | 6804526 | Leonora               | <b>38</b>  |
| <b>DMTRS41</b> | 336754 | 6803953 | Leonora               | <b>40</b>  |
| <b>DMTRS42</b> | 336722 | 6803448 | Leonora               | <b>239</b> |
| <b>DMTRS43</b> | 336742 | 6802929 | Leonora               | <b>60</b>  |
| <b>DMTRS44</b> | 339882 | 6799578 | Leonora               | <b>35</b>  |
| <b>DMTRS45</b> | 350134 | 6799194 | Leonora to Menzies    | <b>23</b>  |
| <b>DMTRS46</b> | 354893 | 6794056 | Leonora to Menzies    | <b>20</b>  |
| <b>DMTRS47</b> | 352712 | 6785422 | Leonora to Menzies    | <b>44</b>  |
| <b>DMTRS48</b> | 351580 | 6775052 | Leonora to Menzies    | <b>23</b>  |
| <b>DMTRS49</b> | 351510 | 6764892 | Leonora to Menzies    | <b>14</b>  |
| <b>DMTRS50</b> | 353618 | 6754862 | Leonora to Menzies    | <b>20</b>  |
| <b>DMTRS51</b> | 346211 | 6748748 | Leonora to Menzies    | <b>23</b>  |
| <b>DMTRS52</b> | 338605 | 6741938 | Leonora to Menzies    | <b>15</b>  |
| <b>DMTRS53</b> | 332395 | 6735705 | Leonora to Menzies    | <b>13</b>  |
| <b>DMTRS54</b> | 325051 | 6728418 | Leonora to Menzies    | <b>24</b>  |
| <b>DMTRS55</b> | 317647 | 6721114 | Leonora to Menzies    | <b>26</b>  |
| <b>DMTRS56</b> | 309805 | 6714665 | Menzies               | <b>75</b>  |
| <b>DMTRS57</b> | 309474 | 6713190 | Menzies               | <b>150</b> |
| <b>DMTRS58</b> | 312484 | 6705560 | Menzies               | <b>25</b>  |
| <b>DMTRS59</b> | 315825 | 6695884 | Menzies to Kalgoorlie | <b>10</b>  |
| <b>DMTRS60</b> | 318756 | 6686513 | Menzies to Kalgoorlie | <b>19</b>  |
| <b>DMTRS61</b> | 322672 | 6677746 | Menzies to Kalgoorlie | <b>8</b>   |
| <b>DMTRS62</b> | 322008 | 6667654 | Menzies to Kalgoorlie | <b>19</b>  |
| <b>DMTRS63</b> | 324272 | 6657937 | Menzies to Kalgoorlie | <b>14</b>  |
| <b>DMTRS64</b> | 330561 | 6650207 | Menzies to Kalgoorlie | <b>14</b>  |
| <b>DMTRS65</b> | 335966 | 6642835 | Menzies to Kalgoorlie | <b>18</b>  |
| <b>DMTRS66</b> | 339444 | 6631974 | Menzies to Kalgoorlie | <b>40</b>  |
| <b>DMTRS67</b> | 343381 | 6624181 | Menzies to Kalgoorlie | <b>37</b>  |
| <b>DMTRS68</b> | 349023 | 6616577 | Menzies to Kalgoorlie | <b>14</b>  |

|                 |        |         |                              |            |
|-----------------|--------|---------|------------------------------|------------|
| <b>DMTRS69</b>  | 351037 | 6606863 | Menzies to Kalgoorlie        | <b>19</b>  |
| <b>DMTRS70</b>  | 353084 | 6599778 | Kalgoorlie                   | <b>32</b>  |
| <b>DMTRS71</b>  | 353294 | 6599238 | Kalgoorlie                   | <b>45</b>  |
| <b>DMTRS72</b>  | 353430 | 6598765 | Kalgoorlie                   | <b>24</b>  |
| <b>DMTRS73</b>  | 353717 | 6598341 | Kalgoorlie                   | <b>126</b> |
| <b>DMTRS74</b>  | 353597 | 6597960 | Kalgoorlie                   | <b>89</b>  |
| <b>DMTRS75</b>  | 353193 | 6597467 | Kalgoorlie                   | <b>431</b> |
| <b>DMTRS76</b>  | 352622 | 6597027 | Kalgoorlie                   | <b>31</b>  |
| <b>DMTRS77</b>  | 352150 | 6596451 | Kalgoorlie                   | <b>44</b>  |
| <b>DMTRS78</b>  | 351867 | 6596116 | Kalgoorlie                   | <b>25</b>  |
| <b>DMTRS79</b>  | 351545 | 6595761 | Kalgoorlie                   | <b>16</b>  |
| <b>DMTRS80</b>  | 351189 | 6595385 | Kalgoorlie                   | <b>62</b>  |
| <b>DMTRS81</b>  | 350666 | 6595044 | Kalgoorlie                   | <b>26</b>  |
| <b>DMTRS82</b>  | 350167 | 6594767 | Kalgoorlie                   | <b>26</b>  |
| <b>DMTRS83</b>  | 349805 | 6594437 | Kalgoorlie                   | <b>25</b>  |
| <b>DMTRS84</b>  | 349107 | 6593984 | Kalgoorlie                   | <b>23</b>  |
| <b>DMTRS85</b>  | 348287 | 6593467 | Kalgoorlie                   | <b>14</b>  |
| <b>DMTRS86</b>  | 347841 | 6593182 | Kalgoorlie                   | <b>61</b>  |
| <b>DMTRS87</b>  | 340488 | 6589047 | Kalgoorlie to Southern Cross | <b>22</b>  |
| <b>DMTRS88</b>  | 331028 | 6586674 | Kalgoorlie to Southern Cross | <b>34</b>  |
| <b>DMTRS89</b>  | 321210 | 6585574 | Kalgoorlie to Southern Cross | <b>22</b>  |
| <b>DMTRS90</b>  | 311962 | 6581892 | Kalgoorlie to Southern Cross | <b>12</b>  |
| <b>DMTRS91</b>  | 300999 | 6581064 | Kalgoorlie to Southern Cross | <b>18</b>  |
| <b>DMTRS92</b>  | 292455 | 6578582 | Kalgoorlie to Southern Cross | <b>14</b>  |
| <b>DMTRS93</b>  | 284611 | 6582902 | Kalgoorlie to Southern Cross | <b>7</b>   |
| <b>DMTRS94</b>  | 275439 | 6583501 | Kalgoorlie to Southern Cross | <b>7</b>   |
| <b>DMTRS95</b>  | 265756 | 6581875 | Kalgoorlie to Southern Cross | <b>8</b>   |
| <b>DMTRS96</b>  | 255884 | 6582759 | Kalgoorlie to Southern Cross | <b>6</b>   |
| <b>DMTRS97</b>  | 247014 | 6587303 | Kalgoorlie to Southern Cross | <b>18</b>  |
| <b>DMTRS98</b>  | 237184 | 6586140 | Kalgoorlie to Southern Cross | <b>28</b>  |
| <b>DMTRS99</b>  | 228409 | 6585694 | Kalgoorlie to Southern Cross | <b>25</b>  |
| <b>DMTRS100</b> | 220001 | 6580399 | Kalgoorlie to Southern Cross | <b>15</b>  |
| <b>DMTRS101</b> | 784345 | 6582934 | Kalgoorlie to Southern Cross | <b>19</b>  |
| <b>DMTRS102</b> | 774403 | 6583272 | Kalgoorlie to Southern Cross | <b>11</b>  |
| <b>DMTRS103</b> | 764580 | 6584877 | Kalgoorlie to Southern Cross | <b>15</b>  |
| <b>DMTRS104</b> | 754966 | 6585420 | Kalgoorlie to Southern Cross | <b>21</b>  |
| <b>DMTRS105</b> | 745369 | 6587219 | Kalgoorlie to Southern Cross | <b>21</b>  |
| <b>DMTRS106</b> | 736580 | 6583871 | Kalgoorlie to Southern Cross | <b>11</b>  |

|                 |        |         |                              |            |
|-----------------|--------|---------|------------------------------|------------|
| <b>DMTRS107</b> | 729295 | 6578215 | Kalgoorlie to Southern Cross | <b>16</b>  |
| <b>DMTRS108</b> | 723722 | 6569863 | Kalgoorlie to Southern Cross | <b>11</b>  |
| <b>DMTRS109</b> | 723156 | 6559976 | Kalgoorlie to Southern Cross | <b>19</b>  |
| <b>DMTRS110</b> | 722316 | 6550108 | Kalgoorlie to Southern Cross | <b>11</b>  |
| <b>DMTRS111</b> | 720462 | 6544748 | Southern Cross               | <b>46</b>  |
| <b>DMTRS112</b> | 720212 | 6544399 | Southern Cross               | <b>16</b>  |
| <b>DMTRS113</b> | 719761 | 6543765 | Southern Cross               | <b>23</b>  |
| <b>DMTRS114</b> | 719489 | 6543442 | Southern Cross               | <b>19</b>  |
| <b>DMTRS115</b> | 718139 | 6541218 | Southern Cross to Merredin   | <b>11</b>  |
| <b>DMTRS116</b> | 708848 | 6538876 | Southern Cross to Merredin   | <b>21</b>  |
| <b>DMTRS117</b> | 699535 | 6535795 | Southern Cross to Merredin   | <b>24</b>  |
| <b>DMTRS118</b> | 692371 | 6530755 | Southern Cross to Merredin   | <b>13</b>  |
| <b>DMTRS119</b> | 683876 | 6528650 | Southern Cross to Merredin   | <b>5</b>   |
| <b>DMTRS120</b> | 674687 | 6529421 | Southern Cross to Merredin   | <b>30</b>  |
| <b>DMTRS121</b> | 664992 | 6527526 | Southern Cross to Merredin   | <b>6</b>   |
| <b>DMTRS122</b> | 658258 | 6526090 | Southern Cross to Merredin   | <b>5</b>   |
| <b>DMTRS123</b> | 648985 | 6528448 | Southern Cross to Merredin   | <b>11</b>  |
| <b>DMTRS124</b> | 639379 | 6526010 | Southern Cross to Merredin   | <b>21</b>  |
| <b>DMTRS125</b> | 633618 | 6521095 | Southern Cross to Merredin   | <b>24</b>  |
| <b>DMTRS126</b> | 626490 | 6517373 | Southern Cross to Merredin   | <b>13</b>  |
| <b>DMTRS127</b> | 622867 | 6516024 | Merredin                     | <b>145</b> |
| <b>DMTRS128</b> | 622310 | 6516069 | Merredin                     | <b>87</b>  |
| <b>DMTRS129</b> | 621767 | 6516114 | Merredin                     | <b>81</b>  |
| <b>DMTRS130</b> | 621189 | 6516158 | Merredin                     | <b>249</b> |
| <b>DMTRS131</b> | 620715 | 6516262 | Merredin                     | <b>144</b> |
| <b>DMTRS132</b> | 620166 | 6516335 | Merredin                     | <b>34</b>  |
| <b>DMTRS133</b> | 619603 | 6516399 | Merredin                     | <b>37</b>  |
| <b>DMTRS134</b> | 619111 | 6516184 | Merredin                     | <b>35</b>  |
| <b>DMTRS135</b> | 616523 | 6515220 | Merredin                     | <b>35</b>  |
| <b>DMTRS136</b> | 608214 | 6513169 | Merredin to Kellerberrin     | <b>30</b>  |
| <b>DMTRS137</b> | 599092 | 6510549 | Merredin to Kellerberrin     | <b>33</b>  |
| <b>DMTRS138</b> | 590453 | 6505613 | Merredin to Kellerberrin     | <b>52</b>  |
| <b>DMTRS139</b> | 580807 | 6501530 | Merredin to Kellerberrin     | <b>620</b> |
| <b>DMTRS140</b> | 571404 | 6500370 | Merredin to Kellerberrin     | <b>48</b>  |
| <b>DMTRS141</b> | 568994 | 6500101 | Kellerberrin                 | <b>103</b> |
| <b>DMTRS142</b> | 568441 | 6500035 | Kellerberrin                 | <b>92</b>  |
| <b>DMTRS143</b> | 567874 | 6499947 | Kellerberrin                 | <b>66</b>  |
| <b>DMTRS144</b> | 567342 | 6499855 | Kellerberrin                 | <b>42</b>  |



|                 |        |         |                         |            |
|-----------------|--------|---------|-------------------------|------------|
| <b>DMTRS145</b> | 561828 | 6498743 | Kellerberrin            | <b>21</b>  |
| <b>DMTRS146</b> | 553238 | 6500021 | Kellerberrin to Northam | <b>19</b>  |
| <b>DMTRS147</b> | 544431 | 6499028 | Kellerberrin to Northam | <b>196</b> |
| <b>DMTRS148</b> | 534616 | 6499244 | Kellerberrin to Northam | <b>197</b> |
| <b>DMTRS149</b> | 524657 | 6498417 | Kellerberrin to Northam | <b>29</b>  |
| <b>DMTRS150</b> | 514868 | 6500082 | Kellerberrin to Northam | <b>28</b>  |
| <b>DMTRS151</b> | 505161 | 6502440 | Kellerberrin to Northam | <b>42</b>  |
| <b>DMTRS152</b> | 496031 | 6499439 | Kellerberrin to Northam | <b>16</b>  |
| <b>DMTRS153</b> | 486318 | 6499411 | Kellerberrin to Northam | <b>23</b>  |
| <b>DMTRS154</b> | 476965 | 6498924 | Northam                 | <b>18</b>  |
| <b>DMTRS155</b> | 470684 | 6498261 | Northam                 | <b>852</b> |
| <b>DMTRS156</b> | 470085 | 6498256 | Northam                 | <b>43</b>  |
| <b>DMTRS157</b> | 469620 | 6498330 | Northam                 | <b>180</b> |
| <b>DMTRS158</b> | 469086 | 6498602 | Northam                 | <b>623</b> |
| <b>DMTRS159</b> | 468509 | 6499035 | Northam                 | <b>25</b>  |
| <b>DMTRS160</b> | 467822 | 6499226 | Northam                 | <b>51</b>  |
| <b>DMTRS161</b> | 462225 | 6498732 | Northam                 | <b>17</b>  |
| <b>DMTRS162</b> | 454352 | 6504256 | Toodyay                 | <b>27</b>  |
| <b>DMTRS163</b> | 450191 | 6508480 | Toodyay                 | <b>13</b>  |
| <b>DMTRS164</b> | 450070 | 6508751 | Toodyay                 | <b>45</b>  |
| <b>DMTRS165</b> | 449725 | 6509018 | Toodyay                 | <b>31</b>  |
| <b>DMTRS166</b> | 449177 | 6509142 | Toodyay                 | <b>34</b>  |
| <b>DMTRS167</b> | 445253 | 6509265 | Toodyay to Midland      | <b>26</b>  |
| <b>DMTRS168</b> | 438675 | 6506482 | Toodyay to Midland      | <b>18</b>  |
| <b>DMTRS169</b> | 434452 | 6508113 | Toodyay to Midland      | <b>20</b>  |
| <b>DMTRS170</b> | 412403 | 6488969 | Toodyay to Midland      | <b>17</b>  |
| <b>DMTRS171</b> | 408005 | 6482857 | Toodyay to Midland      | <b>85</b>  |
| <b>DMTRS172</b> | 408583 | 6473315 | Toodyay to Midland      | <b>19</b>  |
| <b>DMTRS173</b> | 408785 | 6472667 | Toodyay to Midland      | <b>58</b>  |
| <b>DMTRS174</b> | 408806 | 6471996 | Toodyay to Midland      | <b>28</b>  |
| <b>DMTRS175</b> | 409045 | 6471284 | Toodyay to Midland      | <b>37</b>  |
| <b>DMTRS176</b> | 408698 | 6470505 | Toodyay to Midland      | <b>30</b>  |
| <b>DMTRS177</b> | 408118 | 6470341 | Toodyay to Midland      | <b>30</b>  |
| <b>DMTRS178</b> | 407475 | 6470525 | Toodyay to Midland      | <b>212</b> |
| <b>DMTRS179</b> | 406831 | 6470708 | Toodyay to Midland      | <b>100</b> |
| <b>DMTRS180</b> | 405613 | 6471060 | Toodyay to Midland      | <b>62</b>  |
| <b>DMTRS181</b> | 406225 | 6470936 | Midland to Hazelmere    | <b>273</b> |
| <b>DMTRS182</b> | 404765 | 6471113 | Midland to Hazelmere    | <b>103</b> |

|                 |        |         |                           |             |
|-----------------|--------|---------|---------------------------|-------------|
| <b>DMTRS183</b> | 404476 | 6470259 | Midland to Hazelmere      | <b>25</b>   |
| <b>DMTRS184</b> | 404447 | 6469422 | Midland to Hazelmere      | <b>12</b>   |
| <b>DMTRS185</b> | 404529 | 6468997 | Midland to Hazelmere      | <b>45</b>   |
| <b>DMTRS186</b> | 404651 | 6468518 | Midland to Hazelmere      | <b>7</b>    |
| <b>DMTRS187</b> | 405001 | 6467167 | Hazelmere to Welshpool    | <b>23</b>   |
| <b>DMTRS188</b> | 404871 | 6466673 | Hazelmere to Welshpool    | <b>13</b>   |
| <b>DMTRS189</b> | 404709 | 6466140 | Hazelmere to Welshpool    | <b>15</b>   |
| <b>DMTRS190</b> | 404624 | 6465332 | Hazelmere to Welshpool    | <b>31</b>   |
| <b>DMTRS191</b> | 404769 | 6464586 | Hazelmere to Welshpool    | <b>30</b>   |
| <b>DMTRS192</b> | 404783 | 6464043 | Hazelmere to Welshpool    | <b>14</b>   |
| <b>DMTRS193</b> | 404661 | 6463302 | Hazelmere to Welshpool    | <b>61</b>   |
| <b>DMTRS194</b> | 404549 | 6462699 | Hazelmere to Welshpool    | <b>54</b>   |
| <b>DMTRS195</b> | 404398 | 6461992 | Hazelmere to Welshpool    | <b>50</b>   |
| <b>DMTRS196</b> | 404171 | 6461411 | Hazelmere to Welshpool    | <b>41</b>   |
| <b>DMTRS197</b> | 403648 | 6460923 | Welshpool to Canning Vale | <b>20</b>   |
| <b>DMTRS198</b> | 403449 | 6459850 | Welshpool to Canning Vale | <b>416</b>  |
| <b>DMTRS199</b> | 403459 | 6459274 | Welshpool to Canning Vale | <b>14</b>   |
| <b>DMTRS200</b> | 403448 | 6458713 | Welshpool to Canning Vale | <b>1500</b> |
| <b>DMTRS201</b> | 403215 | 6458240 | Welshpool to Canning Vale | <b>11</b>   |
| <b>DMTRS202</b> | 402975 | 6457603 | Welshpool to Canning Vale | <b>8</b>    |
| <b>DMTRS203</b> | 402988 | 6457124 | Welshpool to Canning Vale | <b>11</b>   |
| <b>DMTRS204</b> | 402993 | 6456753 | Welshpool to Canning Vale | <b>16</b>   |
| <b>DMTRS205</b> | 402391 | 6455462 | Welshpool to Canning Vale | <b>29</b>   |
| <b>DMTRS206</b> | 402037 | 6455049 | Welshpool to Canning Vale | <b>13</b>   |
| <b>DMTRS207</b> | 401241 | 6454065 | Welshpool to Canning Vale | <b>15</b>   |
| <b>DMTRS208</b> | 400224 | 6453058 | Welshpool to Canning Vale | <b>21</b>   |
| <b>DMTRS209</b> | 399608 | 6452462 | Welshpool to Canning Vale | <b>43</b>   |
| <b>DMTRS210</b> | 398959 | 6451791 | Canning Vale              | <b>16</b>   |
| <b>DMTRS211</b> | 398528 | 6451407 | Canning Vale              | <b>11</b>   |
| <b>DMTRS212</b> | 397957 | 6451133 | Canning Vale              | <b>115</b>  |
| <b>DMTRS213</b> | 397358 | 6451000 | Canning Vale              | <b>9</b>    |
| <b>DMTRS214</b> | 396385 | 6450780 | Canning Vale              | <b>14</b>   |
| <b>DMTRS215</b> | 393937 | 6449791 | Jandakot                  | <b>58</b>   |
| <b>DMTRS216</b> | 392497 | 6449033 | Jandakot                  | <b>20</b>   |
| <b>DMTRS217</b> | 391951 | 6448761 | Jandakot                  | <b>5</b>    |
| <b>DMTRS218</b> | 391555 | 6448543 | Jandakot                  | <b>7</b>    |
| <b>DMTRS219</b> | 391366 | 6448392 | South Lake                | <b>9</b>    |
| <b>DMTRS220</b> | 390742 | 6448007 | South Lake                | <b>18</b>   |
| <b>DMTRS221</b> | 390285 | 6447690 | South Lake                | <b>9</b>    |
| <b>DMTRS222</b> | 389788 | 6447483 | South Lake                | <b>7</b>    |

|                 |        |         |            |             |
|-----------------|--------|---------|------------|-------------|
| <b>DMTRS223</b> | 389186 | 6447076 | South Lake | <b>9</b>    |
| <b>DMTRS224</b> | 388860 | 6446747 | Yangebup   | <b>10</b>   |
| <b>DMTRS225</b> | 388362 | 6446249 | Yangebup   | <b>11</b>   |
| <b>DMTRS226</b> | 387897 | 6445838 | Yangebup   | <b>18</b>   |
| <b>DMTRS227</b> | 386547 | 6446042 | Yangebup   | <b>216</b>  |
| <b>DMTRS228</b> | 386313 | 6446706 | Yangebup   | <b>31</b>   |
| <b>DMTRS229</b> | 385733 | 6447090 | Spearwood  | <b>39</b>   |
| <b>DMTRS230</b> | 385193 | 6447366 | Spearwood  | <b>58</b>   |
| <b>DMTRS231</b> | 384787 | 6447428 | Spearwood  | <b>18</b>   |
| <b>DMTRS232</b> | 384471 | 6447609 | Spearwood  | <b>18</b>   |
| <b>DMTRS233</b> | 383901 | 6447712 | Spearwood  | <b>60</b>   |
| <b>DMTRS234</b> | 383380 | 6447952 | Coogee     | <b>11</b>   |
| <b>DMTRS235</b> | 382939 | 6448869 | Coogee     | <b>86</b>   |
| <b>DMTRS236</b> | 382593 | 6449247 | Coogee     | <b>18</b>   |
| <b>DMTRS237</b> | 382355 | 6449767 | Coogee     | <b>1500</b> |
| <b>DMTRS238</b> | 382301 | 6450404 | Fremantle  | <b>47</b>   |
| <b>DMTRS239</b> | 382130 | 6451052 | Fremantle  | <b>810</b>  |
| <b>DMTRS240</b> | 382074 | 6451506 | Fremantle  | <b>150</b>  |
| <b>DMTRS241</b> | 381907 | 6452126 | Fremantle  | <b>219</b>  |
| <b>DMTRS242</b> | 381375 | 6452414 | Fremantle  | <b>81</b>   |
| <b>DMTRS243</b> | 381204 | 6452777 | Fremantle  | <b>139</b>  |
| <b>DMTRS244</b> | 381667 | 6453251 | Fremantle  | <b>99</b>   |
| <b>DMTRS245</b> | 382015 | 6453711 | Fremantle  | <b>157</b>  |
| <b>DMTRS246</b> | 382320 | 6454174 | Fremantle  | <b>747</b>  |
| <b>DMTRS247</b> | 382331 | 6454585 | Fremantle  | <b>75</b>   |
| <b>DMTRS248</b> | 381880 | 6454855 | Fremantle  | <b>38</b>   |
| <b>DMTRS249</b> | 381249 | 6454321 | Fremantle  | <b>114</b>  |
| <b>DMTRS250</b> | 381162 | 6454166 | Fremantle  | <b>53</b>   |
| <b>DMTRS251</b> | 386967 | 6445619 | Fremantle  | <b>10</b>   |

## Rainwater Tank Sampling

| Water Site                 | WGS84 East | WGS84 North | Location        | Lead Baseline Trigger Level |
|----------------------------|------------|-------------|-----------------|-----------------------------|
| <b>Unit of Measurement</b> |            |             |                 | <b>mg/L</b>                 |
| <b>WATTRS01</b>            | 336655     | 6802942     | Leonora         | <b>0.008</b>                |
| <b>WATTRS02</b>            | 336843     | 6804068     | Leonora         | <b>0.01*</b>                |
| <b>WATTRS03^</b>           | 352034     | 6596278     | Kalgoorlie      | <b>0.01*</b>                |
| <b>WATTRS04^</b>           | 352157     | 6596128     | Kalgoorlie      | <b>0.01*</b>                |
| <b>WATTRS05</b>            | 352754     | 6597236     | Kalgoorlie      | <b>&lt;0.005</b>            |
| <b>WATTRS06</b>            | 351950     | 6595879     | Kalgoorlie      | <b>&lt;0.005</b>            |
| <b>WATTRS07</b>            | 720719     | 6543688     | Southern Cross  | <b>&lt;0.005</b>            |
| <b>WATTRS08</b>            | 720938     | 6543075     | Southern Cross  | <b>&lt;0.005</b>            |
| <b>WATTRS09</b>            | 719963     | 6544548     | Southern Cross  | <b>&lt;0.005</b>            |
| <b>WATTRS10</b>            | 621748     | 6516043     | Merredin        | <b>0.01*</b>                |
| <b>WATTRS11</b>            | 621619     | 6516566     | Merredin        | <b>0.01*</b>                |
| <b>WATTRS12</b>            | 567121     | 6499734     | Kellerberrin    | <b>&lt;0.005</b>            |
| <b>WATTRS13</b>            | 567853     | 6500062     | Kellerberrin    | <b>0.01*</b>                |
| <b>WATTRS14</b>            | 468592     | 6498816     | Northam         | <b>0.01*</b>                |
| <b>WATTRS15</b>            | 469392     | 6498694     | Northam         | <b>&lt;0.005</b>            |
| <b>WATTRS16</b>            | 406243     | 6471016     | Midland         | <b>0.009</b>                |
| <b>WATTRS17</b>            | 404494     | 6470844     | Midland         | <b>0.01*</b>                |
| <b>WATTRS18</b>            | 382375     | 6450549     | South Fremantle | <b>0.01*</b>                |
| <b>WATTRS19</b>            | 382203     | 6454981     | North Fremantle | <b>0.01*</b>                |

## Static Dust Sampling

| Site Number         | AGD84 Easting | AGD84 Northing | Site Location  | Lead Baseline Trigger Level   |
|---------------------|---------------|----------------|----------------|-------------------------------|
|                     |               |                |                |                               |
| Unit of Measurement |               |                |                | mg lead /m <sup>2</sup> /mth" |
| <b>SDMTRS01</b>     | 381591        | 6454322        | Fremantle Port | <b>1.07</b>                   |
| <b>SDMTRS02</b>     | 380982        | 6453828        | Fremantle Port | <b>2.74</b>                   |
| <b>SDMTRS03</b>     | 380654        | 6453299        | Fremantle Port | <b>2.66</b>                   |
| <b>SDMTRS04</b>     | 381543        | 6453336        | Fremantle Port | <b>3.37</b>                   |
| <b>SDMTRS05</b>     | 382178        | 6454397        | Fremantle Port | <b>1.51</b>                   |
| <b>SDMTRS06</b>     | 405452        | 6470914        | Midland        | <b>0.62</b>                   |
| <b>SDMTRS07</b>     | 406993        | 6470568        | Midland        | <b>0.73</b>                   |
| <b>SDMTRS08</b>     | 470535        | 6498088        | Northam        | <b>2.70</b>                   |
| <b>SDMTRS09</b>     | 470035        | 6498119        | Northam        | <b>0.74</b>                   |
| <b>SDMTRS10</b>     | 567496        | 6499779        | Kellerberrin   | <b>0.47</b>                   |
| <b>SDMTRS11</b>     | 568471        | 6499812        | Kellerberrin   | <b>4.34</b>                   |
| <b>SDMTRS12</b>     | 616399        | 6515069        | Merredin       | <b>0.50</b>                   |
| <b>SDMTRS13</b>     | 616365        | 6515108        | Merredin       | <b>0.87</b>                   |
| <b>SDMTRS14</b>     | 720172        | 6544365        | Southern Cross | <b>0.53</b>                   |
| <b>SDMTRS15</b>     | 720130        | 6544381        | Southern Cross | <b>0.89</b>                   |
| <b>SDMTRS16</b>     | 352008        | 6596301        | Kalgoorlie     | <b>0.52</b>                   |
| <b>SDMTRS17</b>     | 348972        | 6593826        | Kalgoorlie     | <b>4.06</b>                   |
| <b>SDMTRS18</b>     | 336266        | 6805106        | Leonora        | <b>3.34</b>                   |
| <b>SDMTRS19</b>     | 336227        | 6805096        | Leonora        | <b>1.56</b>                   |
| <b>SDMTRS20</b>     | 381777        | 6454719        | Fremantle      | <b>1.11</b>                   |
| <b>SDMTRS21</b>     | 382184        | 6453541        | Fremantle      | <b>1.47</b>                   |

## High-volume Air Sampling

| <b>Site Reference</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Lead Baseline Trigger Level <math>\mu\text{g}/\text{m}^3</math></b> |
|-----------------------|----------------------|-----------------------|--|
| Passenger Terminal    | 381755               | 6453509               | 0.500  |
| Berth 12              | 382306               | 6454502               |  |

## Benthic Sediment Sampling

| Site Number | AGD84 Easting | AGD84 Northing | Lead Baseline Trigger Level |
|-------------|---------------|----------------|-----------------------------|
|-------------|---------------|----------------|-----------------------------|

| Unit of Measurement |        |         | mg/kg (dry weight) |
|---------------------|--------|---------|--------------------|
| P1                  | 381834 | 6454392 | 19                 |
| P2                  | 381739 | 6454292 | 14                 |
| P3                  | 381710 | 6454249 | 11                 |
| P4                  | 381692 | 6454234 | 10                 |
| P5                  | 381620 | 6454134 | 9                  |
| P6                  | 381578 | 6454075 | 3                  |
| P7                  | 381517 | 6454014 | 8                  |
| P8                  | 381481 | 6453980 | 7                  |
| P9                  | 381478 | 6453942 | 18                 |
| P10                 | 381416 | 6453892 | 21                 |
| P11                 | 381357 | 6453810 | 16                 |
| P12                 | 381350 | 6453802 | 16                 |
| DP1                 | 381285 | 6453743 | 29                 |
| DP2                 | 381271 | 6453707 | 44                 |
| DP3                 | 381237 | 6453671 | 24                 |
| DP4                 | 381228 | 6453626 | 19                 |
| DP5                 | 381115 | 6453515 | 17                 |
| DP6                 | 381021 | 6453418 | 20                 |
| DP7                 | 381076 | 6453460 | 16                 |
| CO2                 | 381078 | 6454402 | 2                  |

## Drainage Sump Sampling

| Site Number | AGD84 Easting | AGD84 Northing | Lead Baseline Trigger Level |
|-------------|---------------|----------------|-----------------------------|
|-------------|---------------|----------------|-----------------------------|

| Unit of Measurement |        |         | mg/kg |
|---------------------|--------|---------|-------|
| SUMPTRS01           | 381362 | 6454316 | 43    |
| SUMPTRS02           | 381356 | 6454306 | 42    |
| SUMPTRS03(A)        | 381345 | 6454291 | 51    |
| SUMPTRS03(B)        | 381345 | 6454291 | 100   |
| SUMPTRS04(A)        | 381334 | 6454278 | 55    |
| SUMPTRS04(B)        | 381334 | 6454278 | 102   |
| SUMPTRS05           | 381329 | 6454255 | 35    |
| SUMPTRS06           | 381346 | 6454300 | 559   |
| SUMPTRS07           | 381356 | 6454322 | 128   |
| SUMPTRS08           | 381326 | 6454251 | 403   |
| SUMPTRS09           | 380965 | 6453790 | 128   |
| SUMPTRS10           | 380967 | 6453805 | 234   |
| SUMPTRS11           | 380973 | 6453823 | 96    |
| SUMPTRS12           | 380682 | 6453285 | 262   |
| SUMPTRS13           | 380671 | 6453286 | 165   |

## Air Quality in Container Sampling

Lead Baseline Trigger Level is 20 µg/m<sup>3</sup>.

**Note:** The baseline trigger levels are likely to change as further monitoring is carried out



## Attachment 1 to Ministerial Statement 905

### Change to proposal under s45C of the *Environmental Protection Act 1986*

This Attachment replaces Schedule 1 in Ministerial Statement 905.

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#### **Proposal: Magellan Lead Carbonate Project**

#### **Proponent: Rosslyn Hill Mining Pty Ltd**

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#### **The Proposal (Assessment No. 1868)**

The development of an open-cut mine, waste rock dump, tailings storage facilities, associated infrastructure, and processing facilities approximately 30 kilometres west of Wiluna.

Lead carbonate concentrate produced at the mine will be contained in sealed bulk bags with a double-laminated wall within locked steel shipping containers and transported by road to Leonora and then by rail to the Port of Fremantle, where it will be exported.

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#### **Changes to:**

- disturbance area,
- ore mining rate,
- production of solid waste materials,
- maximum annual water supply,
- life of project,
- water supply source,
- maximum hourly requirement of water,
- power generation,
- fuel storage; and
- amendments to Figures, locations and lead baseline trigger levels in Schedule 2

#### **Key Characteristics Table:** This table replaces Table 1 in Schedule 1

| <u>Element</u>   | <u>Description of proposal</u>   | <u>Description of approved change to proposal</u>                       |
|--|----------------------------------|---|
| Life of the Project (mine production)  | Up to 10 years                   | <b>Removed as not a key characteristic relevant to the environment.</b> |
| Size of ore body   | Not more than 8.2 million tonnes | Not more than 8.2 million tonnes  |
| Depth of mine pit  | Not more than 50 metres          | Not more than 50 metres   |
| Area of disturbance (including access)                                       | Not more than 320 hectares       | <b>Not more than 405 hectares</b>                                       |
| Major components: <ul style="list-style-type: none"><li>• Open pit</li></ul> | 55 hectares                      | <b>92 hectares</b>  |

|  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>Waste dumps</li> <li>Infrastructure (plant site water supply, roads, accommodation camp, etc)</li> <li>Tailings storage facilities</li> </ul> | 138 hectares<br>57 hectares<br>70 hectares  | <b>170 hectares</b><br><b>58 hectares</b><br><b>85 hectares</b>   |
| TOTAL AREA   | 320 hectares  | <b>405 hectares</b>   |
| Tailings storage facility (2 cells)  | Combined total capacity of 4 million tonnes   | Combined total capacity of 4 million tonnes   |
| Ore mining rate  | 1 million tonnes per year (maximum)   | <b>Removed as managed by other regulatory authorities</b>   |
| Solid waste materials  | 2.4 million tonnes per year (maximum)   | <b>Removed as managed by other regulatory authorities</b>   |
| Water supply: <ul style="list-style-type: none"> <li>Source</li> <li>Maximum hourly requirement</li> <li>Maximum annual requirement</li> </ul>                                       | Calcrete and chert aquifers southeast of the mine-site<br>170 kilolitres per hour<br>1.5 million kilolitres per annum         | <b>Removed as managed by other regulatory authorities.</b><br><b>Removed as managed by other regulatory authorities.</b><br><b>2.5 gigalitres</b> |
| Lead concentrate transport   | Road to Leonora and then rail to the Port of Fremantle in sealed bulk bags within locked steel shipping containers (Figure 1) | Road to Leonora and then rail to the Port of Fremantle in sealed bulk bags within locked steel shipping containers (Figure 1)                     |
| Power generation   | Natural gas – up to 139 terajoules per annum  | <b>Removed as managed by other regulatory authorities.</b>  |
| Fuel storage: <ul style="list-style-type: none"> <li>Capacity</li> <li>Quantity used</li> </ul>  | 50 kilolitres of storage<br>1.8 million litres per year (approximately)   | <b>Removed as managed by other regulatory authorities.</b><br><b>Removed as managed by other regulatory authorities.</b>                          |

Note: Text in **bold** in the Key Characteristics Table, indicates change/s to the proposal.

**All figures are deleted and replaced with the following:**

- Figure 1 Location of the Magellan Lead Carbonate Project, including transport route (specific details of the transport route are identified in Figures 2 – 16).
- Figure 2 Transport route and sampling sites – Wiluna
- Figure 3 Transport route and sampling sites – Wiluna to Leonora
- Figure 4 Transport route and sampling sites – Leonora
- Figure 5 Transport route and sampling sites – Leonora to Kalgoorlie
- Figure 6 Transport route and sampling sites – Kalgoorlie
- Figure 7 Transport route and sampling sites – Kalgoorlie to Southern Cross
- Figure 8 Transport route and sampling sites – Southern Cross
- Figure 9 Transport route and sampling sites – Southern Cross to Merredin to Kellerberrin
- Figure 10 Transport route and sampling sites – Merredin

- Figure 11 Transport route and sampling sites – Kellerberrin to Northam to Midland
- Figure 12 Transport route and sampling sites – Kellerberrin
- Figure 13 Transport route and sampling sites – Northam
- Figure 14 Transport route and sampling sites – Midland
- Figure 15 Transport route and sampling sites – Midland to Fremantle
- Figure 16 Transport route and sampling sites – Fremantle
- Figure 17 Transport route and sampling sites – Fremantle Port
- Figure 18 General arrangement of the Magellan Lead Carbonate Project
- Figure 19 Magellan Lead Carbonate Project plant layout

[Signed 19 December 2013]

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**Dr Paul Vogel**  
CHAIRMAN  
Environmental Protection Authority  
under delegated authority

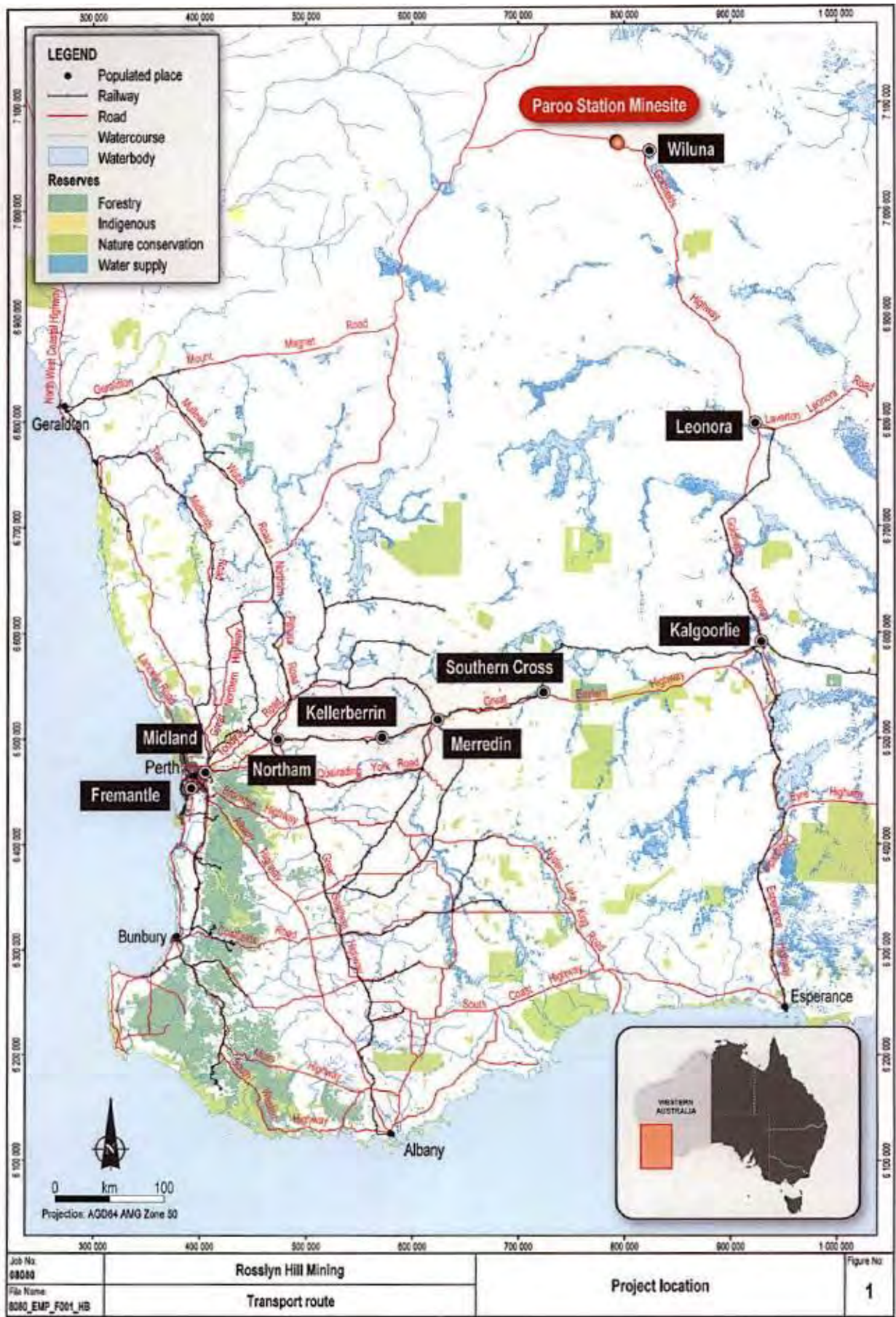


Figure 1 Location of the Magellan Lead Carbonate Project, including transport route (specific details of the transport route are identified in Figures 2 – 16).

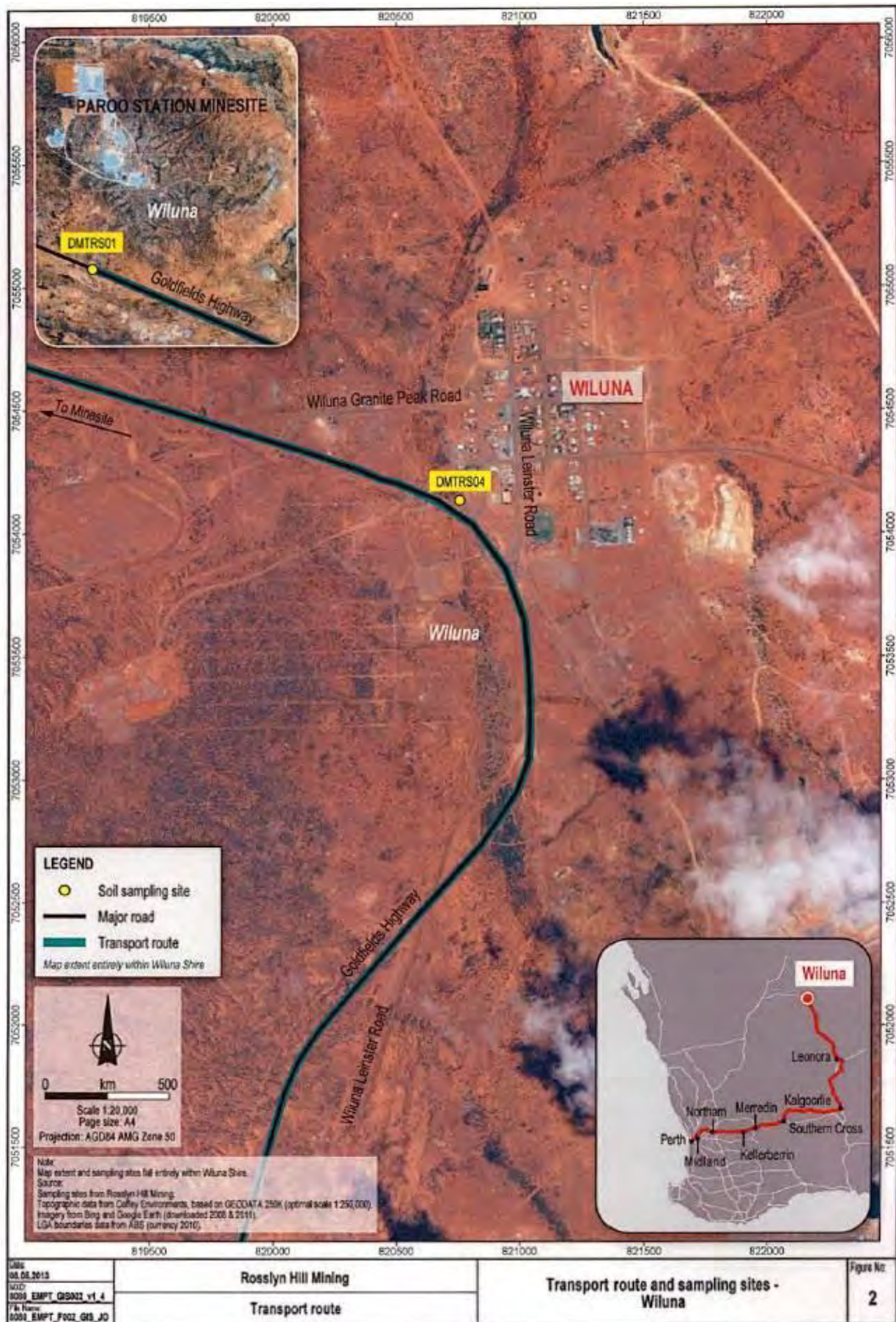


Figure 2 Transport route and sampling sites – Wiluna



Figure 3 Transport route and sampling sites – Wiluna to Leonora

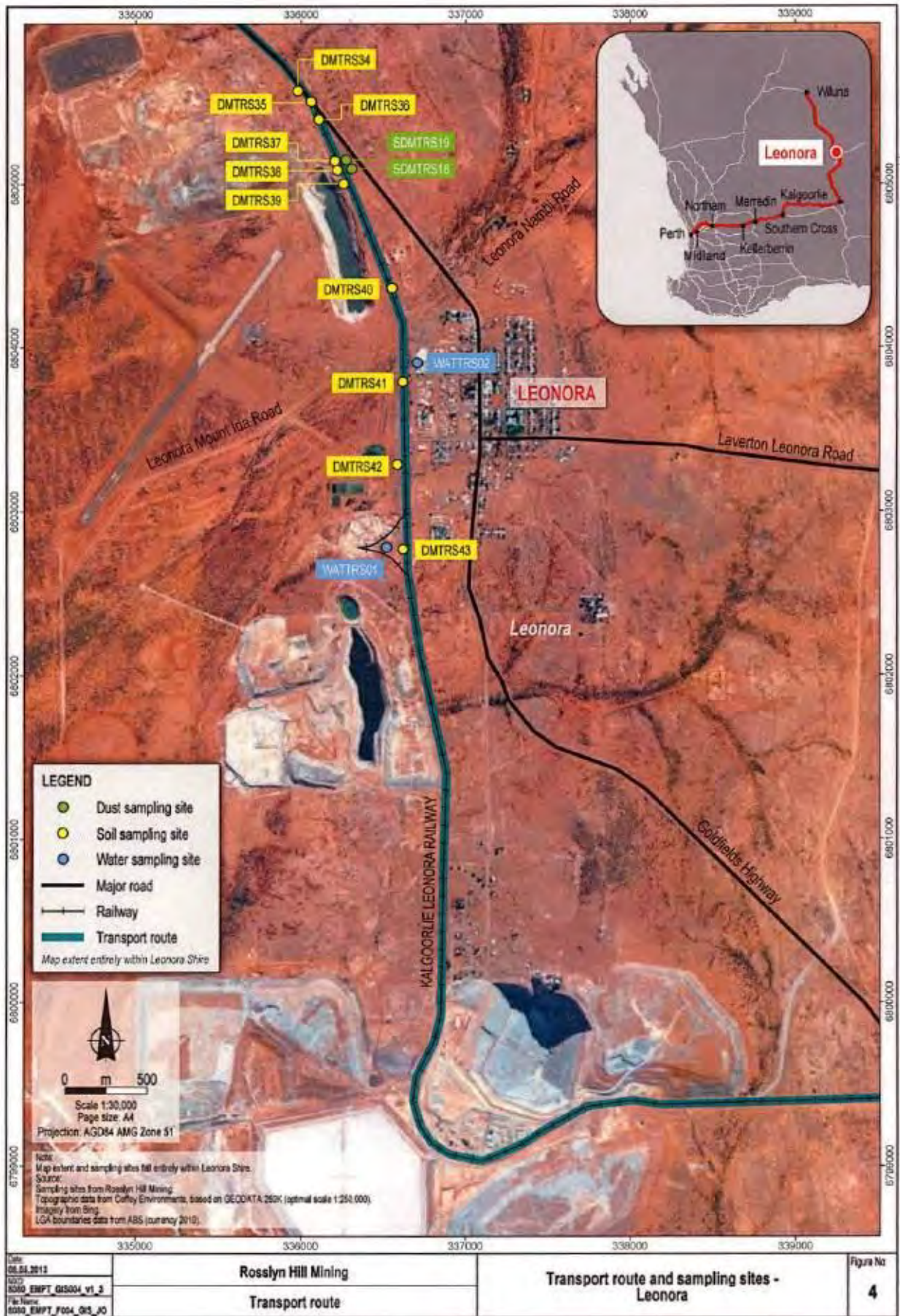


Figure 4 Transport route and sampling sites – Leonora



Figure 5 Transport route and sampling sites – Leonora to Kalgoorlie



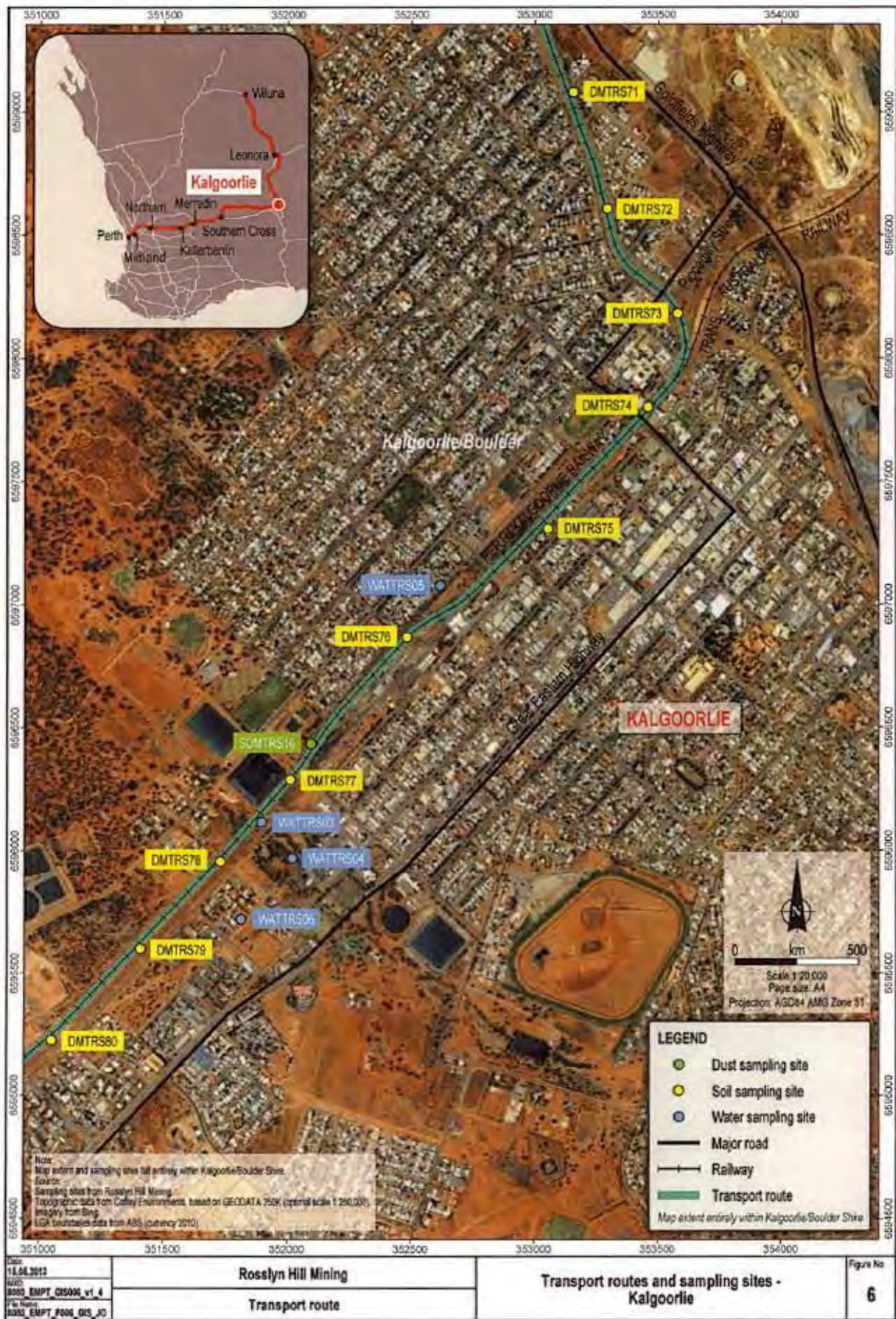


Figure 6 Transport route and sampling sites – Kalgoorlie

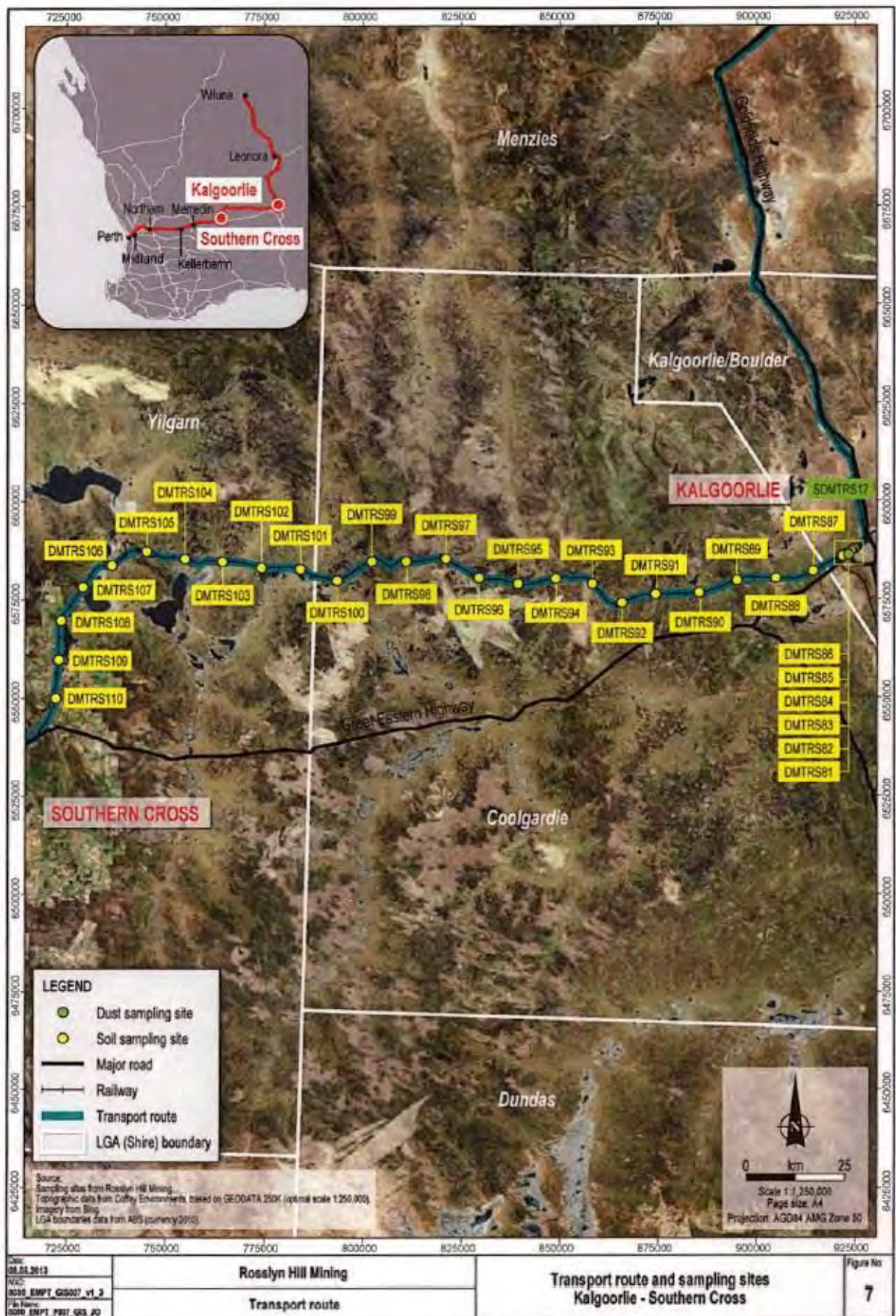


Figure 7 Transport route and sampling sites – Kalgoorlie to Southern Cross

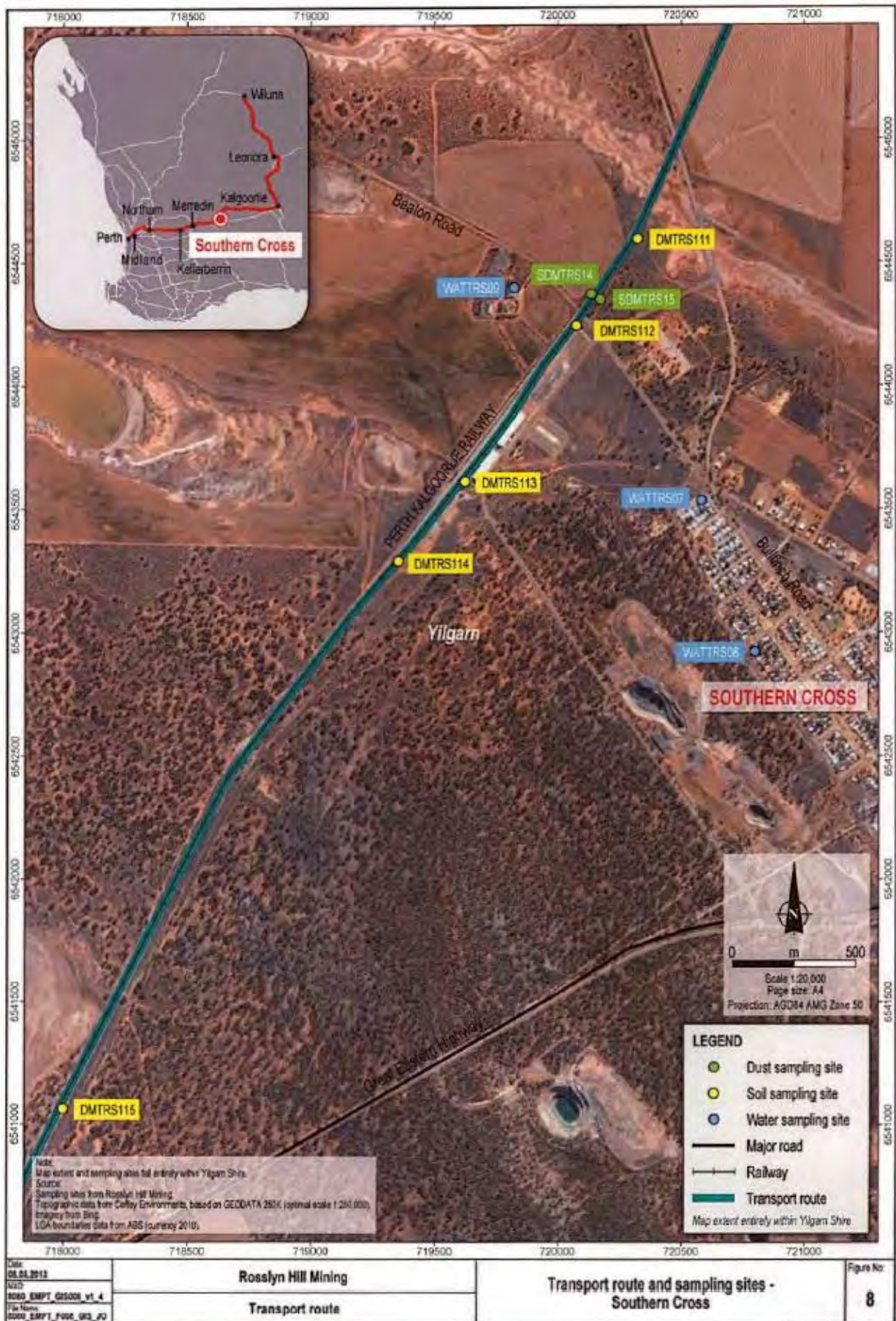


Figure 8 Transport route and sampling sites – Southern Cross



**Figure 9 Transport route and sampling sites – Southern Cross to Merredin to Kellerberrin**



Figure 10 Transport route and sampling sites – Merredin

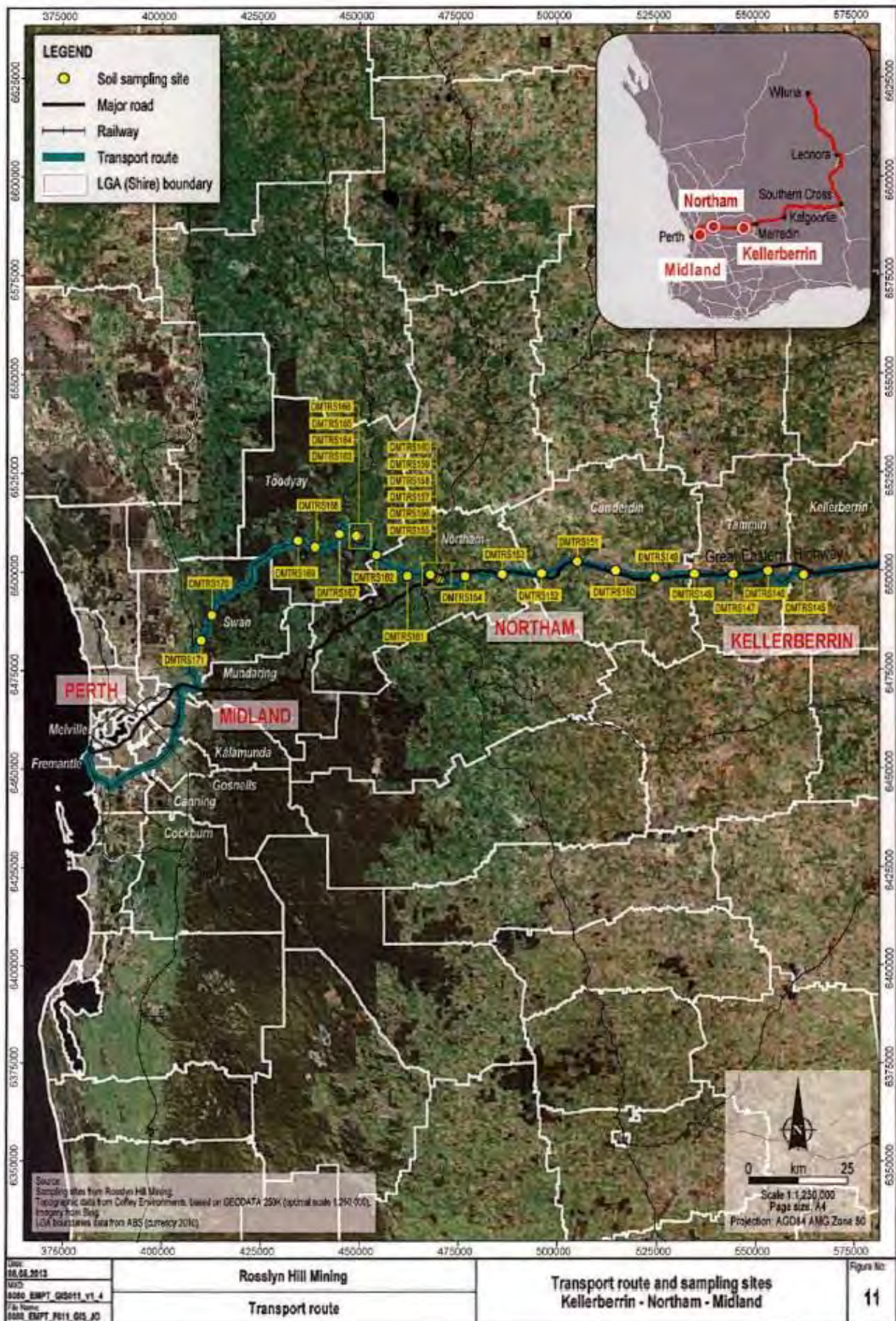


Figure 11 Transport route and sampling sites – Kellerberrin to Northam to Midland



Figure 12 Transport route and sampling sites – Kellerberrin



Figure 13 Transport route and sampling sites – Northam





Figure 14 Transport route and sampling sites – Midland



Figure 15 Transport route and sampling sites – Midland to Fremantle



Figure 16 Transport route and sampling sites – Fremantle



Figure 17 Transport route and sampling sites – Fremantle Port

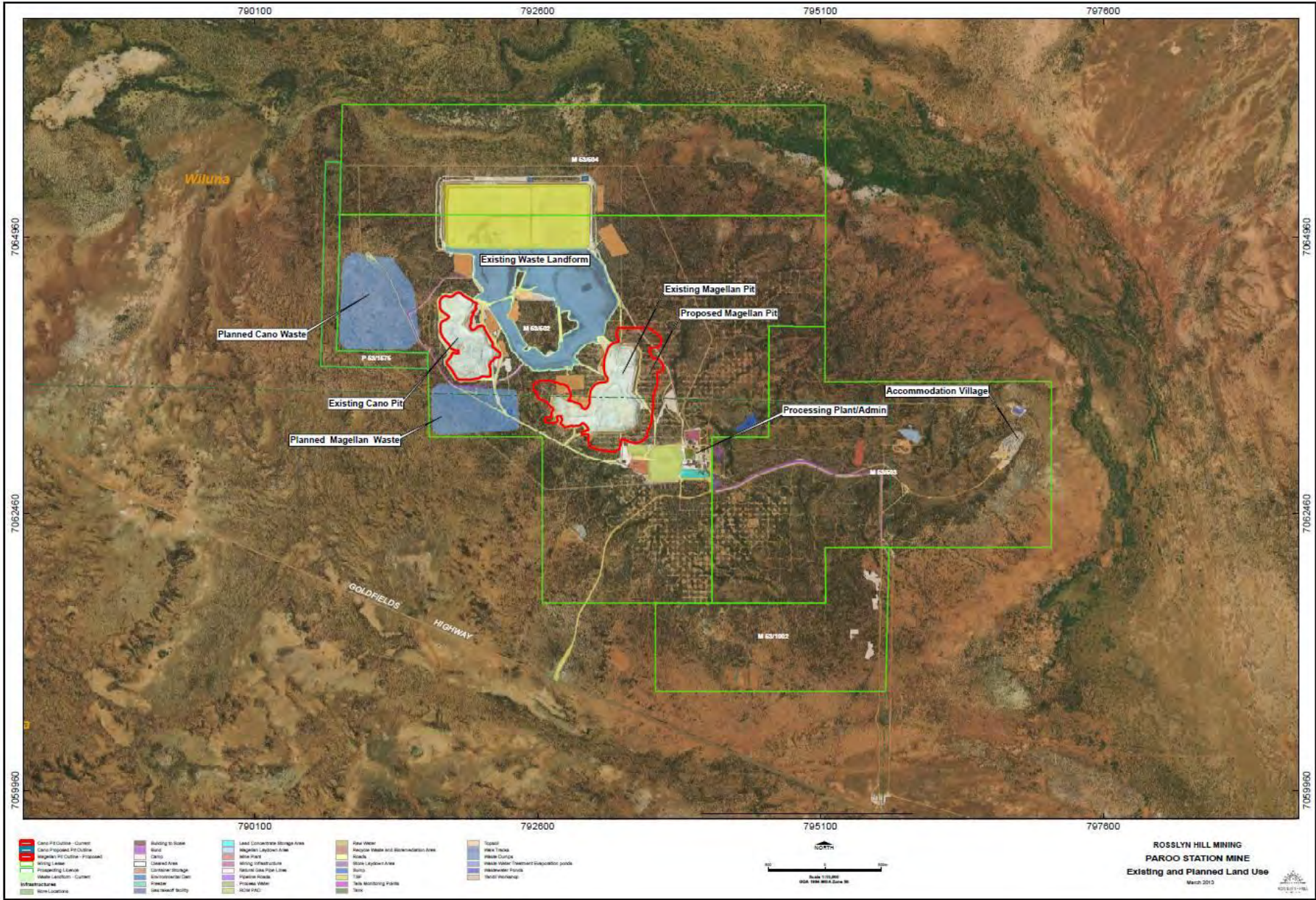


Figure 18 General arrangement of the Magellan Lead Carbonate Project



Figure 19 Magellan Lead Carbonate Project plant layout

## Attachment 2 to Ministerial Statement 905

Change to proposal under s45C of the *Environmental Protection Act 1986*

This Attachment replaces Schedule 2 in Ministerial Statement 905.

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### **Schedule 2 is deleted and replaced with the following:**

|         |   |
|---------|---|
| Table 1 | Soil Sampling Lead Baseline Trigger Level                     |
| Table 2 | Drainage Sump Sampling Lead Baseline Trigger Level            |
| Table 3 | Rainwater Tank Sampling Lead Baseline Trigger Level           |
| Table 4 | Benthic Sediment Sampling Lead Baseline Trigger Level         |
| Table 5 | Static Dust Sampling Lead Baseline Trigger Level              |
| Table 6 | High-volume Air Sampling Lead Baseline Trigger Level          |
| Table 7 | Air Quality in Container Sampling Lead Baseline Trigger Level |

Note: Column title "Lead Baseline Trigger Level" has been amended to read "Initial Lead Baseline Trigger Level" in all tables.

[Signed 19 December 2013]

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**Dr Paul Vogel**  
CHAIRMAN  
Environmental Protection Authority  
under delegated authority

**Table 1 Soil Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|----------------------|---|
| DMTRS01            | 792743               | 7060941               | Mine to Wiluna       | 69  |
| DMTRS02            | 204474               | 7058310               | Mine to Wiluna       | 80  |
| DMTRS03            | 213120               | 70555743              | Mine to Wiluna       | 33  |
| DMTRS04            | 223327               | 7055326               | Mine to Wiluna       | 36  |
| DMTRS05            | 222387               | 7048207               | Wiluna to Leonora    | 27  |
| DMTRS06            | 224583               | 7038858               | Wiluna to Leonora    | 24  |
| DMTRS07            | 229681               | 7030283               | Wiluna to Leonora    | 20  |
| DMTRS08            | 233941               | 7021241               | Wiluna to Leonora    | 7   |
| DMTRS09            | 238904               | 7012571               | Wiluna to Leonora    | 13  |
| DMTRS10            | 243982               | 7004011               | Wiluna to Leonora    | 13  |
| DMTRS11            | 249473               | 6995954               | Wiluna to Leonora    | 22  |
| DMTRS12            | 253330               | 6986739               | Wiluna to Leonora    | 11  |
| DMTRS13            | 254139               | 6976372               | Wiluna to Leonora    | 13  |
| DMTRS14            | 254305               | 6968324               | Wiluna to Leonora    | 17  |
| DMTRS15            | 256456               | 6958563               | Wiluna to Leonora    | 15  |
| DMTRS16            | 256016               | 6949717               | Wiluna to Leonora    | 15  |
| DMTRS17            | 258394               | 6939549               | Wiluna to Leonora    | 13  |
| DMTRS18            | 257418               | 6930393               | Wiluna to Leonora    | 10  |
| DMTRS19            | 261192               | 6921246               | Wiluna to Leonora    | 18  |
| DMTRS20            | 266271               | 6913106               | Wiluna to Leonora    | 17  |
| DMTRS21            | 274079               | 6907225               | Wiluna to Leonora    | 16  |
| DMTRS22            | 282203               | 6901419               | Wiluna to Leonora    | 11  |
| DMTRS23            | 289582               | 6895198               | Wiluna to Leonora    | 11  |
| DMTRS24            | 296184               | 6887142               | Wiluna to Leonora    | 16  |
| DMTRS25            | 304282               | 6882275               | Wiluna to Leonora    | 22  |
| DMTRS26            | 312125               | 6876130               | Wiluna to Leonora    | 13  |
| DMTRS27            | 317790               | 6868001               | Wiluna to Leonora    | 9   |
| DMTRS28            | 319897               | 6858772               | Wiluna to Leonora    | 10  |
| DMTRS29            | 323269               | 6849590               | Wiluna to Leonora    | 16  |
| DMTRS30            | 324162               | 6839884               | Wiluna to Leonora    | 17  |
| DMTRS31            | 325049               | 6830127               | Wiluna to Leonora    | 16  |
| DMTRS32            | 329720               | 6821420               | Wiluna to Leonora    | 30  |
| DMTRS33            | 332200               | 6811960               | Wiluna to Leonora    | 19  |
| DMTRS34            | 336121               | 6805728               | Leonora              | 42  |
| DMTRS35            | 336194               | 6805861               | Leonora              | 82  |
| DMTRS36            | 336247               | 6805555               | Leonora              | 205   |
| DMTRS37            | 336343               | 6805300               | Leonora              | 245   |
| DMTRS38            | 336369               | 6805237               | Leonora              | 178   |



| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>  | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|-----------------------|---|
| <b>DMTRS39</b>     | 336393               | 6805163               | Leonora               | <b>72</b>   |
| <b>DMTRS40</b>     | 336688               | 6804526               | Leonora               | <b>38</b>   |
| <b>DMTRS41</b>     | 336754               | 6803953               | Leonora               | <b>40</b>   |
| <b>DMTRS42</b>     | 336722               | 6803448               | Leonora               | <b>239</b>  |
| <b>DMTRS43</b>     | 336742               | 6802929               | Leonora               | <b>60</b>   |
| <b>DMTRS44</b>     | 339882               | 6799578               | Leonora               | <b>35</b>   |
| <b>DMTRS45</b>     | 350134               | 6799194               | Leonora to Menzies    | <b>23</b>   |
| <b>DMTRS46</b>     | 354893               | 6794056               | Leonora to Menzies    | <b>20</b>   |
| <b>DMTRS47</b>     | 352712               | 6785422               | Leonora to Menzies    | <b>44</b>   |
| <b>DMTRS48</b>     | 351580               | 6775052               | Leonora to Menzies    | <b>24</b>   |
| <b>DMTRS49</b>     | 351510               | 6764892               | Leonora to Menzies    | <b>14</b>   |
| <b>DMTRS50</b>     | 353618               | 6754862               | Leonora to Menzies    | <b>20</b>   |
| <b>DMTRS51</b>     | 346211               | 6748748               | Leonora to Menzies    | <b>23</b>   |
| <b>DMTRS52</b>     | 338605               | 6741938               | Leonora to Menzies    | <b>15</b>   |
| <b>DMTRS53</b>     | 332395               | 6735705               | Leonora to Menzies    | <b>13</b>   |
| <b>DMTRS54</b>     | 325051               | 6728418               | Leonora to Menzies    | <b>24</b>   |
| <b>DMTRS55</b>     | 317647               | 6721114               | Leonora to Menzies    | <b>26</b>   |
| <b>DMTRS56</b>     | 309805               | 6714665               | Menzies               | <b>75</b>   |
| <b>DMTRS57</b>     | 309474               | 6713190               | Menzies               | <b>150</b>  |
| <b>DMTRS58</b>     | 312484               | 6705560               | Menzies               | <b>25</b>   |
| <b>DMTRS59</b>     | 315825               | 6695884               | Menzies to Kalgoorlie | <b>10</b>   |
| <b>DMTRS60</b>     | 318756               | 6686513               | Menzies to Kalgoorlie | <b>19</b>   |
| <b>DMTRS61</b>     | 322672               | 6677746               | Menzies to Kalgoorlie | <b>9</b>  |
| <b>DMTRS62</b>     | 322008               | 6667654               | Menzies to Kalgoorlie | <b>19</b>   |
| <b>DMTRS63</b>     | 324272               | 6657937               | Menzies to Kalgoorlie | <b>14</b>   |
| <b>DMTRS64</b>     | 330561               | 6650207               | Menzies to Kalgoorlie | <b>14</b>   |
| <b>DMTRS65</b>     | 335966               | 6642835               | Menzies to Kalgoorlie | <b>18</b>   |
| <b>DMTRS66</b>     | 339444               | 6631974               | Menzies to Kalgoorlie | <b>40</b>   |
| <b>DMTRS67</b>     | 343381               | 6624181               | Menzies to Kalgoorlie | <b>37</b>   |
| <b>DMTRS68</b>     | 349023               | 6616577               | Menzies to Kalgoorlie | <b>14</b>   |
| <b>DMTRS69</b>     | 351037               | 6606863               | Menzies to Kalgoorlie | <b>19</b>   |
| <b>DMTRS70</b>     | 353084               | 6599778               | Kalgoorlie            | <b>56</b>   |
| <b>DMTRS71</b>     | 353294               | 6599238               | Kalgoorlie            | <b>45</b>   |
| <b>DMTRS72</b>     | 353430               | 6598765               | Kalgoorlie            | <b>48</b>   |
| <b>DMTRS73</b>     | 353717               | 6598341               | Kalgoorlie            | <b>126</b>  |
| <b>DMTRS74</b>     | 353597               | 6597960               | Kalgoorlie            | <b>89</b>   |
| <b>DMTRS75</b>     | 353193               | 6597467               | Kalgoorlie            | <b>431</b>  |
| <b>DMTRS76</b>     | 352622               | 6597027               | Kalgoorlie            | <b>31</b>   |
| <b>DMTRS77</b>     | 352150               | 6596451               | Kalgoorlie            | <b>44</b>   |
| <b>DMTRS78</b>     | 351867               | 6596116               | Kalgoorlie            | <b>25</b>   |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>         | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|------------------------------|---|
| <b>DMTRS79</b>     | 351545               | 6595761               | Kalgoorlie                   | <b>16</b>   |
| <b>DMTRS80</b>     | 351189               | 6595385               | Kalgoorlie                   | <b>87</b>   |
| <b>DMTRS81</b>     | 350666               | 6595044               | Kalgoorlie                   | <b>26</b>   |
| <b>DMTRS82</b>     | 350167               | 6594767               | Kalgoorlie                   | <b>26</b>   |
| <b>DMTRS83</b>     | 349805               | 6594437               | Kalgoorlie                   | <b>25</b>   |
| <b>DMTRS84</b>     | 349107               | 6593984               | Kalgoorlie                   | <b>35</b>   |
| <b>DMTRS85</b>     | 348287               | 6593467               | Kalgoorlie                   | <b>14</b>   |
| <b>DMTRS86</b>     | 347841               | 6593182               | Kalgoorlie                   | <b>61</b>   |
| <b>DMTRS87</b>     | 340488               | 6589047               | Kalgoorlie to Southern Cross | <b>22</b>   |
| <b>DMTRS88</b>     | 331028               | 6586674               | Kalgoorlie to Southern Cross | <b>34</b>   |
| <b>DMTRS89</b>     | 321210               | 6585574               | Kalgoorlie to Southern Cross | <b>22</b>   |
| <b>DMTRS90</b>     | 311962               | 6581892               | Kalgoorlie to Southern Cross | <b>12</b>   |
| <b>DMTRS91</b>     | 300999               | 6581064               | Kalgoorlie to Southern Cross | <b>18</b>   |
| <b>DMTRS92</b>     | 292455               | 6578582               | Kalgoorlie to Southern Cross | <b>14</b>   |
| <b>DMTRS93</b>     | 284611               | 6582902               | Kalgoorlie to Southern Cross | <b>7</b>  |
| <b>DMTRS94</b>     | 275454               | 6583401               | Kalgoorlie to Southern Cross | <b>2</b>  |
| <b>DMTRS95</b>     | 265756               | 6581875               | Kalgoorlie to Southern Cross | <b>8</b>  |
| <b>DMTRS96</b>     | 255884               | 6582759               | Kalgoorlie to Southern Cross | <b>6</b>  |
| <b>DMTRS97</b>     | 247014               | 6587303               | Kalgoorlie to Southern Cross | <b>18</b>   |
| <b>DMTRS98</b>     | 237184               | 6586140               | Kalgoorlie to Southern Cross | <b>28</b>   |
| <b>DMTRS99</b>     | 228409               | 6585694               | Kalgoorlie to Southern Cross | <b>25</b>   |
| <b>DMTRS100</b>    | 220001               | 6580399               | Kalgoorlie to Southern Cross | <b>15</b>   |
| <b>DMTRS101</b>    | 784345               | 6582934               | Kalgoorlie to Southern Cross | <b>19</b>   |
| <b>DMTRS102</b>    | 774403               | 6583272               | Kalgoorlie to Southern Cross | <b>11</b>   |
| <b>DMTRS103</b>    | 764580               | 6584877               | Kalgoorlie to Southern Cross | <b>15</b>   |
| <b>DMTRS104</b>    | 754966               | 6585420               | Kalgoorlie to Southern Cross | <b>21</b>   |
| <b>DMTRS105</b>    | 745369               | 6587219               | Kalgoorlie to Southern Cross | <b>21</b>   |
| <b>DMTRS106</b>    | 736580               | 6583871               | Kalgoorlie to Southern Cross | <b>11</b>   |
| <b>DMTRS107</b>    | 729295               | 6578215               | Kalgoorlie to Southern Cross | <b>16</b>   |
| <b>DMTRS108</b>    | 723722               | 6569863               | Kalgoorlie to Southern Cross | <b>11</b>   |
| <b>DMTRS109</b>    | 723156               | 6559976               | Kalgoorlie to Southern Cross | <b>19</b>   |
| <b>DMTRS110</b>    | 722316               | 6550108               | Kalgoorlie to Southern Cross | <b>11</b>   |
| <b>DMTRS111</b>    | 720462               | 6544748               | Southern Cross               | <b>46</b>   |
| <b>DMTRS112</b>    | 720212               | 6544399               | Southern Cross               | <b>16</b>   |
| <b>DMTRS113</b>    | 719761               | 6543765               | Southern Cross               | <b>23</b>   |
| <b>DMTRS114</b>    | 719489               | 6543442               | Southern Cross               | <b>19</b>   |
| <b>DMTRS115</b>    | 718139               | 6541218               | Southern Cross to Merredin   | <b>11</b>   |
| <b>DMTRS116</b>    | 708848               | 6538876               | Southern Cross to Merredin   | <b>21</b>   |
| <b>DMTRS117</b>    | 699535               | 6535795               | Southern Cross to Merredin   | <b>24</b>   |
| <b>DMTRS118</b>    | 692371               | 6530755               | Southern Cross to Merredin   | <b>13</b>   |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>       | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|----------------------------|---|
| DMTRS119           | 683876               | 6528650               | Southern Cross to Merredin | 5   |
| DMTRS120           | 674687               | 6529421               | Southern Cross to Merredin | 30  |
| DMTRS121           | 664992               | 6527526               | Southern Cross to Merredin | 6   |
| DMTRS122           | 658258               | 6526090               | Southern Cross to Merredin | 5   |
| DMTRS123           | 648985               | 6528448               | Southern Cross to Merredin | 11  |
| DMTRS124           | 639379               | 6526010               | Southern Cross to Merredin | 21  |
| DMTRS125           | 633618               | 6521095               | Southern Cross to Merredin | 24  |
| DMTRS126           | 626490               | 6517373               | Southern Cross to Merredin | 13  |
| DMTRS127           | 622867               | 6516024               | Merredin                   | 145   |
| DMTRS128           | 622310               | 6516069               | Merredin                   | 87  |
| DMTRS129           | 621767               | 6516114               | Merredin                   | 81  |
| DMTRS130           | 621189               | 6516158               | Merredin                   | 249   |
| DMTRS131           | 620715               | 6516262               | Merredin                   | 144   |
| DMTRS132           | 620166               | 6516335               | Merredin                   | 34  |
| DMTRS133           | 619603               | 6516399               | Merredin                   | 37  |
| DMTRS134           | 619111               | 6516184               | Merredin                   | 35  |
| DMTRS135           | 616523               | 6515220               | Merredin                   | 35  |
| DMTRS136           | 608214               | 6513169               | Merredin to Kellerberrin   | 30  |
| DMTRS137           | 599092               | 6510549               | Merredin to Kellerberrin   | 33  |
| DMTRS138           | 590453               | 6505613               | Merredin to Kellerberrin   | 52  |
| DMTRS139           | 580807               | 6501530               | Merredin to Kellerberrin   | 620   |
| DMTRS140           | 571404               | 6500370               | Merredin to Kellerberrin   | 48  |
| DMTRS141           | 568994               | 6500101               | Kellerberrin               | 103   |
| DMTRS142           | 568441               | 6500035               | Kellerberrin               | 92  |
| DMTRS143           | 567874               | 6499947               | Kellerberrin               | 66  |
| DMTRS144           | 567342               | 6499855               | Kellerberrin               | 42  |
| DMTRS145           | 561828               | 6498743               | Kellerberrin               | 21  |
| DMTRS146           | 553238               | 6500021               | Kellerberrin to Northam    | 19  |
| DMTRS147           | 544431               | 6499028               | Kellerberrin to Northam    | 196   |
| DMTRS148           | 534616               | 6499244               | Kellerberrin to Northam    | 197   |
| DMTRS149           | 524657               | 6498417               | Kellerberrin to Northam    | 29  |
| DMTRS150           | 514868               | 6500082               | Kellerberrin to Northam    | 28  |
| DMTRS151           | 505161               | 6502440               | Kellerberrin to Northam    | 42  |
| DMTRS152           | 496031               | 6499439               | Kellerberrin to Northam    | 16  |
| DMTRS153           | 486318               | 6499411               | Kellerberrin to Northam    | 23  |
| DMTRS154           | 476965               | 6498924               | Northam                    | 18  |
| DMTRS155           | 470684               | 6498261               | Northam                    | 852   |
| DMTRS156           | 470085               | 6498256               | Northam                    | 43  |
| DMTRS157           | 469620               | 6498330               | Northam                    | 180   |
| DMTRS158           | 469086               | 6498602               | Northam                    | 623   |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>      | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|---------------------------|---|
| <b>DMTRS159</b>    | 468509               | 6499035               | Northam                   | <b>25</b>   |
| <b>DMTRS160</b>    | 467822               | 6499226               | Northam                   | <b>51</b>   |
| <b>DMTRS161</b>    | 462225               | 6498732               | Northam                   | <b>17</b>   |
| <b>DMTRS162</b>    | 454352               | 6504256               | Toodyay                   | <b>27</b>   |
| <b>DMTRS163</b>    | 450191               | 6508480               | Toodyay                   | <b>13</b>   |
| <b>DMTRS164</b>    | 450070               | 6508751               | Toodyay                   | <b>45</b>   |
| <b>DMTRS165</b>    | 449725               | 6509018               | Toodyay                   | <b>31</b>   |
| <b>DMTRS166</b>    | 449177               | 6509142               | Toodyay                   | <b>34</b>   |
| <b>DMTRS167</b>    | 445253               | 6509265               | Toodyay to Midland        | <b>26</b>   |
| <b>DMTRS168</b>    | 438675               | 6506482               | Toodyay to Midland        | <b>18</b>   |
| <b>DMTRS169</b>    | 434452               | 6508113               | Toodyay to Midland        | <b>26</b>   |
| <b>DMTRS170</b>    | 412403               | 6488969               | Toodyay to Midland        | <b>17</b>   |
| <b>DMTRS171</b>    | 418005               | 6482857               | Toodyay to Midland        | <b>99</b>   |
| <b>DMTRS172</b>    | 408583               | 6473315               | Toodyay to Midland        | <b>19</b>   |
| <b>DMTRS173</b>    | 408785               | 6472667               | Toodyay to Midland        | <b>58</b>   |
| <b>DMTRS174</b>    | 408806               | 6471996               | Toodyay to Midland        | <b>28</b>   |
| <b>DMTRS175</b>    | 409045               | 6471284               | Toodyay to Midland        | <b>37</b>   |
| <b>DMTRS176</b>    | 408698               | 6470505               | Toodyay to Midland        | <b>43</b>   |
| <b>DMTRS177</b>    | 408118               | 6470341               | Toodyay to Midland        | <b>30</b>   |
| <b>DMTRS178</b>    | 407475               | 6470525               | Toodyay to Midland        | <b>212</b>  |
| <b>DMTRS179</b>    | 406831               | 6470708               | Toodyay to Midland        | <b>100</b>  |
| <b>DMTRS180</b>    | 405613               | 6471060               | Toodyay to Midland        | <b>62</b>   |
| <b>DMTRS181</b>    | 406225               | 6470936               | Midland to Hazelmere      | <b>273</b>  |
| <b>DMTRS182</b>    | 404765               | 6471113               | Midland to Hazelmere      | <b>103</b>  |
| <b>DMTRS183</b>    | 404476               | 6470259               | Midland to Hazelmere      | <b>25</b>   |
| <b>DMTRS184</b>    | 404447               | 6469422               | Midland to Hazelmere      | <b>15</b>   |
| <b>DMTRS185</b>    | 404529               | 6468997               | Midland to Hazelmere      | <b>45</b>   |
| <b>DMTRS186</b>    | 404651               | 6468518               | Midland to Hazelmere      | <b>7</b>  |
| <b>DMTRS187</b>    | 405001               | 6467167               | Hazelmere to Welshpool    | <b>23</b>   |
| <b>DMTRS188</b>    | 404871               | 6466673               | Hazelmere to Welshpool    | <b>13</b>   |
| <b>DMTRS189</b>    | 404709               | 6466140               | Hazelmere to Welshpool    | <b>16</b>   |
| <b>DMTRS190</b>    | 404624               | 6465332               | Hazelmere to Welshpool    | <b>31</b>   |
| <b>DMTRS191</b>    | 404769               | 6464586               | Hazelmere to Welshpool    | <b>30</b>   |
| <b>DMTRS192</b>    | 404783               | 6464043               | Hazelmere to Welshpool    | <b>14</b>   |
| <b>DMTRS193</b>    | 404661               | 6463302               | Hazelmere to Welshpool    | <b>61</b>   |
| <b>DMTRS194</b>    | 404549               | 6462699               | Hazelmere to Welshpool    | <b>54</b>   |
| <b>DMTRS195</b>    | 404398               | 6461992               | Hazelmere to Welshpool    | <b>50</b>   |
| <b>DMTRS196</b>    | 404171               | 6461411               | Hazelmere to Welshpool    | <b>43</b>   |
| <b>DMTRS197</b>    | 403648               | 6460923               | Welshpool to Canning Vale | <b>20</b>   |
| <b>DMTRS198</b>    | 403449               | 6459850               | Welshpool to Canning Vale | <b>416</b>  |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>      | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|---------------------------|---|
| DMTRS199           | 403459               | 6459274               | Welshpool to Canning Vale | 14  |
| DMTRS200           | 403448               | 6458713               | Welshpool to Canning Vale | 1500  |
| DMTRS201           | 403215               | 6458240               | Welshpool to Canning Vale | 11  |
| DMTRS202           | 402975               | 6457603               | Welshpool to Canning Vale | 8   |
| DMTRS203           | 402988               | 6457124               | Welshpool to Canning Vale | 11  |
| DMTRS204           | 402993               | 6456753               | Welshpool to Canning Vale | 16  |
| DMTRS205           | 402391               | 6455462               | Welshpool to Canning Vale | 29  |
| DMTRS206           | 402037               | 6455049               | Welshpool to Canning Vale | 13  |
| DMTRS207           | 401241               | 6454065               | Welshpool to Canning Vale | 17  |
| DMTRS208           | 400224               | 6453058               | Welshpool to Canning Vale | 21  |
| DMTRS209           | 399608               | 6452462               | Welshpool to Canning Vale | 43  |
| DMTRS210           | 398959               | 6451791               | Canning Vale              | 18  |
| DMTRS211           | 398528               | 6451407               | Canning Vale              | 16  |
| DMTRS212           | 397957               | 6451133               | Canning Vale              | 115   |
| DMTRS213           | 397358               | 6451000               | Canning Vale              | 9   |
| DMTRS214           | 396385               | 6450780               | Canning Vale              | 14  |
| DMTRS215           | 393937               | 6449791               | Jandakot                  | 58  |
| DMTRS216           | 392497               | 6449033               | Jandakot                  | 29  |
| DMTRS217           | 391951               | 6448761               | Jandakot                  | 5   |
| DMTRS218           | 391555               | 6448543               | Jandakot                  | 7   |
| DMTRS219           | 391366               | 6448392               | South Lake                | 9   |
| DMTRS220           | 390742               | 6448007               | South Lake                | 18  |
| DMTRS221           | 390285               | 6447690               | South Lake                | 9   |
| DMTRS222           | 389788               | 6447483               | South Lake                | 13  |
| DMTRS223           | 389186               | 6447076               | South Lake                | 9   |
| DMTRS224           | 388860               | 6446747               | Yangebup                  | 10  |
| DMTRS225           | 388362               | 6446249               | Yangebup                  | 11  |
| DMTRS226           | 387897               | 6445838               | Yangebup                  | 18  |
| DMTRS227           | 386547               | 6446042               | Yangebup                  | 216   |
| DMTRS228           | 386313               | 6446706               | Yangebup                  | 31  |
| DMTRS229           | 385733               | 6447090               | Spearwood                 | 39  |
| DMTRS230           | 385193               | 6447366               | Spearwood                 | 58  |
| DMTRS231           | 384787               | 6447428               | Spearwood                 | 18  |
| DMTRS232           | 384471               | 6447609               | Spearwood                 | 18  |
| DMTRS233           | 383901               | 6447712               | Spearwood                 | 60  |
| DMTRS234           | 383380               | 6447952               | Coogee                    | 11  |
| DMTRS235           | 382939               | 6448869               | Coogee                    | 86  |
| DMTRS236           | 382593               | 6449247               | Coogee                    | 18  |
| DMTRS237           | 382355               | 6449767               | Coogee                    | 1500  |
| DMTRS238           | 382301               | 6450404               | Fremantle                 | 47  |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|----------------------|---|
| <b>DMTRS239</b>    | 382130               | 6451052               | Fremantle            | <b>810</b>  |
| <b>DMTRS240</b>    | 382074               | 6451506               | Fremantle            | <b>150</b>  |
| <b>DMTRS241</b>    | 381907               | 6452126               | Fremantle            | <b>219</b>  |
| <b>DMTRS242</b>    | 381375               | 6452414               | Fremantle            | <b>170</b>  |
| <b>DMTRS243</b>    | 381204               | 6452777               | Fremantle            | <b>139</b>  |
| <b>DMTRS244</b>    | 381667               | 6453251               | Fremantle            | <b>210</b>  |
| <b>DMTRS245</b>    | 382015               | 6453711               | Fremantle            | <b>157</b>  |
| <b>DMTRS246</b>    | 382320               | 6454174               | Fremantle            | <b>747</b>  |
| <b>DMTRS247</b>    | 382331               | 6454585               | Fremantle            | <b>128</b>  |
| <b>DMTRS248</b>    | 381880               | 6454855               | Fremantle            | <b>42</b>   |
| <b>DMTRS249</b>    | 381249               | 6454321               | Fremantle            | <b>114</b>  |
| <b>DMTRS250</b>    | 381162               | 6454166               | Fremantle            | <b>53</b>   |
| <b>DMTRS251</b>    | 386967               | 6445619               | Yangebup             | <b>10</b>   |

**Table 2          Drainage Sump Sampling Lead Baseline Trigger Level**

| <b>Site Number</b>   | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/kg)</b> |
|----------------------|----------------------|-----------------------|---|
| <b>SUMPTRS01</b>     | 381362               | 6454316               | <b>55</b>   |
| <b>SUMPTRS02</b>     | 381356               | 6454306               | <b>96</b>   |
| <b>SUMPTRS03 (A)</b> | 381345               | 6454291               | <b>70</b>   |
| <b>SUMPTRS03 (B)</b> | 381345               | 6454291               | <b>106</b>  |
| <b>SUMPTRS04 (A)</b> | 381334               | 6454278               | <b>69</b>   |
| <b>SUMPTRS04 (B)</b> | 381334               | 6454278               | <b>102</b>  |
| <b>SUMPTRS05</b>     | 381329               | 6454255               | <b>77</b>   |
| <b>SUMPTRS06</b>     | 381346               | 6454300               | <b>559</b>  |
| <b>SUMPTRS07</b>     | 381356               | 6454322               | <b>128</b>  |
| <b>SUMPTRS08</b>     | 381326               | 6454251               | <b>403</b>  |
| <b>SUMPTRS09</b>     | 380965               | 6453790               | <b>128</b>  |
| <b>SUMPTRS10</b>     | 380967               | 6453805               | <b>234</b>  |
| <b>SUMPTRS11</b>     | 380973               | 6453823               | <b>140</b>  |
| <b>SUMPTRS12</b>     | 380682               | 6453265               | <b>262</b>  |
| <b>SUMPTRS13</b>     | 380671               | 6453286               | <b>195</b>  |

**Table 3 Rainwater Tank Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/L)</b> |
|--------------------|----------------------|-----------------------|----------------------|--|
| <b>WATTRS01</b>    | 336655               | 6802942               | Leonora              | <b>0.01</b>  |
| <b>WATTRS02</b>    | 336843               | 6804068               | Leonora              | <b>0.01</b>  |
| <b>WATTRS03 ^</b>  | 352034               | 6596278               | Kalgoorlie           | <b>0.01</b>  |
| <b>WATTRS04 ^</b>  | 352157               | 6596128               | Kalgoorlie           | <b>0.01</b>  |
| <b>WATTRS05</b>    | 352754               | 6597236               | Kalgoorlie           | <b>&lt;0.005</b>   |
| <b>WATTRS06</b>    | 351950               | 6595879               | Kalgoorlie           | <b>0.01</b>  |
| <b>WATTRS07</b>    | 720719               | 6543688               | Southern Cross       | <b>&lt;0.005</b>   |
| <b>WATTRS08</b>    | 720938               | 6543075               | Southern Cross       | <b>&lt;0.007</b>   |
| <b>WATTRS09</b>    | 719963               | 6544548               | Southern Cross       | <b>&lt;0.005</b>   |
| <b>WATTRS10</b>    | 621748               | 6516043               | Merredin             | <b>0.01</b>  |
| <b>WATTRS11</b>    | 621619               | 6516566               | Merredin             | <b>0.01</b>  |
| <b>WATTRS12</b>    | 567121               | 6499734               | Kellerberrin         | <b>&lt;0.005</b>   |
| <b>WATTRS13</b>    | 567853               | 6500062               | Kellerberrin         | <b>0.01</b>  |
| <b>WATTRS14</b>    | 468592               | 6498816               | Northam              | <b>0.01</b>  |
| <b>WATTRS15</b>    | 469392               | 6498694               | Northam              | <b>&lt;0.005</b>   |
| <b>WATTRS16</b>    | 406234               | 6471016               | Midland              | <b>0.01</b>  |
| <b>WATTRS17</b>    | 404494               | 6470844               | Midland              | <b>0.01</b>  |
| <b>WATTRS18</b>    | 382375               | 6450549               | South Fremantle      | <b>0.01</b>  |
| <b>WATTRS19</b>    | 382203               | 6454981               | North Fremantle      | <b>0.01</b>  |



**Table 4 Benthic Sediment Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/kg dry weight)</b> |
|--------------------|----------------------|-----------------------|--|
| <b>P1</b>          | 381834               | 6454392               | <b>19</b>  |
| <b>P2</b>          | 381739               | 6454292               | <b>14</b>  |
| <b>P3</b>          | 381710               | 6454249               | <b>22</b>  |
| <b>P4</b>          | 381692               | 6454234               | <b>10</b>  |
| <b>P5</b>          | 381620               | 6454134               | <b>22</b>  |
| <b>P6</b>          | 381578               | 6454075               | <b>7</b>   |
| <b>P7</b>          | 381517               | 6454014               | <b>8</b>   |
| <b>P8</b>          | 381481               | 6453980               | <b>13</b>  |
| <b>P9</b>          | 391478               | 6453942               | <b>18</b>  |
| <b>P10</b>         | 381416               | 6453892               | <b>21</b>  |
| <b>P11</b>         | 381357               | 6453810               | <b>16</b>  |
| <b>P12</b>         | 381350               | 6453802               | <b>17</b>  |
| <b>DP1</b>         | 381285               | 6453743               | <b>29</b>  |
| <b>DP2</b>         | 381271               | 6453707               | <b>44</b>  |
| <b>DP3</b>         | 381237               | 6453671               | <b>24</b>  |
| <b>DP4</b>         | 381228               | 6453626               | <b>19</b>  |
| <b>DP5</b>         | 381115               | 6453515               | <b>24</b>  |
| <b>DP6</b>         | 381021               | 6453418               | <b>23</b>  |
| <b>DP7</b>         | 381076               | 6453460               | <b>19</b>  |
| <b>CO2</b>         | 381078               | 6454402               | <b>3</b>   |

**Table 5 Static Dust Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/m<sup>2</sup>/month)</b> |
|--------------------|----------------------|-----------------------|----------------------|--|
| <b>SDMTRS01</b>    | 381591               | 6454322               | Fremantle Port       | <b>1.07</b>  |
| <b>SDMTRS02</b>    | 380982               | 6453828               | Fremantle Port       | <b>2.74</b>  |
| <b>SDMTRS03</b>    | 380654               | 6453299               | Fremantle Port       | <b>2.66</b>  |
| <b>SDMTRS04</b>    | 381543               | 6453336               | Fremantle Port       | <b>3.37</b>  |
| <b>SDMTRS05</b>    | 382178               | 6454397               | Fremantle Port       | <b>2.40</b>  |
| <b>SDMTRS06</b>    | 405453               | 6470920               | Midland              | <b>2.20</b>  |
| <b>SDMTRS07</b>    | 406993               | 6470568               | Midland              | <b>0.84</b>  |
| <b>SDMTRS08</b>    | 470535               | 6498088               | Northam              | <b>2.70</b>  |
| <b>SDMTRS09</b>    | 470035               | 6498119               | Northam              | <b>1.00</b>  |
| <b>SDMTRS10</b>    | 567496               | 6499779               | Kellerberrin         | <b>0.50</b>  |
| <b>SDMTRS11</b>    | 568471               | 6499812               | Kellerberrin         | <b>4.00*</b>   |
| <b>SDMTRS12</b>    | 616399               | 6515069               | Merredin             | <b>0.50</b>  |
| <b>SDMTRS13</b>    | 616365               | 6515108               | Merredin             | <b>0.87</b>  |
| <b>SDMTRS14</b>    | 720172               | 6544365               | Southern Cross       | <b>2.30</b>  |
| <b>SDMTRS15</b>    | 720130               | 6544381               | Southern Cross       | <b>2.60</b>  |
| <b>SDMTRS16</b>    | 352094               | 6596375               | Kalgoorlie           | <b>0.10</b>  |
| <b>SDMTRS17</b>    | 348972               | 6593826               | Kalgoorlie           | <b>4.00*</b>   |
| <b>SDMTRS18</b>    | 336308               | 6805100               | Leonora              | <b>3.34</b>  |
| <b>SDMTRS19</b>    | 336275               | 6805150               | Leonora              | <b>1.56</b>  |
| <b>SDMTRS20</b>    | 281777               | 6454719               | Fremantle            | <b>1.40</b>  |
| <b>SDMTRS21</b>    | 382012               | 6453696               | Fremantle            | <b>0.30</b>  |

\*Reduced to National Environment Protection Measure (NEPM) air quality standards

**Table 6 High-volume Air Sampling Lead Baseline Trigger Level**

| <b>Site Reference</b>     | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: <math>\mu\text{g}/\text{m}^3</math>)</b> |
|---------------------------|----------------------|-----------------------|---|
| <b>Passenger Terminal</b> | 381755               | 6453509               | 0.500   |
| <b>Berth 12</b>           | 382306               | 6454502               |   |

**Table 7 Air Quality in Container Sampling Lead Baseline Trigger Level**

| <b>Air Quality in Container Sampling</b> | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: <math>\mu\text{g}/\text{m}^3</math>)</b> |
|--|---|
|  | 20.00   |

## Attachment 3 to Ministerial Statement 905

Change to proposal approved under section 45C of the  
*Environmental Protection Act 1986*


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This Attachment replaces the Key Characteristics Table and Figures 17, 18 and 19 of Attachment 1 amending Schedule 1 of Ministerial Statement 905

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**Proposal: Magellan Lead Carbonate Project**

**Proponent: Rosslyn Hill Mining Pty Ltd**

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**Changes:**

- Increase in disturbance area;
- Establishment of a 'Development Envelope';
- Ability to locate infrastructure as needed within the Development Envelope;
- Increase in capacity of Tailings Storage Facility (TSF);
- Removal of 'Size of orebody'; and
- 'Depth of mine pit' authorised to "Above groundwater table"

**Table 1: Summary of the Proposal**

|                   |   |
|-------------------|---|
| Proposal Title    | Magellan Lead Carbonate Project   |
| Short Description | <p>The development of an open-cut mine, waste rock dump, tailings storage facilities, associated infrastructure, and processing facilities approximately 30 kilometres west of Wiluna.</p> <p>Lead carbonate concentrate produced at the mine will be contained in sealed bulk bags with a double-laminated wall within locked steel shipping containers and transported by road to Leonora and then by rail to the Port of Fremantle, where it will be exported.</p> |

**Table 2: Location and authorised extent of physical and operational elements**

| Element                                | Location                                      | Previously Authorised Extent     | Authorised Extent   |
|--|---|----------------------------------|---|
| Size of ore body                       |   | Not more than 8.2 million tonnes | <b>Removed as not a key characteristic relevant to the environment.</b> |
| Depth of mine pit                      |   | Not more than 50 metres          | <b>Above groundwater table</b>  |
| Area of disturbance (including access) | Figure 18 Coordinates as described in Table 4 | Not more than 405 hectares       | <b>Not more than 456ha within a Development Envelope of 2094ha</b>      |

|  |                             |   |   |
|--|-----------------------------|---|---|
| Major components:<br><ul style="list-style-type: none"> <li>• Open pit</li> <li>• Waste dumps</li> <li>• Infrastructure (plant site water supply, roads, accommodation camp, etc)</li> <li>• Tailings storage facilities</li> </ul> TOTAL AREA | Within Development Envelope | 92 hectares<br>170 hectares<br>58 hectares<br><br>85 hectares<br><br>405 hectares   | <b>124ha</b><br>170ha<br><b>77ha</b><br><br>85 ha<br><br><b>456 ha</b>  |
| Tailings storage facility (2 cells)  | Within Development Envelope | Combined total capacity of 4 million tonnes   | <b>Combined total capacity of 10.4Mt</b>  |
| Water supply:<br><ul style="list-style-type: none"> <li>• Maximum annual requirement</li> </ul>  |                             | 2.5 gigalitres  | 2.5 GL  |
| Lead concentrate transport   | Figure 1                    | Road to Leonora and then rail to the Port of Fremantle in sealed bulk bags within locked steel shipping containers (Figure 1) | Road to Leonora and then rail to the Port of Fremantle in sealed bulk bags within locked steel shipping containers (Figure 1) |

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations**

| Abbreviation | Term           |
|--------------|----------------|
| ha           | hectare        |
| km           | kilometre      |
| GL           | gigalitre      |
| Mt           | Million tonnes |

**Table 4: Development Envelope Coordinates**

GDA 94 (MGA) Zone 50 coordinates to delineate the approved development envelope

| <b>Coordinate No.</b> | <b>Easting</b> | <b>Northing</b> |
|-----------------------|----------------|-----------------|
| 1                     | 795141.29      | 7066150.87      |
| 2                     | 795142.89      | 7065151.25      |
| 3                     | 795141.39      | 7064151.98      |
| 4                     | 795138.85      | 7063650.98      |
| 5                     | 797142.35      | 7063654.46      |
| 6                     | 797139.33      | 7062154.73      |
| 7                     | 795705.59      | 7062152.71      |
| 8                     | 795675.51      | 7060853.20      |
| 9                     | 793641.88      | 7060853.20      |
| 10                    | 793641.87      | 7061652.56      |
| 11                    | 792641.34      | 7061653.48      |
| 12                    | 792640.26      | 7063153.35      |
| 13                    | 791640.69      | 7063153.59      |
| 14                    | 791628.58      | 7063911.66      |
| 15                    | 790821.83      | 7063933.82      |
| 16                    | 790850.90      | 7065161.16      |
| 17                    | 790871.58      | 7066155.95      |
| 18                    | 795141.29      | 7066150.87      |

**Figures (attached) –**

**Figure 17 of Attachment 1 (amending Schedule 1) is deleted and replaced with Figure 17 Transport route and sampling sites - Fremantle Port**

**Figure 18 of Attachment 1 (amending Schedule 1) is deleted and replaced with Figure 18 Proposal Development Envelope**

**Figure 19 of Attachment 1 (amending Schedule 1) is deleted and not replaced.**

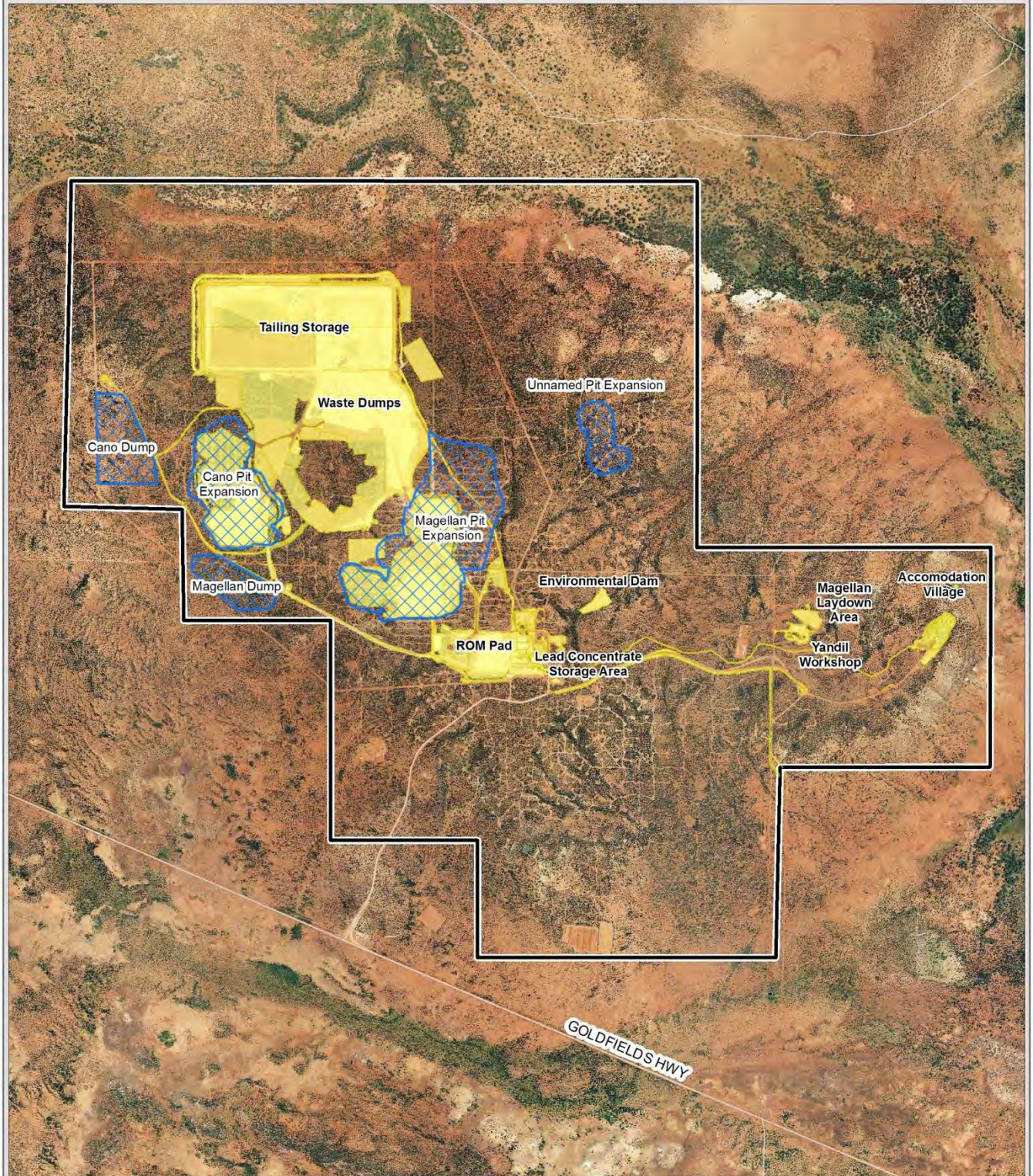
[Signed 9 December 2014]

**Dr Paul Vogel**  
CHAIRMAN  
Environmental Protection Authority  
under notice of delegation dated 24 November 2004



# Magellan Lead Carbonate Project General Project Layout

Map Version: 1.12  
Date: 25/11/2014  
OEPA GIS Section



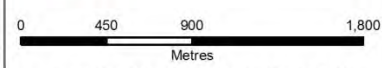
## LEGEND

-  Proposed Expansions (s45C)
-  Existing Site Layout (2014)
-  Proposal Development Envelope

SIM Reference Coordinate:  
119.9431 -26.5176 decimal degrees

**SOURCE DATA**  
Proponent: General Project Layout (2014)  
Landgate: Roads (2013)  
SLIP: Merewether 2844 Feb 2006 Mosaic  
  
Location Path: I:\Projects\lepasu\minor\_projects\gis\20140930\_Magellan\_Lead\_Carbonate\_Project

Disclaimer:  
This map is intended as a generalised interpretation of environmental issues. The information contained on this map is to be considered indicative only and in no event shall the Environmental Protection Authority be liable for any incident or consequential damages resulting from use of the material.  
  
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Projection: Map Grid of Australia Zone 50  
Datum: Geocentric Datum of Australia, 1994  
Scale: 1:35,000 at A4

## LOCALITY MAP



**Figure 18: Proposal Development Envelope**



## Attachment 4 to Ministerial Statement 905

Change to proposal approved under section 45C of the  
*Environmental Protection Act 1986*


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This Attachment replaces Table 4 of Attachment 2 amending Schedule 2 in Ministerial Statement 905.

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**Proposal: Magellan Lead Carbonate Project**

**Proponent: Rosslyn Hill Mining Pty Ltd**

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**Changes:**

- Amended Benthic Sediment Sampling Table

**Table 4 of Attachment 2 is deleted and replaced with:**

Table 4 Benthic Sediment Sampling Lead Baseline Trigger Level (as approved under Condition 8)

| Site Number | GDA94 Easting | GDA94 Northing | Lead Baseline Trigger Level<br>(Unit of Measurement:<br>mg/kg dry weight) |
|-------------|---------------|----------------|---|
| P1          | 381078        | 6454414        | 19  |
| P2          | 381285        | 6453755        | 14  |
| P3          | 381271        | 6453719        | 22  |
| P4          | 381237        | 6453683        | 10  |
| P5          | 381228        | 6453638        | 22  |
| P6          | 381115        | 6453527        | 7   |
| P7          | 381021        | 6453430        | 11  |
| P8          | 381076        | 6453472        | 13  |
| P9          | 381834        | 6454404        | 18  |
| P10         | 381739        | 6454304        | 21  |
| P11         | 381710        | 6454261        | 35  |
| P12         | 381692        | 6454246        | 17  |
| DP1         | 381620        | 6454146        | 29  |
| DP2         | 381578        | 6454087        | 44  |
| DP3         | 381517        | 6454026        | 24  |
| DP4         | 381481        | 6453992        | 19  |
| DP5         | 381478        | 6453954        | 43  |
| DP6         | 381416        | 6453904        | 23  |
| DP7         | 381357        | 6453822        | 19  |
| CO2         | 381350        | 6453814        | 3   |

[Signed 9 December 2014]

**Dr Paul Vogel**

CHAIRMAN

Environmental Protection Authority

under notice of delegation dated 24 November 2004

## NOTICE OF INTERIM IMPLEMENTATION CONDITIONS

Section 46A  
*Environmental Protection Act 1986*

**Proposal:** Magellan Lead Carbonate Project  
**Proponent:** Rosslyn Hill Mining Pty Ltd  
**Proponent Address:** Suite 1D, 21 Teddington Road, Burswood WA 6100  
**Statement to which this notice relates:** Statement 905 dated 27 July 2012

Pursuant to section 46A(1) of the *Environmental Protection Act 1986*, the following interim implementation conditions in this Notice are to have effect instead of implementation conditions 18-1, 18-2, 18-3, 18-4, and 18-5 of Statement 905 dated 27 July 2012.

These Interim Implementation Conditions are to be read in conjunction with Statement 905 and are to have effect until a further statement is published under section 45(5) as applied by section 46(8) of the *Environmental Protection Act 1986*. All other conditions of Statement 905 continue to have effect.

### **18 Financial Assurance**

- 18-1 As security for the due and punctual observance and performance by the proponent of the requirements of condition 11-1, the proponent shall, prior to removing shipping containers of lead carbonate concentrate from the minesite at any time from the date of publication of this Statement, provide to the CEO, to be replaced every five years in accordance with condition 18-2, a financial assurance for the benefit of both the Minister and the CEO and which is in the form of an unconditional and irrevocable bank guarantee, from a guarantor acceptable to the CEO and in a form acceptable to the CEO, in the amount specified in condition 18-2.
- 18-2 The financial assurance shall be for an initial amount of AU\$5 million and shall be substituted every five years after the provision of the first guarantee with the fixed initial amount of each successive guarantee being indexed to inflation (being the Consumer Price Index, Perth).
- 18-3 In the event that the guarantor referred to in condition 18-1 terminates its liability under the bank guarantee by paying to the Minister or the CEO the balance of the financial assurance remaining unpaid, the CEO will hold the

financial assurance (being the amount paid by the guarantor upon termination), as security for the due and punctual observance and performance by the proponent of the requirements of condition 11-1, in an interest bearing account nominated by the CEO, with the interest accruing for the benefit of the Minister or the CEO.

- 18-4 The financial assurance may be called on or used in accordance with section 86E of the Environmental Protection Act 1986 if the proponent fails to implement the proposal in accordance with condition 11-1.
- 18-5 The financial assurance shall be discharged by the CEO and the Minister when the CEO has given the proponent written notice pursuant to section 86F(1) of the Environmental Protection Act 1986.
- 18-6 The CEO may suspend the requirement for the financial assurance required under condition 18-1 and release the financial assurance if:
- i. the removal of shipping containers of lead carbonate concentrate from the mine-site is suspended; and;
  - ii. the CEO is satisfied that it will be unlikely the proponent will be required to implement the Emergency Response Plan as required under conditions 11-1 or 11-3 during the time that the removal of shipping containers of lead carbonate concentrate from the mine-site is suspended;
- 18-7 If the CEO agrees to suspend the requirement for the financial assurance required under condition 18-6 the suspension will only be for the period of time that the removal of shipping containers of lead carbonate concentrate from the mine-site is suspended.
- 18-8 Prior to recommencing the removal of shipping containers of lead carbonate concentrate from the mine-site the proponent shall provide a financial assurance to the CEO in accordance with condition 18-1 for the amount specified in condition 18-2 as if the requirement for a financial assurance under condition 18-1 was not suspended.

[Signed 13 May 2015]

**HON ALBERT JACOB MLA  
MINISTER FOR ENVIRONMENT; HERITAGE**

## Attachment 6 to Ministerial Statement 905

### Change to proposal approved under section 45C of the *Environmental Protection Act 1986*

This Attachment replaces Schedule 1, Schedule 2 and all previous Attachments of Ministerial Statement 905

**Proposal:** Magellan Lead Carbonate Project, Wiluna

**Proponent:** Rosslyn Hill Mining Pty Ltd

**Changes:**

- Additional clearing for additional pits, Integrated Waste Landform (IWL) and infrastructure
- Increase in total tailings storage capacity
- Co locating tailings within existing waste rock landform to form an IWL
- Change to Short Description of Proposal to include IWL
- Removal of reference to two Tailings Storage Facility cells
- Update to sampling sites and associated lead baseline trigger levels
- Correction of coordinate errors in Table 4 (Now titled Table 8)
- Change to lead baseline trigger level table numbers to maintain numbering sequence
- Update of Figures 1 to 17 to include amended sample site locations
- Update to Figure 18 to include new authorised disturbance footprint

**Table 1: Summary of the Proposal**

|                   |  |
|-------------------|--|
| Proposal Title    | Magellan Lead Carbonate Project, Wiluna  |
| Short Description | <p>The development of an open-cut mine, Integrated Waste Landform, associated infrastructure including existing Tailings Storage Facility and processing facilities approximately 30 kilometres west of Wiluna.</p> <p>Lead carbonate concentrate produced at the mine will be contained in sealed bulk bags with a double-laminated wall within locked steel shipping containers and transported by road to Leonora and then by rail to the Port of Fremantle, where it will be exported.</p> |

**Table 2: Location and authorised extent of physical and operational elements**

| Element  | Location   | Previously Authorised Extent                                  | Authorised Extent  |
|--|--|---|--|
| Area of disturbance (including access)           | Figure 18<br>Coordinates as described in Table 4 | Not more than 456 ha within a Development Envelope of 2094 ha | <b>Not more than 580 ha within a Development Envelope of 2094 ha</b> |
| Major components:<br>• Open pit<br>• Waste dumps | Within Development Envelope                      | 124 ha<br>170 ha  | <b>196 ha<br/>212 ha (including IWL)</b>                             |

| Element   | Location                           | Previously Authorised Extent       | Authorised Extent  |
|---|------------------------------------|------------------------------------|--|
| <ul style="list-style-type: none"> <li>Infrastructure (plant site water supply, roads, accommodation camp, etc)</li> <li>Tailings storage facilities</li> </ul> |                                    | 77 ha                              | <b>87 ha</b>   |
| <b>TOTAL AREA</b>   |                                    | 85 ha                              | 85 ha  |
|   |                                    | 456 ha                             | <b>580 ha</b>  |
| Tailings storage facility (2 cells)   | Within Development Envelope        | Combined total capacity of 10.4 Mt | <b>Removed to allow tailings to be co-located within Integrated Waste Landform</b> |
| <b>Tailings Storage</b>   | <b>Within Development Envelope</b> | Combined total capacity of 10.4 Mt | <b>Total capacity of 16 Mt</b>   |

Note: Text in **bold** in Table 2 indicates a change to the proposal.

**Table 3: Abbreviations**

| Abbreviation | Term      |
|--------------|-----------|
| ha           | hectare   |
| km           | kilometre |
| GL           | gigalitre |

**Table 4: Development Envelope Coordinates**

GDA 94 (MGA) Zone 50 coordinates to delineate the approved development envelope

| Coordinate No. | Easting   | Northing   |
|----------------|-----------|------------|
| 1              | 795141.29 | 7066150.87 |
| 2              | 795142.89 | 7065151.25 |
| 3              | 795141.39 | 7064151.98 |
| 4              | 795138.85 | 7063650.98 |
| 5              | 797142.35 | 7063654.46 |
| 6              | 797139.33 | 7062154.73 |
| 7              | 795705.59 | 7062152.71 |
| 8              | 795675.51 | 7060853.20 |
| 9              | 793641.88 | 7060853.20 |
| 10             | 793641.87 | 7061652.56 |
| 11             | 792641.34 | 7061653.48 |
| 12             | 792640.26 | 7063153.35 |
| 13             | 791640.69 | 7063153.59 |
| 14             | 791628.58 | 7063911.66 |
| 15             | 790821.83 | 7063933.82 |
| 16             | 790850.90 | 7065161.16 |
| 17             | 790871.58 | 7066155.95 |
| 18             | 795141.29 | 7066150.87 |

## Figures (attached)

- Figure 1 Location of the Magellan Lead Carbonate Project, including transport route (specific details of the transport route are identified in Figures 2 – 16).
- Figure 2 Transport route and sampling sites – Wiluna
- Figure 3 Transport route and sampling sites – Wiluna to Leonora
- Figure 4 Transport route and sampling sites – Leonora
- Figure 5 Transport route and sampling sites – Leonora to Kalgoorlie
- Figure 6 Transport route and sampling sites – Kalgoorlie
- Figure 7 Transport route and sampling sites – Kalgoorlie to Southern Cross
- Figure 8 Transport route and sampling sites – Southern Cross
- Figure 9 Transport route and sampling sites – Southern Cross to Merredin to Kellerberrin
- Figure 10 Transport route and sampling sites – Merredin
- Figure 11 Transport route and sampling sites – Kellerberrin to Northam to Midland
- Figure 12 Transport route and sampling sites – Kellerberrin
- Figure 13 Transport route and sampling sites – Northam
- Figure 14 Transport route and sampling sites – Midland
- Figure 15 Transport route and sampling sites – Midland to Fremantle
- Figure 16 Transport route and sampling sites – Fremantle
- Figure 17 Transport route and sampling sites – Fremantle Port
- Figure 18 Proposal Development Envelope

## Table 1 to 7 of Attachment 2, Schedule 2 are deleted and replaced with:

- Table 5 Soil Sampling Lead Baseline Trigger Level
- Table 6 Drainage Sump Sampling Lead Baseline Trigger Level
- Table 7 Rainwater Tank Sampling Lead Baseline Trigger Level
- Table 8 Benthic Sediment Sampling Lead Baseline Trigger Level
- Table 9 Static Dust Sampling Lead Baseline Trigger Level
- Table 10 High-volume Air Sampling Lead Baseline Trigger Level
- Table 11 Air Quality in Container Sampling Lead Baseline Trigger Level

Note: Text in **bold** in Tables 5, 7, and 10 indicates a change to location of sampling site. Text in bold in Table 8 indicates a correction of coordinates.

[Signed 19 August 2016]

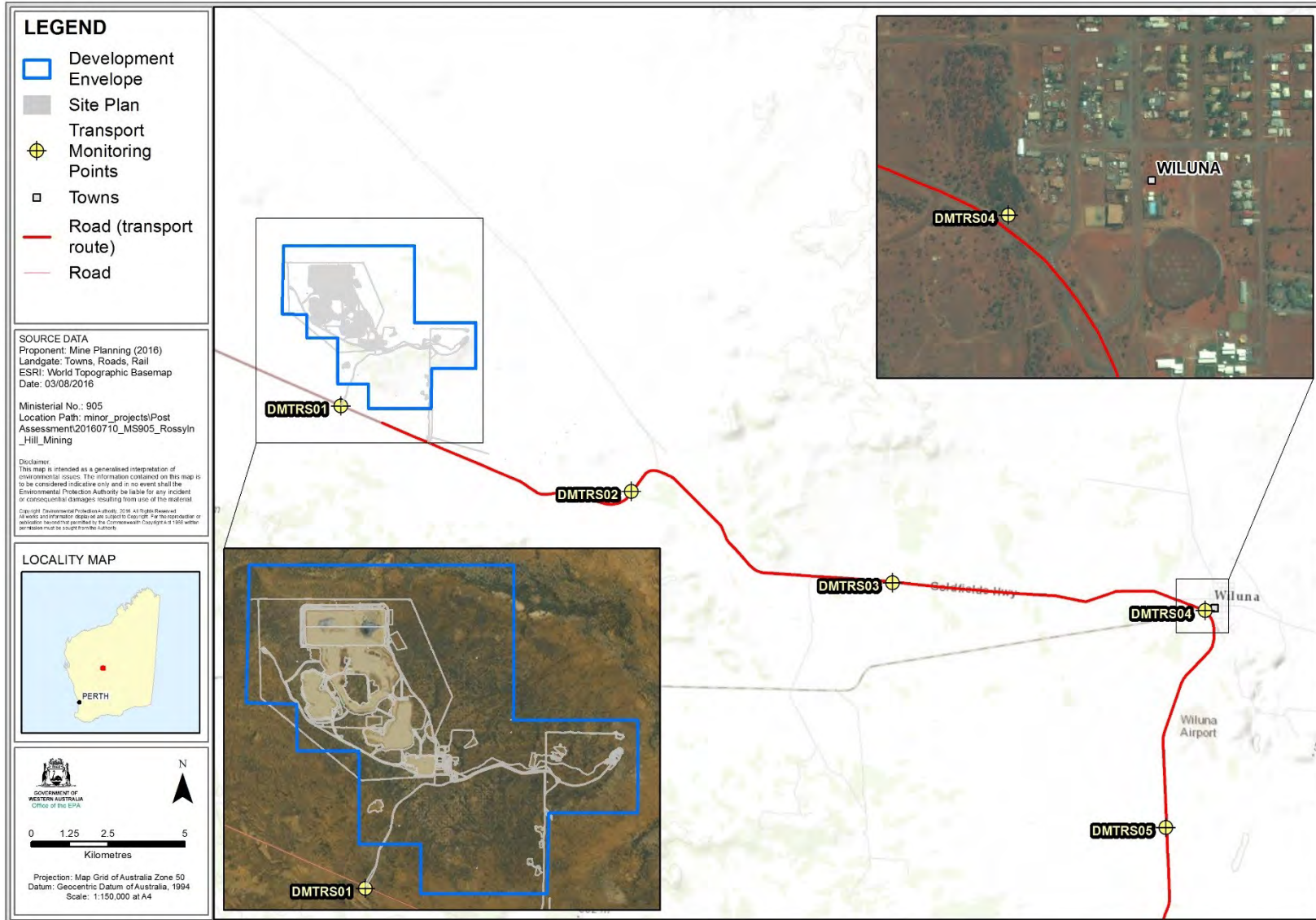
**Dr Tom Hatton**  
CHAIRMAN  
Environmental Protection Authority  
under delegated authority

Approval date: \_\_\_\_\_

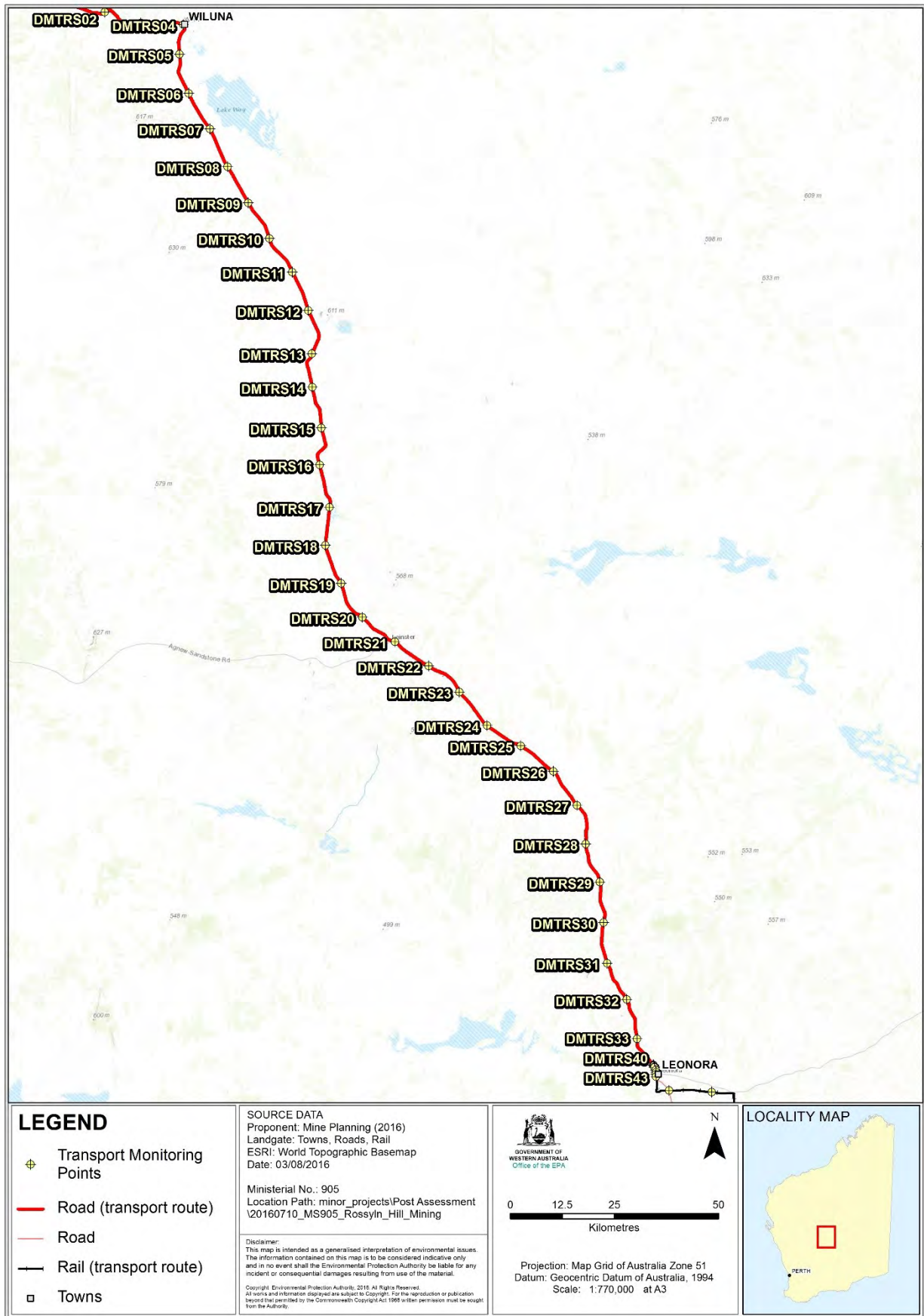


**Figure 1 Location of the Magellan Lead Carbonate Project, including transport route (specific details of the transport route are identified in Figures 2 – 16).**





**Figure 2 Transport route and sampling sites – Wiluna**



**Figure 3 Transport route and sampling sites – Wiluna to Leonora**

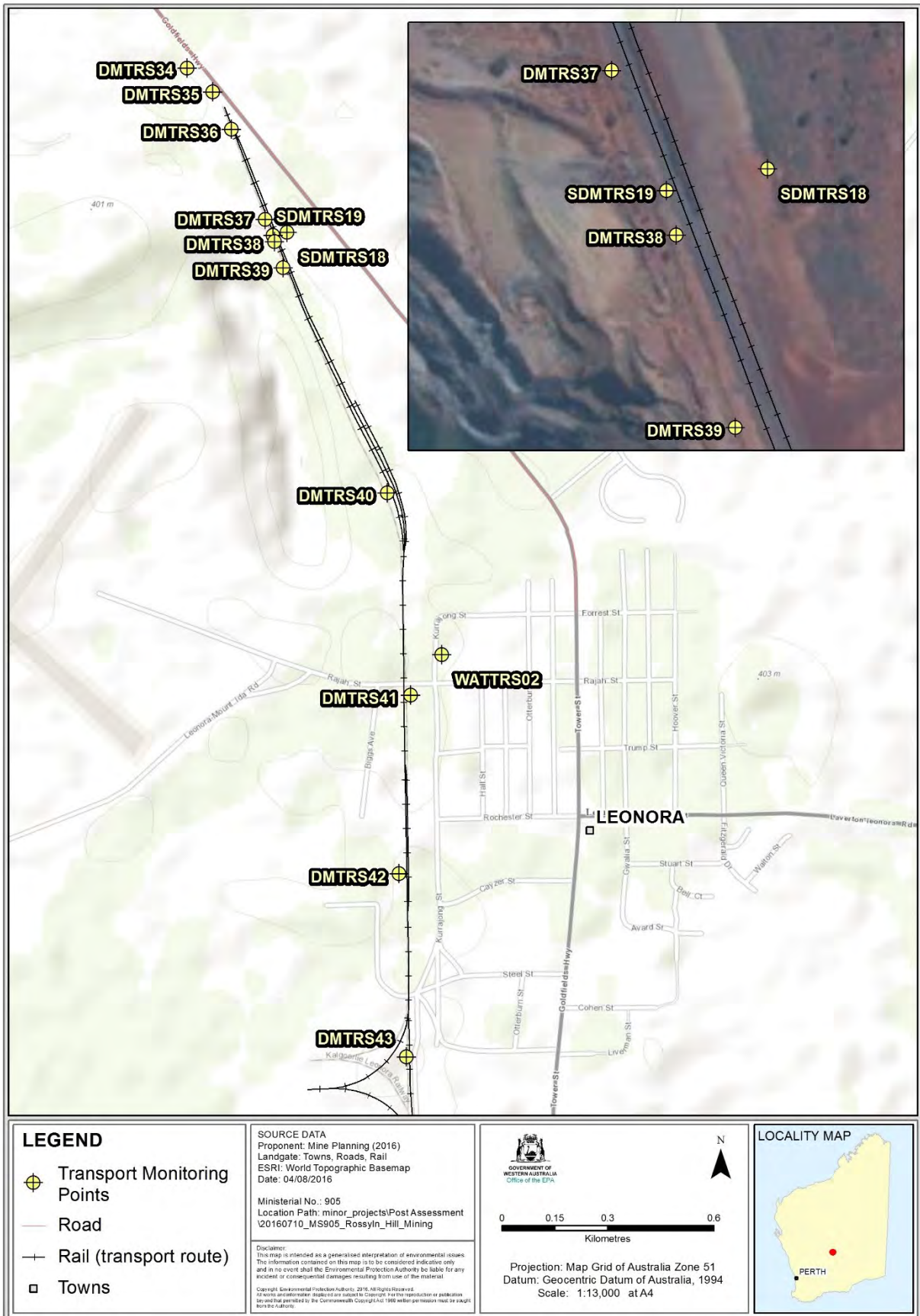
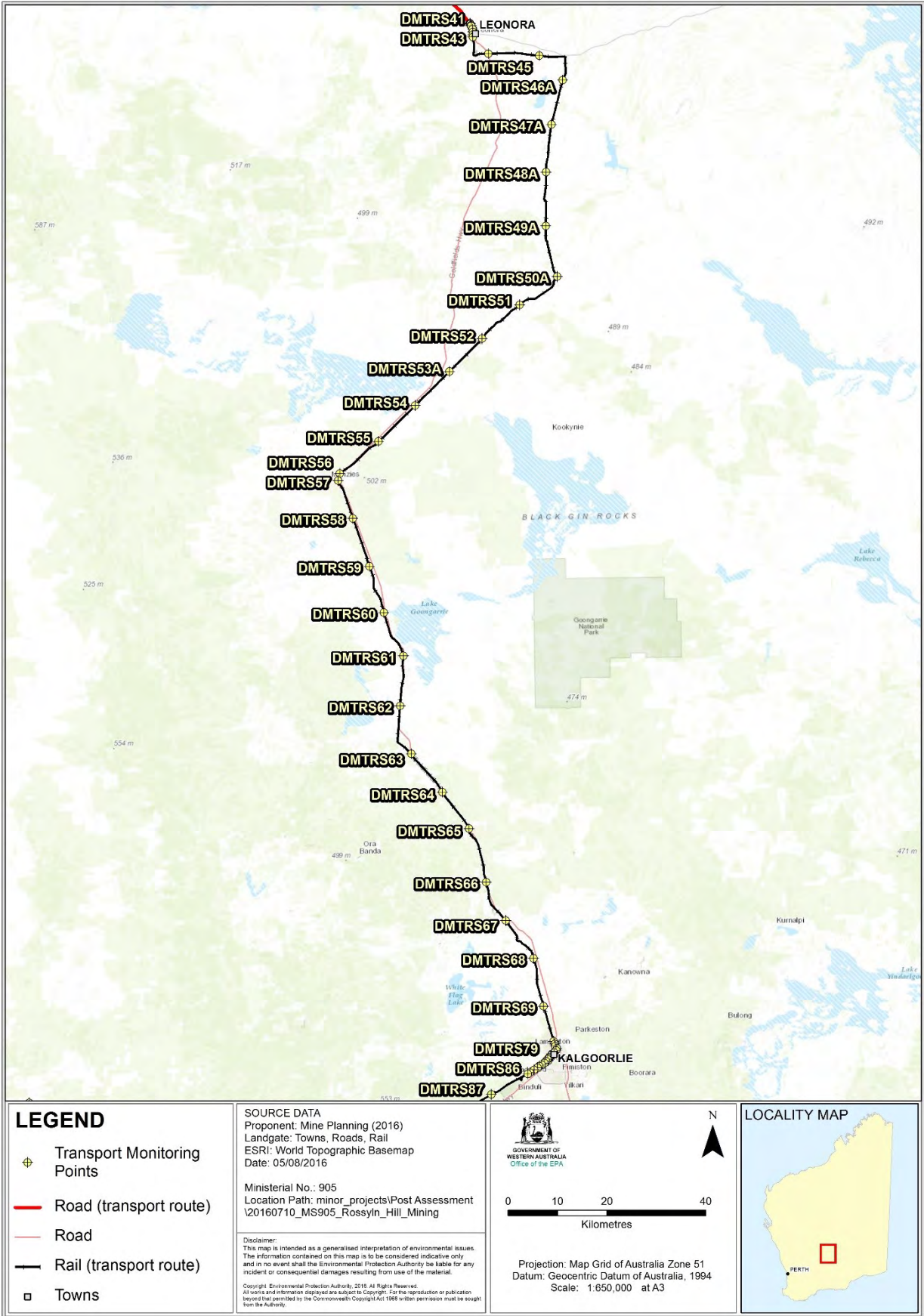


Figure 4 Transport route and sampling sites – Leonora



**Figure 5 Transport route and sampling sites – Leonora to Kalgoorlie**

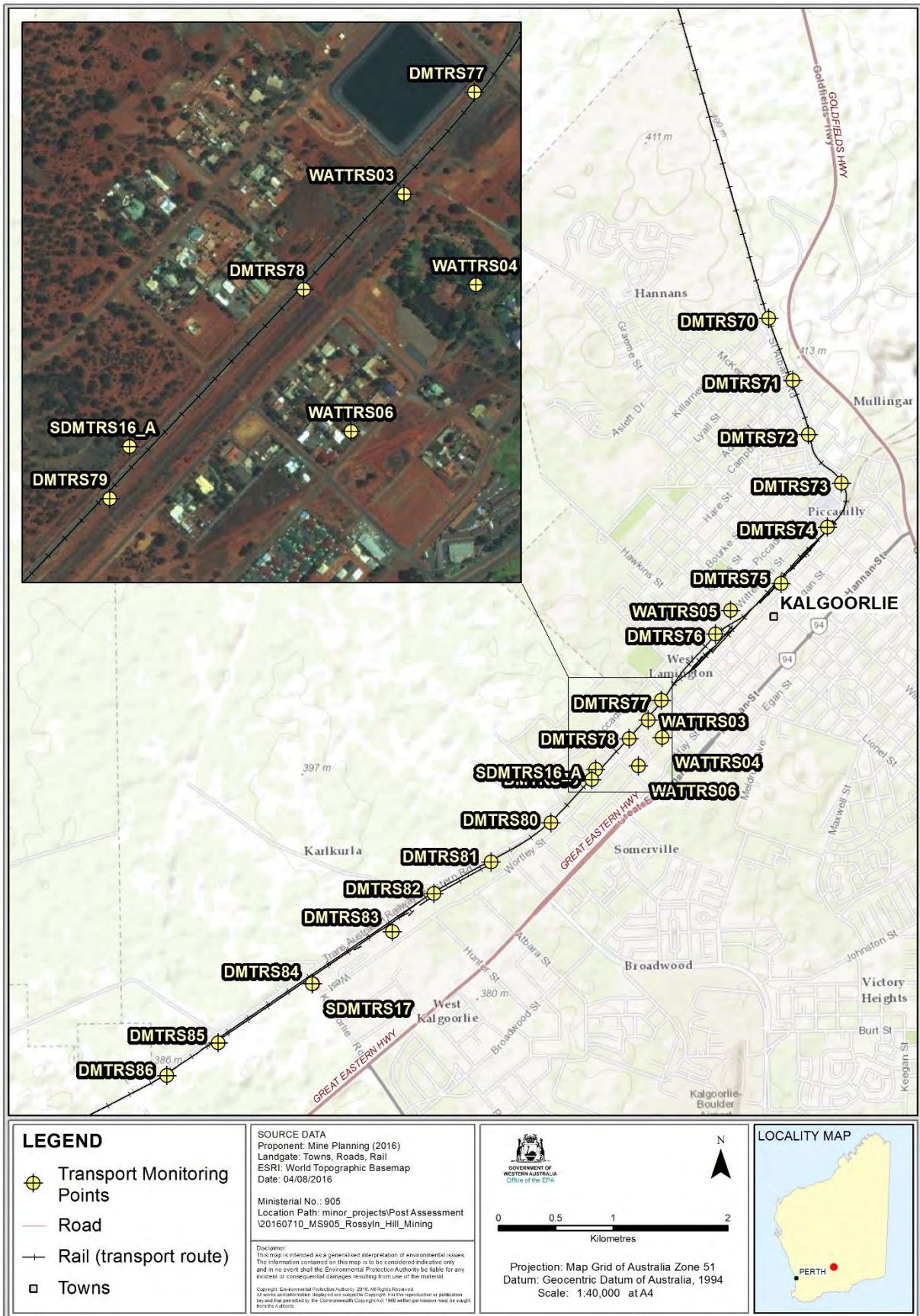


Figure 6 Transport route and sampling sites – Kalgoorlie

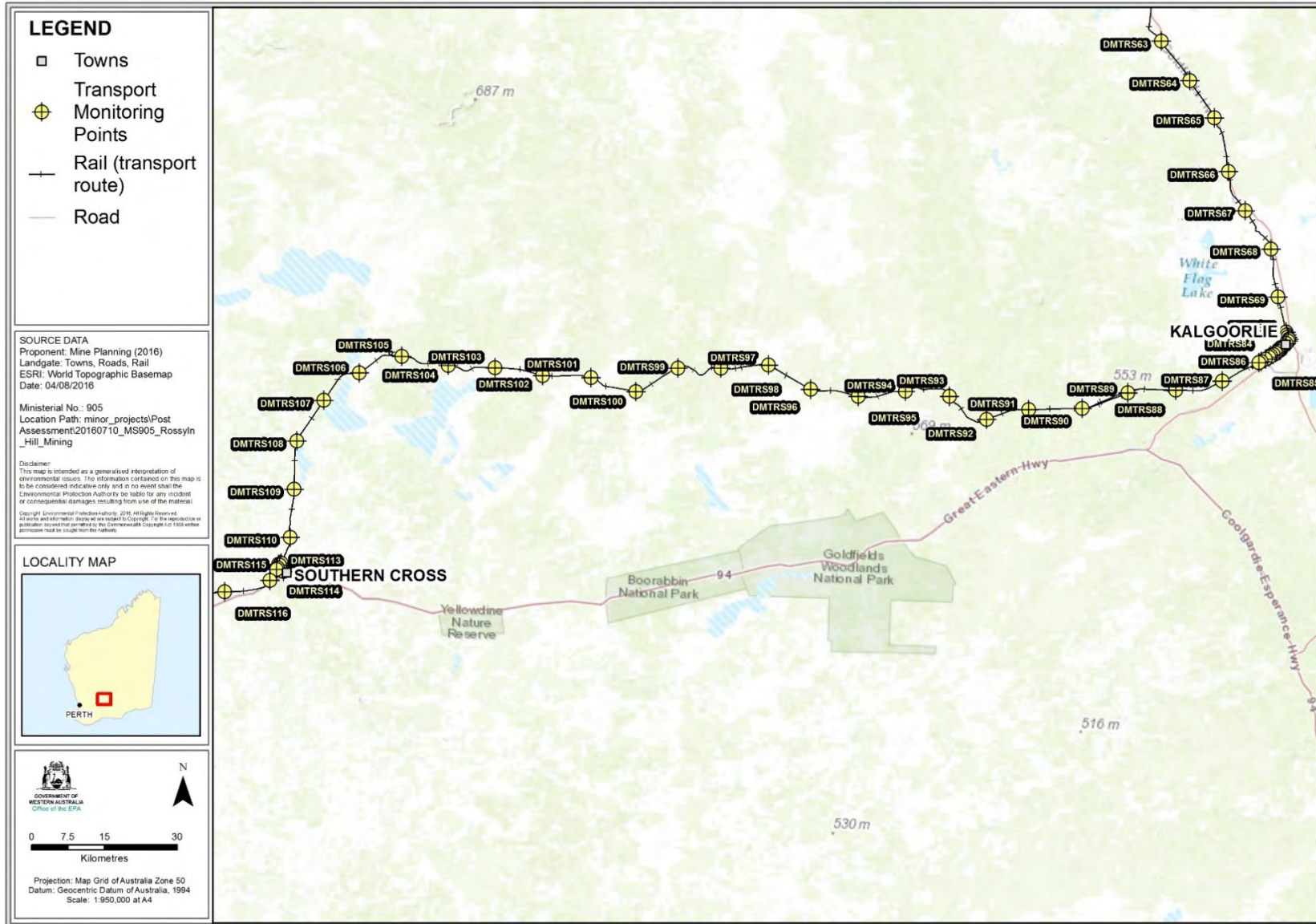
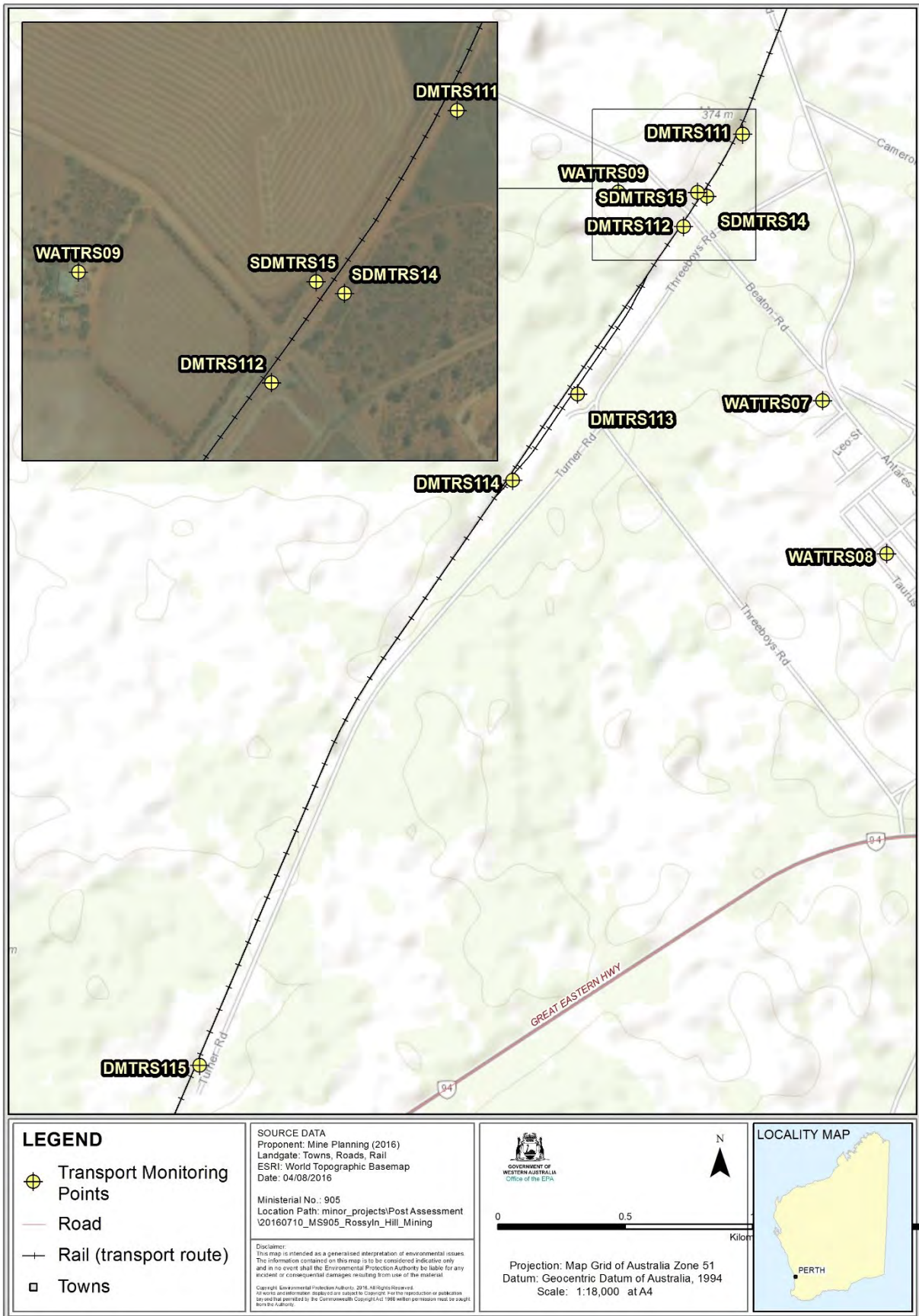


Figure 7 Transport route and sampling sites – Kalgoorlie to Southern Cross



**Figure 8 Transport route and sampling sites – Southern Cross**



Figure 9 Transport route and sampling sites – Southern Cross to Merredin to Kellerberrin



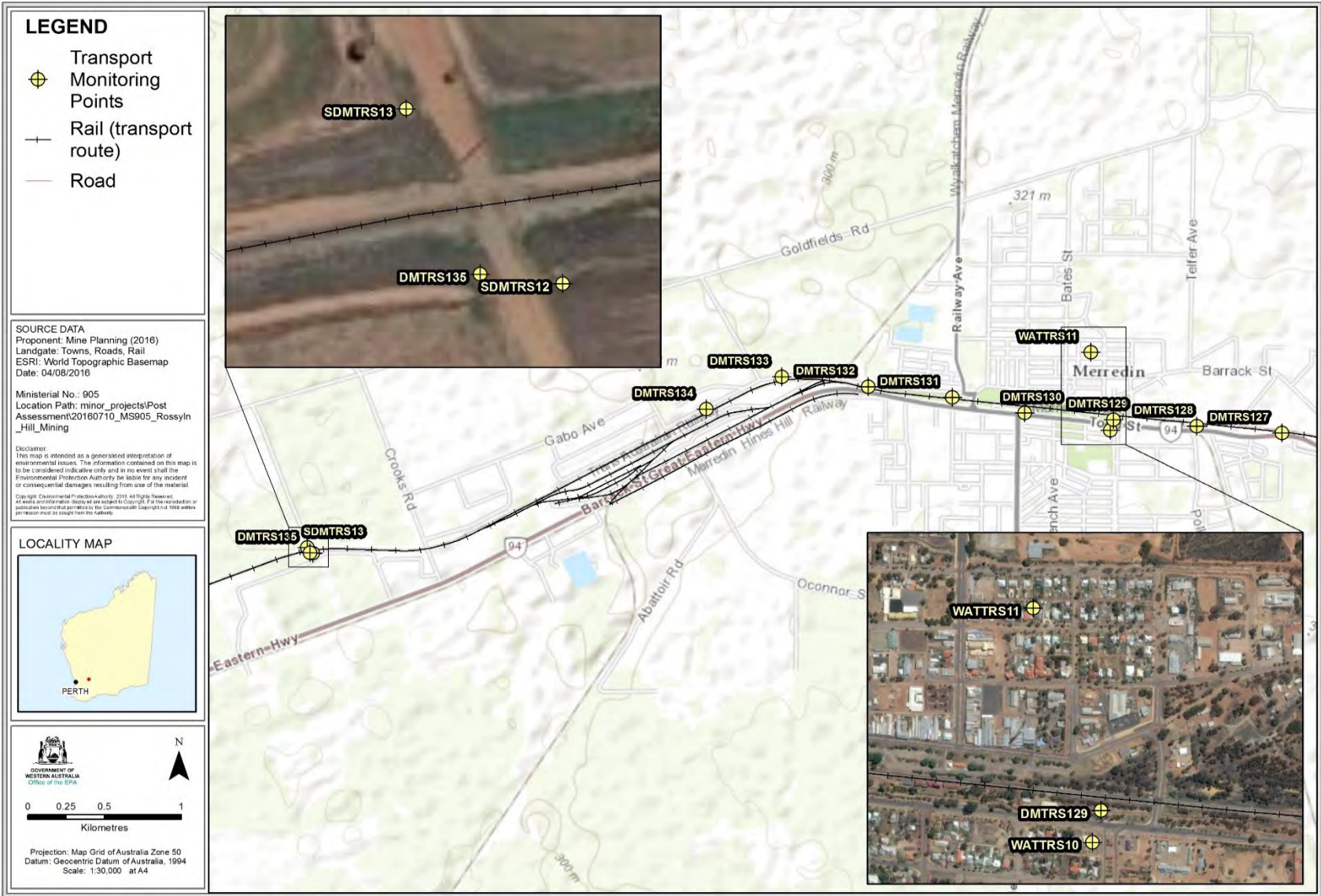


Figure 10 Transport route and sampling sites – Merredin

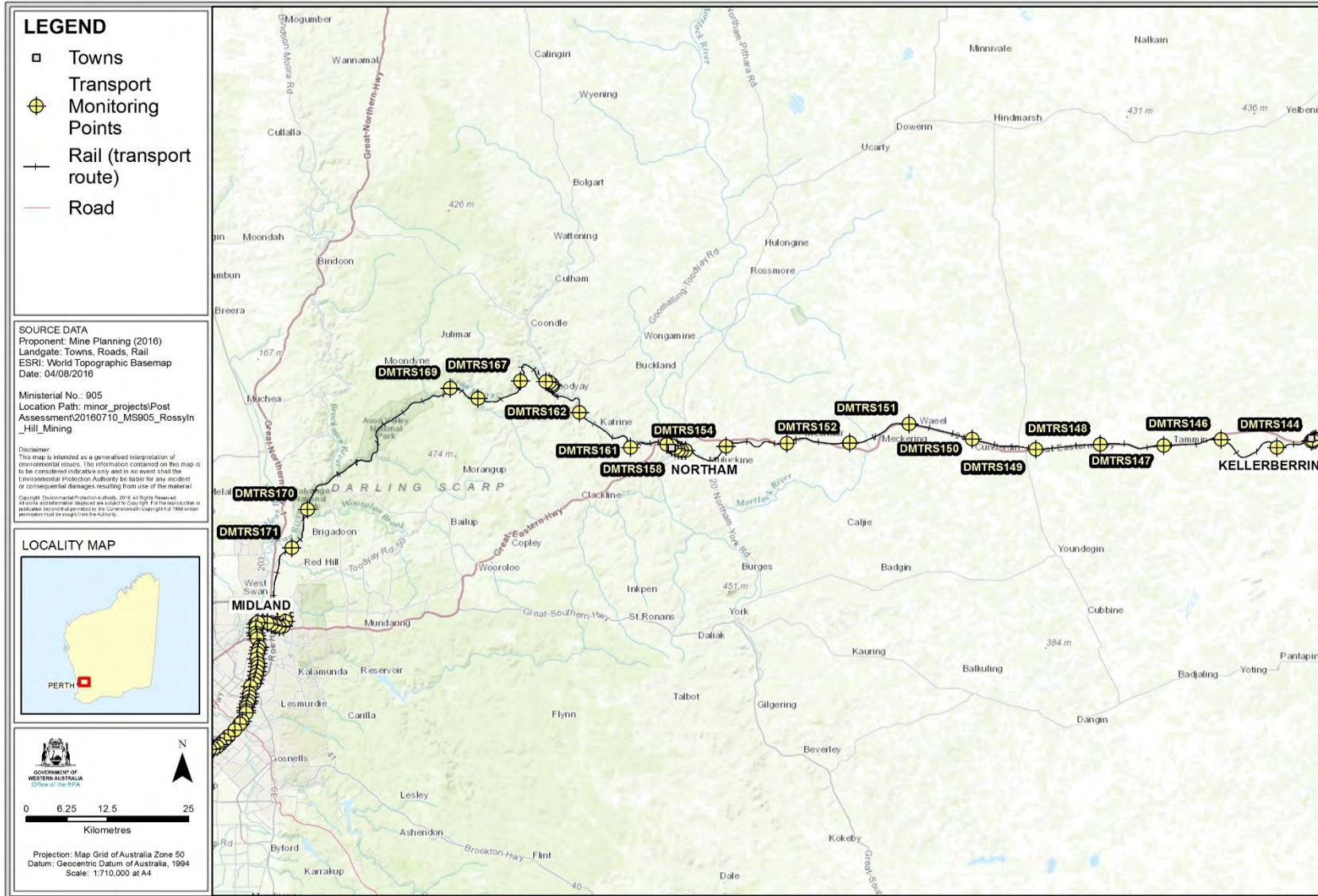


Figure 11 Transport route and sampling sites – Kellerberrin to Northam to Midland



Figure 12 Transport route and sampling sites – Kellerberrin

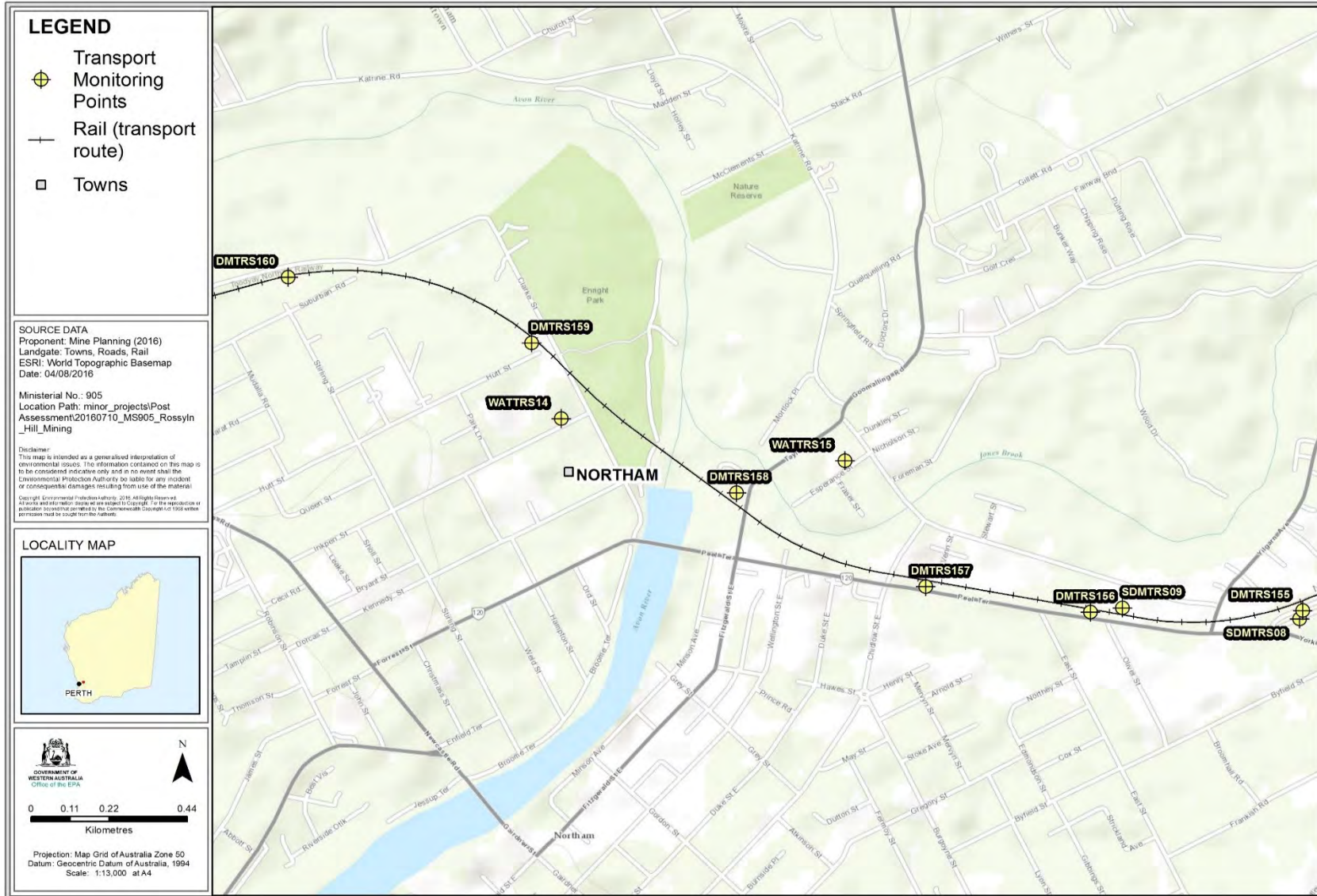


Figure 13 Transport route and sampling sites – Northam

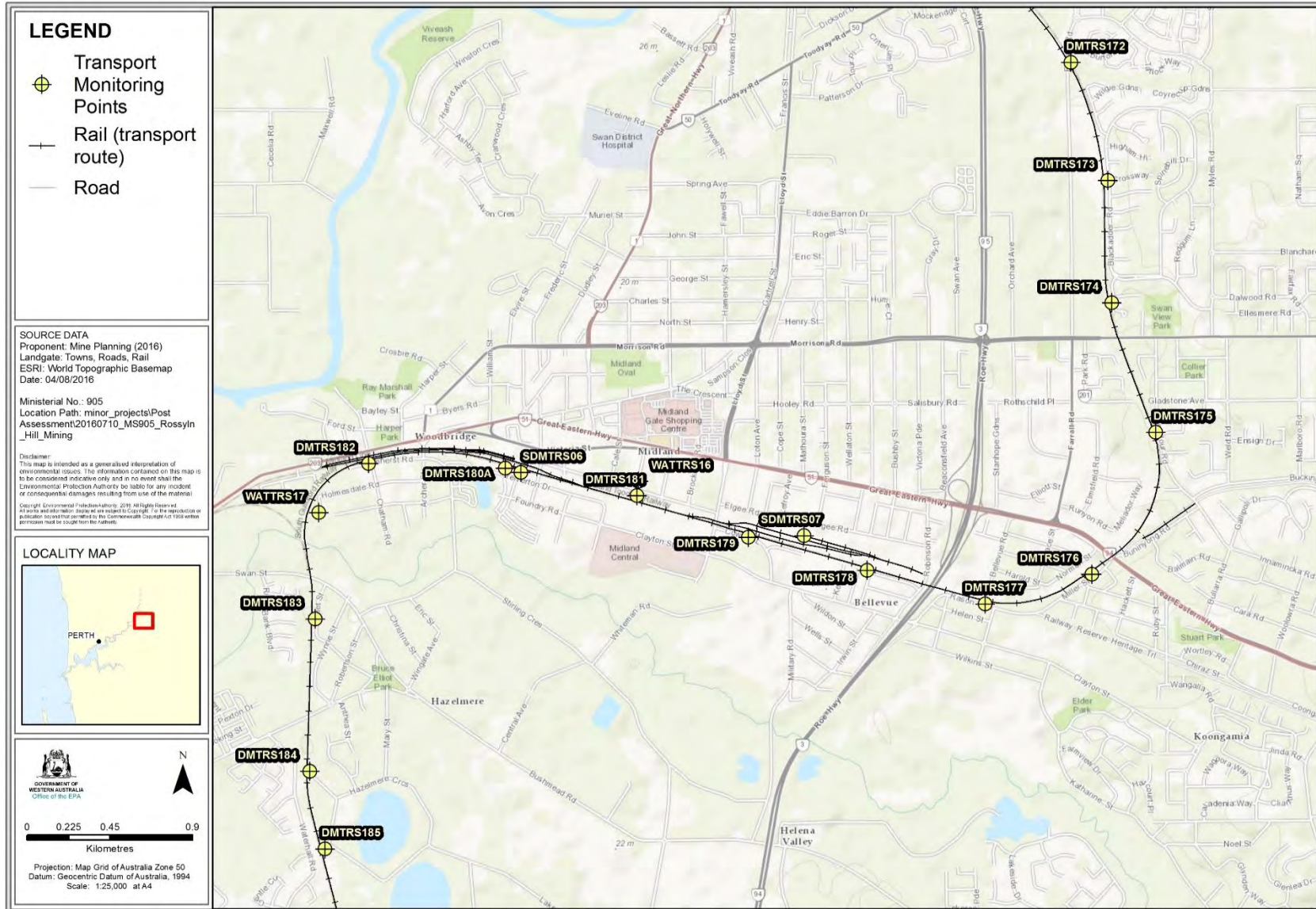


Figure 14 Transport route and sampling sites – Midland

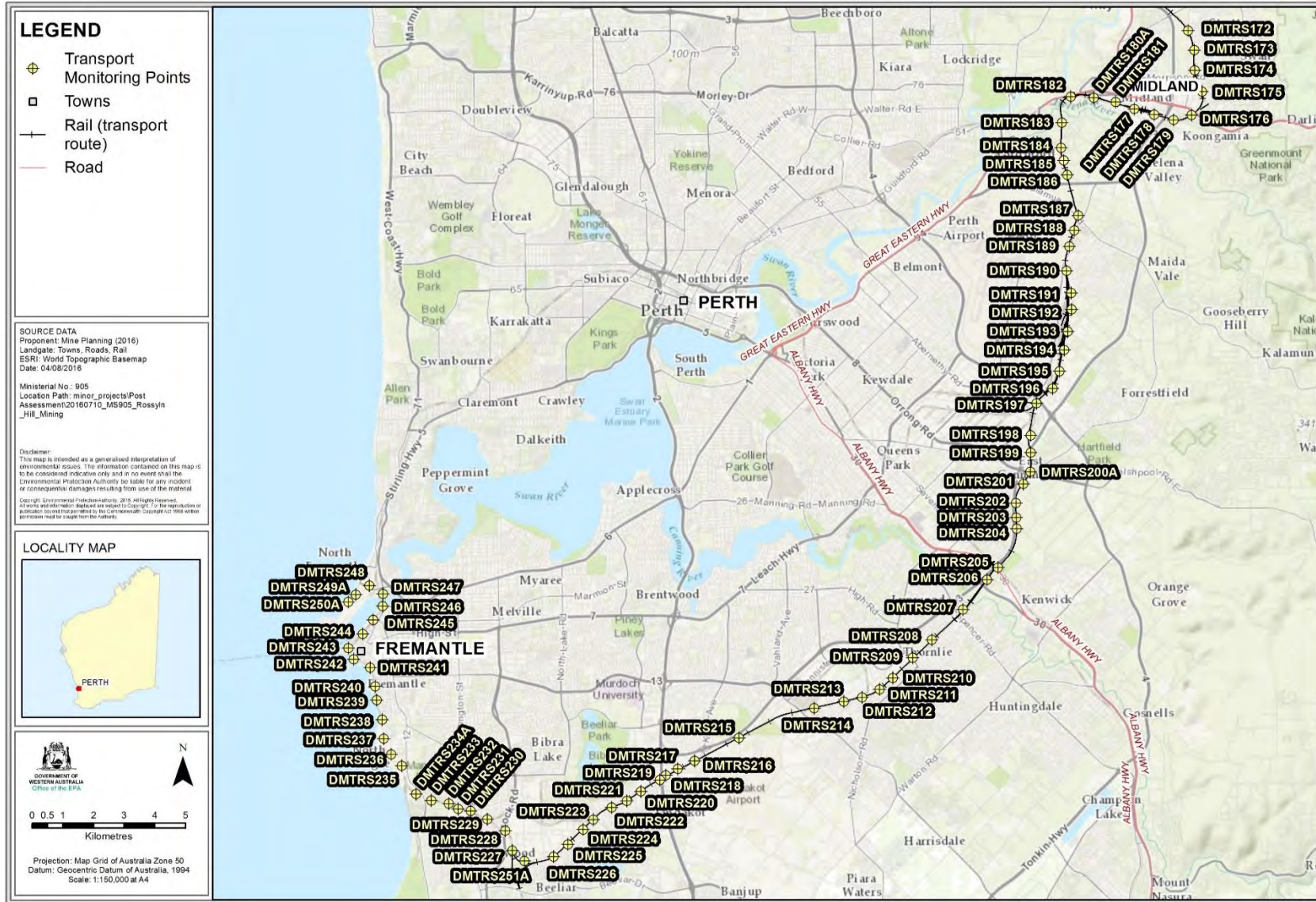


Figure 15 Transport route and sampling sites – Midland to Fremantle

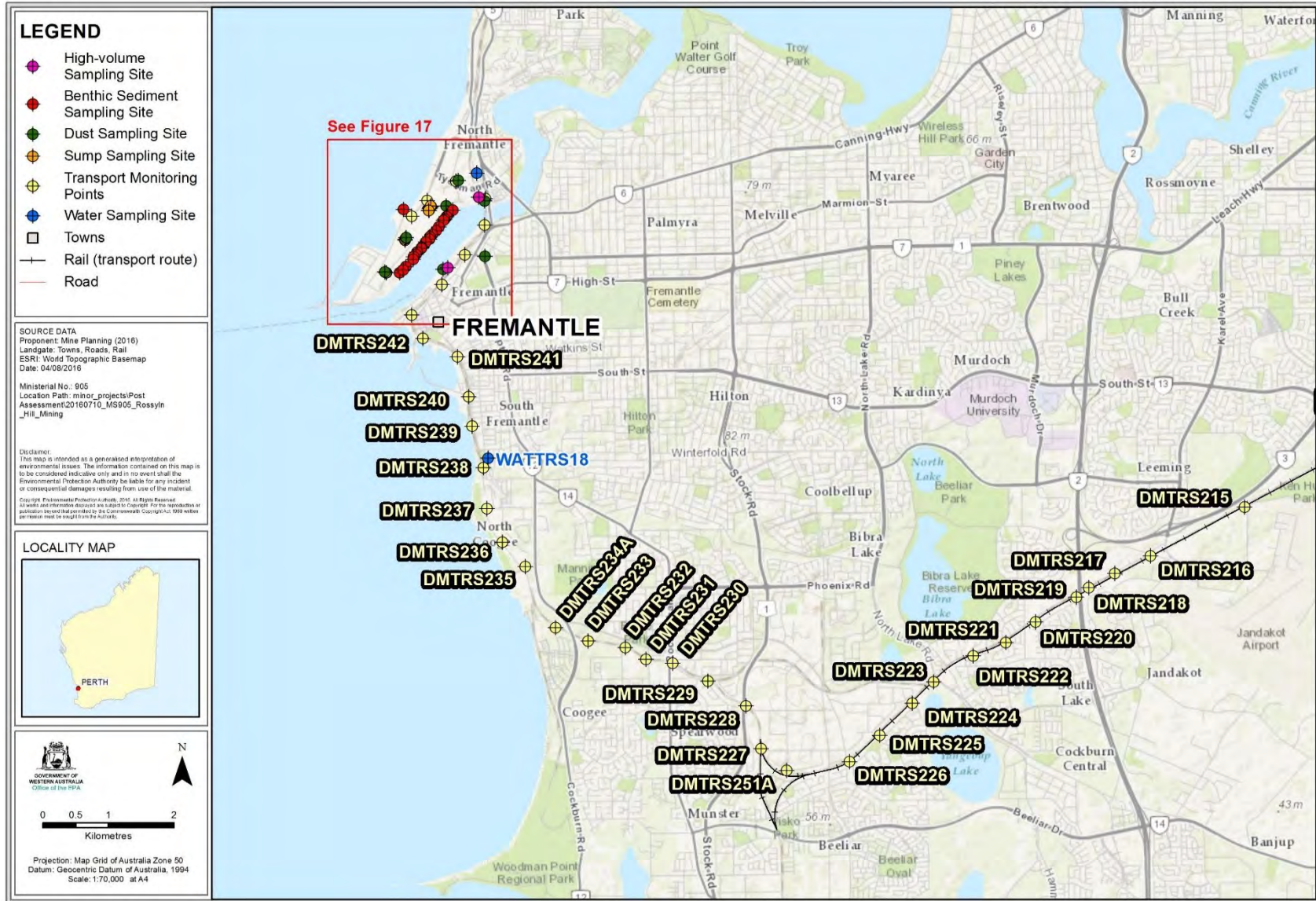


Figure 16 Transport route and sampling sites – Fremantle

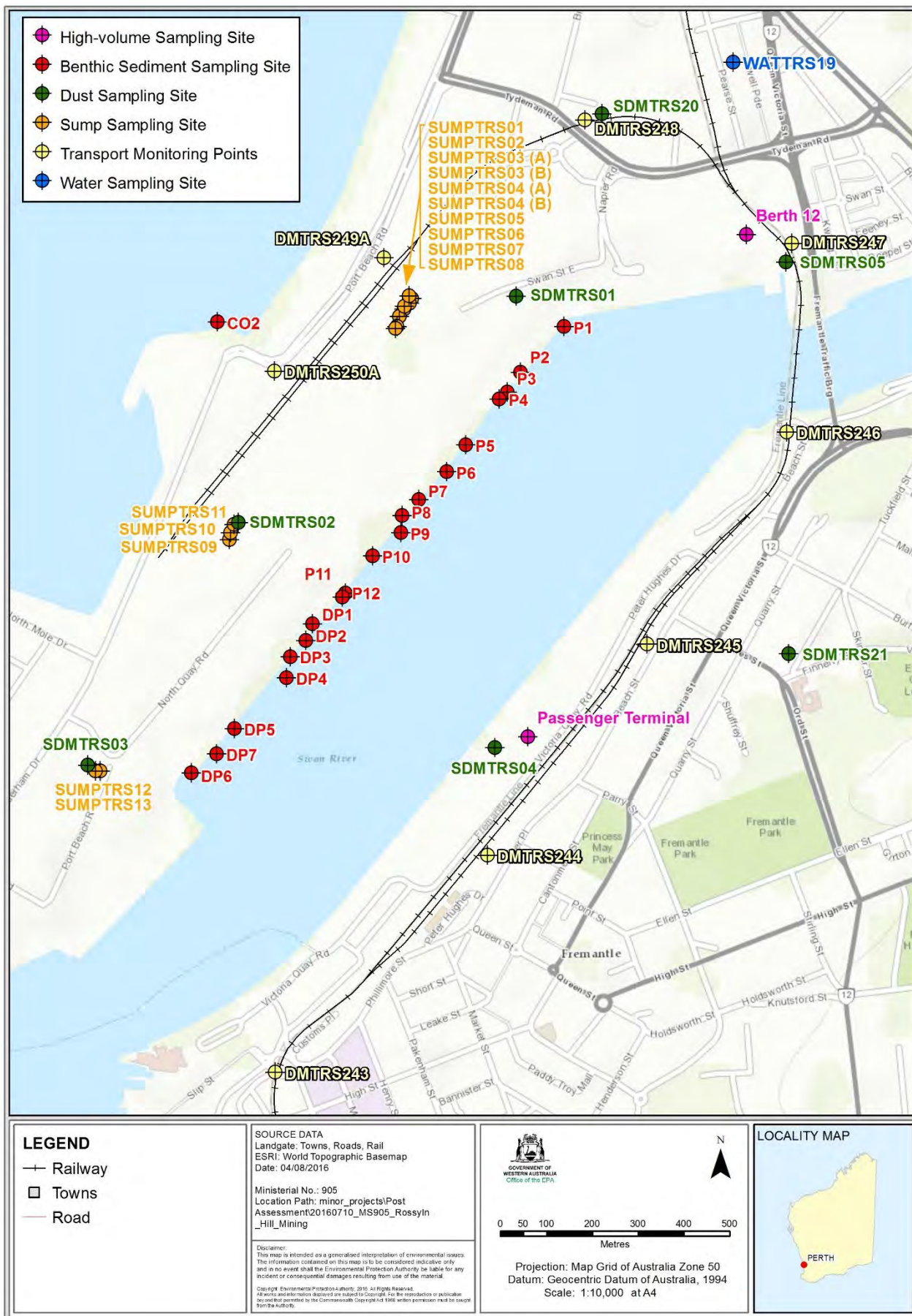
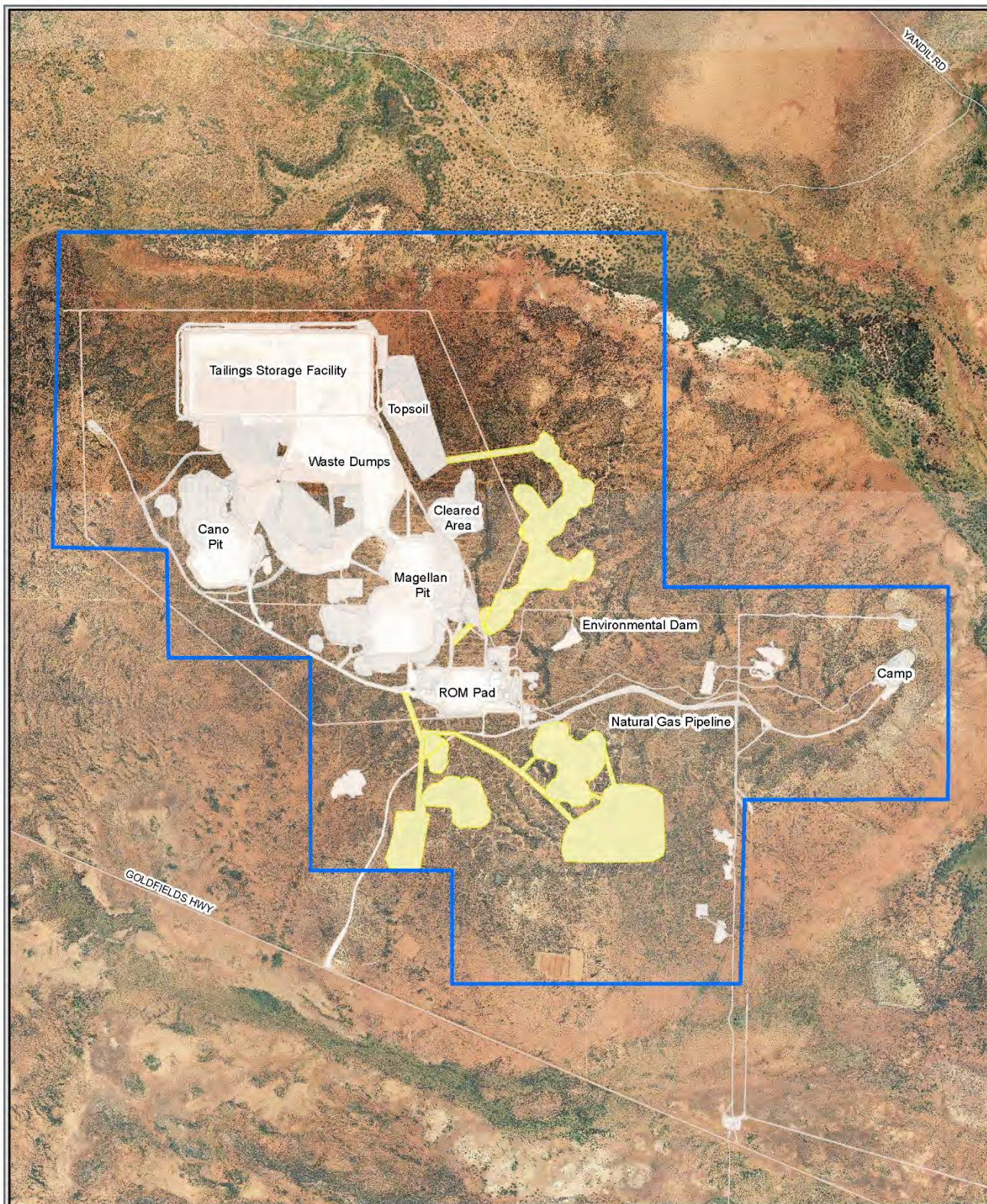


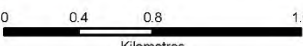



Figure 17 Transport route and sampling sites – Fremantle Port





|   |   |  |   |
|---|---|--|---|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li><span style="border: 2px solid blue; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Development Envelope</li> <li><span style="background-color: yellow; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Proposed Disturbance Footprint</li> <li><span style="border: 1px solid gray; display: inline-block; width: 15px; height: 10px; margin-right: 5px;"></span> Approved Disturbance Footprint</li> <li><span style="border-bottom: 1px solid gray; display: inline-block; width: 15px; margin-right: 5px;"></span> Roads</li> </ul> | <p><b>SOURCE DATA</b><br/>         Proponent: Mine Planning (2016)<br/>         SLIP: Mt Bartle 2845 and Mereweather 2844<br/>         Feb 2006 Mosaic<br/>         Date: 28/07/2016</p> <p>Ministerial No.: 905<br/>         Location Path: minor_projects\Post Assessment<br/>         \20160710_MS905_Rosslyn_Hill_Mining</p> <p><small>Disclaimer:<br/>         This map is intended as a generalised interpretation of environmental issues. The information contained on this map is to be considered indicative only and in no event shall the Environmental Protection Authority be liable for any incident or consequential damages resulting from use of the material.</small></p> <p><small>Copyright: Environmental Protection Authority, 2013. All Rights Reserved. All rights and information are subject to Copyright. For the reproduction or publication of it that permitted by the Commonwealth Copyright Act 1969 written permission must be sought from the copyright.</small></p> | <p style="text-align: center;"><br/>         GOVERNMENT OF<br/>         WESTERN AUSTRALIA<br/>         Office of the EPA</p> <p style="text-align: right;">N<br/> </p> <p style="text-align: center;">0    0.4    0.8    1.6<br/> <br/>         Kilometres</p> <p style="text-align: center;">Projection: Map Grid of Australia Zone 50<br/>         Datum: Geocentric Datum of Australia, 1994<br/>         Scale: 1:35,000 at A4</p> | <p><b>LOCALITY MAP</b></p>  <p style="text-align: center;">PERTH</p> |
|---|---|--|---|

**Figure 18 Proposal Development Envelope**

**Table 5 Soil Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|----------------------|---|
| DMTRS01            | 792601               | 7060788               | Mine to Wiluna       | 69  |
| DMTRS02            | 204337               | 7058150               | Mine to Wiluna       | 80  |
| DMTRS03            | 212983               | 7055583               | Mine to Wiluna       | 33  |
| DMTRS04            | 223190               | 7055166               | Mine to Wiluna       | 36  |
| DMTRS05            | 222250               | 7048047               | Wiluna to Leonora    | 27  |
| DMTRS06            | 224446               | 7038698               | Wiluna to Leonora    | 24  |
| DMTRS07            | 229544               | 7030123               | Wiluna to Leonora    | 20  |
| DMTRS08            | 233804               | 7021081               | Wiluna to Leonora    | 7   |
| DMTRS09            | 238767               | 7012411               | Wiluna to Leonora    | 13  |
| DMTRS10            | 243845               | 7003851               | Wiluna to Leonora    | 17  |
| DMTRS11            | 249336               | 6995794               | Wiluna to Leonora    | 22  |
| DMTRS12            | 253193               | 6986580               | Wiluna to Leonora    | 11  |
| DMTRS13            | 254002               | 6976213               | Wiluna to Leonora    | 13  |
| DMTRS14            | 254168               | 6968165               | Wiluna to Leonora    | 19  |
| DMTRS15            | 256319               | 6958404               | Wiluna to Leonora    | 17  |
| DMTRS16            | 255879               | 6949558               | Wiluna to Leonora    | 15  |
| DMTRS17            | 258256               | 6939390               | Wiluna to Leonora    | 13  |
| DMTRS18            | 257280               | 6930234               | Wiluna to Leonora    | 40  |
| DMTRS19            | 261054               | 6921087               | Wiluna to Leonora    | 18  |
| DMTRS20            | 266134               | 6912947               | Wiluna to Leonora    | 17  |
| DMTRS21            | 273942               | 6907066               | Wiluna to Leonora    | 28  |
| DMTRS22            | 282066               | 6901260               | Wiluna to Leonora    | 11  |
| DMTRS23            | 289445               | 6895039               | Wiluna to Leonora    | 14  |
| DMTRS24            | 296047               | 6886983               | Wiluna to Leonora    | 16  |
| DMTRS25            | 304145               | 6882116               | Wiluna to Leonora    | 22  |
| DMTRS26            | 311988               | 6875971               | Wiluna to Leonora    | 13  |
| DMTRS27            | 317653               | 6867843               | Wiluna to Leonora    | 38  |
| DMTRS28            | 319760               | 6858614               | Wiluna to Leonora    | 10  |
| DMTRS29            | 323132               | 6849432               | Wiluna to Leonora    | 62  |
| DMTRS30            | 324025               | 6839726               | Wiluna to Leonora    | 20  |
| DMTRS31            | 324912               | 6829969               | Wiluna to Leonora    | 16  |
| DMTRS32            | 329583               | 6821262               | Wiluna to Leonora    | 30  |
| DMTRS33            | 332063               | 6811802               | Wiluna to Leonora    | 19  |
| DMTRS34            | 335984               | 6805570               | Leonora              | 42  |
| DMTRS35            | 336057               | 6805503               | Leonora              | 82  |
| DMTRS36            | 336110               | 6805397               | Leonora              | 205   |
| DMTRS37            | 336206               | 6805142               | Leonora              | 245   |
| DMTRS38            | 336232               | 6805079               | Leonora              | 178   |
| DMTRS39            | 336256               | 6805005               | Leonora              | 72  |
| DMTRS40            | 336551               | 6804368               | Leonora              | 38  |

| Site Number     | AGD84 Easting | AGD84 Northing | Site Location             | Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg) |
|-----------------|---------------|----------------|---------------------------|--|
| DMTRS41         | 336617        | 6803795        | Leonora                   | 40   |
| DMTRS42         | 336585        | 6803290        | Leonora                   | 239  |
| DMTRS43         | 336605        | 6802771        | Leonora                   | 60   |
| DMTRS44         | 339745        | 6799420        | Leonora                   | 35   |
| DMTRS45         | 349997        | 6799036        | Leonora to Menzies        | 23   |
| <b>DMTRS46A</b> | <b>354763</b> | <b>6794092</b> | <b>Leonora to Menzies</b> | <b>12</b>  |
| <b>DMTRS47A</b> | <b>352503</b> | <b>6785122</b> | <b>Leonora to Menzies</b> | <b>12</b>  |
| <b>DMTRS48A</b> | <b>351423</b> | <b>6775442</b> | <b>Leonora to Menzies</b> | <b>11</b>  |
| <b>DMTRS49A</b> | <b>351353</b> | <b>6764592</b> | <b>Leonora to Menzies</b> | <b>12</b>  |
| <b>DMTRS50A</b> | <b>353633</b> | <b>6754342</b> | <b>Leonora to Menzies</b> | <b>11</b>  |
| DMTRS51         | 346074        | 6748590        | Leonora to Menzies        | 23   |
| DMTRS52         | 338468        | 6741780        | Leonora to Menzies        | 15   |
| <b>DMTRS53A</b> | <b>331843</b> | <b>6735142</b> | <b>Leonora to Menzies</b> | <b>6</b>   |
| DMTRS54         | 324914        | 6728260        | Leonora to Menzies        | 24   |
| DMTRS55         | 317510        | 6720956        | Leonora to Menzies        | 26   |
| DMTRS56         | 309668        | 6714507        | Menzies                   | 75   |
| DMTRS57         | 309337        | 6713032        | Menzies                   | 150  |
| DMTRS58         | 312347        | 6705402        | Menzies                   | 25   |
| DMTRS59         | 315688        | 6695726        | Menzies to Kalgoorlie     | 10   |
| DMTRS60         | 318619        | 6686355        | Menzies to Kalgoorlie     | 19   |
| DMTRS61         | 322535        | 6677589        | Menzies to Kalgoorlie     | 9  |
| DMTRS62         | 321871        | 6667497        | Menzies to Kalgoorlie     | 19   |
| DMTRS63         | 324135        | 6657780        | Menzies to Kalgoorlie     | 14   |
| DMTRS64         | 330424        | 6650050        | Menzies to Kalgoorlie     | 14   |
| DMTRS65         | 335829        | 6642678        | Menzies to Kalgoorlie     | 18   |
| DMTRS66         | 339307        | 6631817        | Menzies to Kalgoorlie     | 40   |
| DMTRS67         | 343244        | 6624024        | Menzies to Kalgoorlie     | 37   |
| DMTRS68         | 348886        | 6616420        | Menzies to Kalgoorlie     | 14   |
| DMTRS69         | 350900        | 6606706        | Menzies to Kalgoorlie     | 19   |
| DMTRS70         | 352947        | 6599621        | Kalgoorlie                | 56   |
| DMTRS71         | 353157        | 6599081        | Kalgoorlie                | 45   |
| DMTRS72         | 353293        | 6598608        | Kalgoorlie                | 48   |
| DMTRS73         | 353580        | 6598184        | Kalgoorlie                | 126  |
| DMTRS74         | 353460        | 6597803        | Kalgoorlie                | 89   |
| DMTRS75         | 353056        | 6597310        | Kalgoorlie                | 431  |
| DMTRS76         | 352485        | 6596870        | Kalgoorlie                | 31   |
| DMTRS77         | 352013        | 6596294        | Kalgoorlie                | 44   |
| DMTRS78         | 351730        | 6595959        | Kalgoorlie                | 25   |
| DMTRS79         | 351408        | 6595604        | Kalgoorlie                | 16   |
| DMTRS80         | 351052        | 6595228        | Kalgoorlie                | 87   |
| DMTRS81         | 350529        | 6594887        | Kalgoorlie                | 26   |
| DMTRS82         | 350030        | 6594610        | Kalgoorlie                | 26   |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>         | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|------------------------------|---|
| DMTRS83            | 349668               | 6594280               | Kalgoorlie                   | 25  |
| DMTRS84            | 348970               | 6593827               | Kalgoorlie                   | 35  |
| DMTRS85            | 348150               | 6593310               | Kalgoorlie                   | 14  |
| DMTRS86            | 347704               | 6593025               | Kalgoorlie                   | 61  |
| DMTRS87            | 340351               | 6588890               | Kalgoorlie to Southern Cross | 22  |
| DMTRS88            | 330891               | 6586516               | Kalgoorlie to Southern Cross | 34  |
| DMTRS89            | 321073               | 6585417               | Kalgoorlie to Southern Cross | 22  |
| DMTRS90            | 311825               | 6581735               | Kalgoorlie to Southern Cross | 12  |
| DMTRS91            | 300862               | 6580906               | Kalgoorlie to Southern Cross | 18  |
| DMTRS92            | 292318               | 6578425               | Kalgoorlie to Southern Cross | 14  |
| DMTRS93            | 284475               | 6582745               | Kalgoorlie to Southern Cross | 7   |
| DMTRS94            | 275318               | 6583244               | Kalgoorlie to Southern Cross | 2   |
| DMTRS95            | 265620               | 6581718               | Kalgoorlie to Southern Cross | 8   |
| DMTRS96            | 255748               | 6582602               | Kalgoorlie to Southern Cross | 6   |
| DMTRS97            | 246878               | 6587146               | Kalgoorlie to Southern Cross | 18  |
| DMTRS98            | 237048               | 6585983               | Kalgoorlie to Southern Cross | 28  |
| DMTRS99            | 228273               | 6585537               | Kalgoorlie to Southern Cross | 25  |
| DMTRS100           | 219865               | 6580242               | Kalgoorlie to Southern Cross | 15  |
| DMTRS101           | 784204               | 6582784               | Kalgoorlie to Southern Cross | 19  |
| DMTRS102           | 774262               | 6583122               | Kalgoorlie to Southern Cross | 11  |
| DMTRS103           | 764439               | 6584727               | Kalgoorlie to Southern Cross | 15  |
| DMTRS104           | 754825               | 6585270               | Kalgoorlie to Southern Cross | 21  |
| DMTRS105           | 745228               | 6587069               | Kalgoorlie to Southern Cross | 21  |
| DMTRS106           | 736439               | 6583721               | Kalgoorlie to Southern Cross | 11  |
| DMTRS107           | 729154               | 6578066               | Kalgoorlie to Southern Cross | 16  |
| DMTRS108           | 723581               | 6569713               | Kalgoorlie to Southern Cross | 11  |
| DMTRS109           | 723015               | 6559827               | Kalgoorlie to Southern Cross | 19  |
| DMTRS110           | 722175               | 6549959               | Kalgoorlie to Southern Cross | 11  |
| DMTRS111           | 720321               | 6544599               | Southern Cross               | 46  |
| DMTRS112           | 720071               | 6544250               | Southern Cross               | 16  |
| DMTRS113           | 719620               | 6543616               | Southern Cross               | 23  |
| DMTRS114           | 719348               | 6543293               | Southern Cross               | 73  |
| DMTRS115           | 717998               | 6541069               | Southern Cross to Merredin   | 11  |
| DMTRS116           | 708707               | 6538727               | Southern Cross to Merredin   | 21  |
| DMTRS117           | 699394               | 6535646               | Southern Cross to Merredin   | 24  |
| DMTRS118           | 692230               | 6530606               | Southern Cross to Merredin   | 13  |
| DMTRS119           | 683735               | 6528501               | Southern Cross to Merredin   | 5   |
| DMTRS120           | 674547               | 6529272               | Southern Cross to Merredin   | 30  |
| DMTRS121           | 664852               | 6527377               | Southern Cross to Merredin   | 6   |
| DMTRS122           | 658118               | 6525941               | Southern Cross to Merredin   | 5   |
| DMTRS123           | 648845               | 6528299               | Southern Cross to Merredin   | 11  |
| DMTRS124           | 639239               | 6525861               | Southern Cross to Merredin   | 21  |

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>       | <b>Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg)</b> |
|--------------------|----------------------|-----------------------|----------------------------|---|
| DMTRS125           | 633478               | 6520946               | Southern Cross to Merredin | 24  |
| DMTRS126           | 626350               | 6517224               | Southern Cross to Merredin | 13  |
| DMTRS127           | 622727               | 6515875               | Merredin                   | 145   |
| DMTRS128           | 622170               | 6515920               | Merredin                   | 87  |
| DMTRS129           | 621627               | 6515965               | Merredin                   | 92  |
| DMTRS130           | 621049               | 6516009               | Merredin                   | 249   |
| DMTRS131           | 620575               | 6516113               | Merredin                   | 144   |
| DMTRS132           | 620026               | 6516186               | Merredin                   | 34  |
| DMTRS133           | 619463               | 6516250               | Merredin                   | 37  |
| DMTRS134           | 618971               | 6516035               | Merredin                   | 35  |
| DMTRS135           | 616383               | 6515071               | Merredin                   | 35  |
| DMTRS136           | 608074               | 6513020               | Merredin to Kellerberrin   | 30  |
| DMTRS137           | 598952               | 6510400               | Merredin to Kellerberrin   | 33  |
| DMTRS138           | 590313               | 6505464               | Merredin to Kellerberrin   | 52  |
| DMTRS139           | 580667               | 6501381               | Merredin to Kellerberrin   | 620   |
| DMTRS140           | 571264               | 6500221               | Merredin to Kellerberrin   | 48  |
| DMTRS141           | 568854               | 6499952               | Kellerberrin               | 103   |
| DMTRS142           | 568301               | 6499886               | Kellerberrin               | 92  |
| DMTRS143           | 567734               | 6499798               | Kellerberrin               | 66  |
| DMTRS144           | 567202               | 6499706               | Kellerberrin               | 42  |
| DMTRS145           | 561688               | 6498594               | Kellerberrin               | 21  |
| DMTRS146           | 553098               | 6499872               | Kellerberrin to Northam    | 19  |
| DMTRS147           | 544291               | 6498879               | Kellerberrin to Northam    | 196   |
| DMTRS148           | 534476               | 6499095               | Kellerberrin to Northam    | 197   |
| DMTRS149           | 524517               | 6498268               | Kellerberrin to Northam    | 29  |
| DMTRS150           | 514728               | 6499933               | Kellerberrin to Northam    | 28  |
| DMTRS151           | 505021               | 6502291               | Kellerberrin to Northam    | 42  |
| DMTRS152           | 495891               | 6499290               | Kellerberrin to Northam    | 16  |
| DMTRS153           | 486178               | 6499262               | Kellerberrin to Northam    | 23  |
| DMTRS154           | 476825               | 6498775               | Northam                    | 18  |
| DMTRS155           | 470545               | 6498112               | Northam                    | 852   |
| DMTRS156           | 469946               | 6498107               | Northam                    | 43  |
| DMTRS157           | 469481               | 6498181               | Northam                    | 180   |
| DMTRS158           | 468947               | 6498453               | Northam                    | 623   |
| DMTRS159           | 468370               | 6498886               | Northam                    | 25  |
| DMTRS160           | 467683               | 6499077               | Northam                    | 51  |
| DMTRS161           | 462086               | 6498583               | Northam                    | 17  |
| DMTRS162           | 454213               | 6504107               | Toodyay                    | 27  |
| DMTRS163           | 450052               | 6508331               | Toodyay                    | 13  |
| DMTRS164           | 449931               | 6508602               | Toodyay                    | 45  |
| DMTRS165           | 449586               | 6508869               | Toodyay                    | 31  |
| DMTRS166           | 449038               | 6508993               | Toodyay                    | 34  |

| Site Number      | AGD84 Easting | AGD84 Northing | Site Location                    | Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg) |
|------------------|---------------|----------------|----------------------------------|--|
| DMTRS167         | 445114        | 6509116        | Toodyay to Midland               | 26   |
| DMTRS168         | 438536        | 6506333        | Toodyay to Midland               | 18   |
| DMTRS169         | 434313        | 6507964        | Toodyay to Midland               | 26   |
| DMTRS170         | 412264        | 6488820        | Toodyay to Midland               | 17   |
| DMTRS171         | 409865        | 6482707        | Toodyay to Midland               | 99   |
| DMTRS172         | 408444        | 6473166        | Toodyay to Midland               | 160  |
| DMTRS173         | 408646        | 6472518        | Toodyay to Midland               | 58   |
| DMTRS174         | 408667        | 6471847        | Toodyay to Midland               | 28   |
| DMTRS175         | 408906        | 6471135        | Toodyay to Midland               | 37   |
| DMTRS176         | 408559        | 6470356        | Toodyay to Midland               | 43   |
| DMTRS177         | 407979        | 6470192        | Toodyay to Midland               | 61   |
| DMTRS178         | 407336        | 6470376        | Toodyay to Midland               | 212  |
| DMTRS179         | 406692        | 6470559        | Toodyay to Midland               | 100  |
| <b>DMTRS180A</b> | <b>405371</b> | <b>6470937</b> | <b>Toodyay to Midland</b>        | <b>&lt;1</b>   |
| DMTRS181         | 406086        | 6470787        | Midland to Hazelmere             | 273  |
| DMTRS182         | 404626        | 6470964        | Midland to Hazelmere             | 103  |
| DMTRS183         | 404337        | 6470110        | Midland to Hazelmere             | 25   |
| DMTRS184         | 404308        | 6469273        | Midland to Hazelmere             | 15   |
| DMTRS185         | 404390        | 6468848        | Midland to Hazelmere             | 45   |
| DMTRS186         | 404512        | 6468369        | Midland to Hazelmere             | 7  |
| DMTRS187         | 404862        | 6467018        | Hazelmere to Welshpool           | 23   |
| DMTRS188         | 404732        | 6466524        | Hazelmere to Welshpool           | 13   |
| DMTRS189         | 404570        | 6465991        | Hazelmere to Welshpool           | 16   |
| DMTRS190         | 404485        | 6465183        | Hazelmere to Welshpool           | 31   |
| DMTRS191         | 404630        | 6464437        | Hazelmere to Welshpool           | 42   |
| DMTRS192         | 404644        | 6463894        | Hazelmere to Welshpool           | 14   |
| DMTRS193         | 404522        | 6463153        | Hazelmere to Welshpool           | 61   |
| DMTRS194         | 404410        | 6462550        | Hazelmere to Welshpool           | 54   |
| DMTRS195         | 404259        | 6461843        | Hazelmere to Welshpool           | 50   |
| DMTRS196         | 404032        | 6461262        | Hazelmere to Welshpool           | 43   |
| DMTRS197         | 403509        | 6460774        | Welshpool to Canning Vale        | 22   |
| DMTRS198         | 403310        | 6459701        | Welshpool to Canning Vale        | 416  |
| DMTRS199         | 403320        | 6459125        | Welshpool to Canning Vale        | 14   |
| <b>DMTRS200A</b> | <b>403298</b> | <b>6458491</b> | <b>Welshpool to Canning Vale</b> | <b>18</b>  |
| DMTRS201         | 403076        | 6458091        | Welshpool to Canning Vale        | 11   |
| DMTRS202         | 402836        | 6457454        | Welshpool to Canning Vale        | 8  |
| DMTRS203         | 402849        | 6456975        | Welshpool to Canning Vale        | 11   |
| DMTRS204         | 402854        | 6456604        | Welshpool to Canning Vale        | 16   |
| DMTRS205         | 402252        | 6455313        | Welshpool to Canning Vale        | 29   |
| DMTRS206         | 401898        | 6454900        | Welshpool to Canning Vale        | 13   |
| DMTRS207         | 401102        | 6453916        | Welshpool to Canning Vale        | 17   |
| DMTRS208         | 400085        | 6452909        | Welshpool to Canning Vale        | 21   |

| Site Number      | AGD84 Easting | AGD84 Northing | Site Location             | Initial Lead Baseline Trigger Level (Unit of Measurement: mg/kg) |
|------------------|---------------|----------------|---------------------------|--|
| DMTRS209         | 399469        | 6452313        | Welshpool to Canning Vale | 43   |
| DMTRS210         | 398820        | 6451642        | Canning Vale              | 18   |
| DMTRS211         | 398389        | 6451258        | Canning Vale              | 16   |
| DMTRS212         | 397818        | 6450984        | Canning Vale              | 115  |
| DMTRS213         | 397219        | 6450851        | Canning Vale              | 9  |
| DMTRS214         | 396246        | 6450631        | Canning Vale              | 14   |
| DMTRS215         | 393798        | 6449642        | Jandakot                  | 58   |
| DMTRS216         | 392358        | 6448884        | Jandakot                  | 29   |
| DMTRS217         | 391812        | 6448612        | Jandakot                  | 5  |
| DMTRS218         | 391416        | 6448394        | Jandakot                  | 7  |
| DMTRS219         | 391227        | 6448243        | South Lake                | 9  |
| DMTRS220         | 390603        | 6447858        | South Lake                | 18   |
| DMTRS221         | 390146        | 6447541        | South Lake                | 9  |
| DMTRS222         | 389649        | 6447334        | South Lake                | 13   |
| DMTRS223         | 389047        | 6446927        | South Lake                | 9  |
| DMTRS224         | 388721        | 6446598        | Yangebup                  | 10   |
| DMTRS225         | 388223        | 6446100        | Yangebup                  | 11   |
| DMTRS226         | 387758        | 6445689        | Yangebup                  | 18   |
| DMTRS227         | 386408        | 6445893        | Yangebup                  | 216  |
| DMTRS228         | 386174        | 6446557        | Yangebup                  | 55   |
| DMTRS229         | 385594        | 6446941        | Spearwood                 | 39   |
| DMTRS230         | 385054        | 6447217        | Spearwood                 | 58   |
| DMTRS231         | 384648        | 6447279        | Spearwood                 | 18   |
| DMTRS232         | 384332        | 6447460        | Spearwood                 | 18   |
| DMTRS233         | 383762        | 6447563        | Spearwood                 | 60   |
| <b>DMTRS234A</b> | <b>383266</b> | <b>6447769</b> | <b>Coogee</b>             | <b>9</b>   |
| DMTRS235         | 382800        | 6448720        | Coogee                    | 86   |
| DMTRS236         | 382454        | 6449098        | Coogee                    | 18   |
| DMTRS237         | 382216        | 6449618        | Coogee                    | 1500   |
| DMTRS238         | 382162        | 6450255        | Fremantle                 | 47   |
| DMTRS239         | 381991        | 6450903        | Fremantle                 | 810  |
| DMTRS240         | 381935        | 6451357        | Fremantle                 | 150  |
| DMTRS241         | 381768        | 6451977        | Fremantle                 | 219  |
| DMTRS242         | 381236        | 6452265        | Fremantle                 | 170  |
| DMTRS243         | 381065        | 6452628        | Fremantle                 | 139  |
| DMTRS244         | 381528        | 6453102        | Fremantle                 | 360  |
| DMTRS245         | 381876        | 6453562        | Fremantle                 | 157  |
| DMTRS246         | 382181        | 6454025        | Fremantle                 | 747  |
| DMTRS247         | 382192        | 6454436        | Fremantle                 | 128  |
| DMTRS248         | 381741        | 6454706        | Fremantle                 | 42   |
| <b>DMTRS249A</b> | <b>381302</b> | <b>6454405</b> | <b>Fremantle</b>          | <b>15</b>  |
| <b>DMTRS250A</b> | <b>381063</b> | <b>6454158</b> | <b>Fremantle</b>          | <b>17</b>  |

| Site Number | AGD84 Easting | AGD84 Northing | Site Location | Initial Lead Baseline Trigger Level<br>(Unit of Measurement: mg/kg) |
|-------------|---------------|----------------|---------------|---|
| DMTRS251A   | 386797        | 6445554        | Yangebup      | 12  |

**Table 6 Drainage Sump Sampling Lead Baseline Trigger Level**

| Site Number   | AGD84 Easting | AGD84 Northing | Initial Lead Baseline Trigger Level<br>(Unit of Measurement: mg/kg) |
|---------------|---------------|----------------|---|
| SUMPTRS01     | 381363        | 6454316        | 56  |
| SUMPTRS02     | 381358        | 6454306        | 96  |
| SUMPTRS03 (A) | 381346        | 6454293        | 70  |
| SUMPTRS03 (B) | 381346        | 6454293        | 106   |
| SUMPTRS04 (A) | 381336        | 6454277        | 69  |
| SUMPTRS04 (B) | 381336        | 6454277        | 102   |
| SUMPTRS05     | 381331        | 6454255        | 150   |
| SUMPTRS06     | 381347        | 6454299        | 559   |
| SUMPTRS07     | 381357        | 6454322        | 128   |
| SUMPTRS08     | 381327        | 6454251        | 403   |
| SUMPTRS09     | 380965        | 6453790        | 128   |
| SUMPTRS10     | 380967        | 6453805        | 234   |
| SUMPTRS11     | 380975        | 6453823        | 140   |
| SUMPTRS12     | 380683        | 6453285        | 262   |
| SUMPTRS13     | 380673        | 6453285        | 195   |



**Table 7 Rainwater Tank Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b>    | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/L)</b> |
|--------------------|----------------------|-----------------------|-------------------------|--|
| <b>WATTRS01</b>    | <b>N/A</b>           | <b>N/A</b>            | <b>Leonora -Removed</b> | <b>N/A</b>   |
| WATTRS02           | 336706               | 6803910               | Leonora                 | 0.01   |
| WATTRS03 ù         | 351897               | 6596121               | Kalgoorlie              | 0.01   |
| WATTRS04 ù         | 352020               | 6595971               | Kalgoorlie              | 0.01   |
| WATTRS05           | 352617               | 6597079               | Kalgoorlie              | 0.007  |
| WATTRS06           | 351813               | 6595722               | Kalgoorlie              | 0.01   |
| WATTRS07           | 720578               | 6543539               | Southern Cross          | <0.005   |
| WATTRS08           | 720797               | 6542926               | Southern Cross          | 0.007  |
| WATTRS09           | 719822               | 6544399               | Southern Cross          | <0.005   |
| WATTRS10           | 621608               | 6515894               | Merredin                | 0.01   |
| WATTRS11           | 621479               | 6516417               | Merredin                | 0.01   |
| WATTRS12           | 566981               | 6499585               | Kellerberrin            | <0.006   |
| WATTRS13           | 567713               | 6499913               | Kellerberrin            | 0.01   |
| WATTRS14           | 468453               | 6498667               | Northam                 | 0.01   |
| WATTRS15           | 469253               | 6498545               | Northam                 | 0.01   |
| WATTRS16           | 406095               | 6470867               | Midland                 | 0.01   |
| WATTRS17           | 404355               | 6470695               | Midland                 | 0.01   |
| WATTRS18           | 382236               | 6450400               | South Fremantle         | 0.01   |
| WATTRS19           | 382064               | 6454832               | North Fremantle         | 0.01   |

**Table 8 Benthic Sediment Sampling Lead Baseline Trigger Level (as approved under Condition 8)**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/kg dry weight)</b> |
|--------------------|----------------------|-----------------------|--|
| P1                 | 381695               | 6454255               | 19   |
| P2                 | 381600               | 6454155               | 14   |
| P3                 | 381571               | 6454112               | 22   |
| P4                 | 381553               | 6454097               | 10   |
| P5                 | 381481               | 6453997               | 22   |
| P6                 | 381439               | 6453938               | 7  |
| P7                 | 381378               | 6453877               | 11   |
| P8                 | 381342               | 6453843               | 14   |
| P9                 | 381339               | 6453805               | 18   |
| P10                | 381277               | 6453755               | 21   |
| P11                | 381218               | 6453673               | 35   |
| P12                | 381211               | 6453665               | 17   |
| DP1                | 381146               | 6453606               | 29   |
| DP2                | 381132               | 6453570               | 44   |
| DP3                | 381098               | 6453534               | 24   |
| DP4                | 381089               | 6453489               | 19   |
| DP5                | 380976               | 6453378               | 43   |
| DP6                | 380882               | 6453281               | 24   |
| DP7                | 380937               | 6453323               | 19   |
| CO2                | 380939               | 6454265               | 3  |

**Table 9 Static Dust Sampling Lead Baseline Trigger Level**

| <b>Site Number</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Site Location</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: mg/m<sup>2</sup>/month)</b> |
|--------------------|----------------------|-----------------------|----------------------|--|
| SDMTRS01           | 381591               | 6454322               | Fremantle Port       | <b>1.30</b>  |
| SDMTRS02           | 380982               | 6453828               | Fremantle Port       | <b>2.74</b>  |
| SDMTRS03           | 380654               | 6453299               | Fremantle Port       | <b>4.00</b>  |
| SDMTRS04           | 381543               | 6453336               | Fremantle Port       | <b>3.37</b>  |
| SDMTRS05           | 382178               | 6454397               | Fremantle Port       | <b>4.80</b>  |
| SDMTRS06           | 405453               | 6470920               | Midland              | <b>2.20</b>  |
| SDMTRS07           | 406993               | 6470568               | Midland              | <b>1.10</b>  |
| SDMTRS08           | 470535               | 6498088               | Northam              | <b>2.70</b>  |
| SDMTRS09           | 470035               | 6498119               | Northam              | <b>1.40</b>  |
| SDMTRS10           | 567496               | 6499779               | Kellerberrin         | <b>0.50</b>  |
| SDMTRS11           | 568471               | 6499812               | Kellerberrin         | <b>4.34</b>  |
| SDMTRS12           | 616399               | 6515069               | Merredin             | <b>1.40</b>  |
| SDMTRS13           | 616365               | 6515108               | Merredin             | <b>1.30</b>  |
| SDMTRS14           | 720172               | 6544365               | Southern Cross       | <b>2.30</b>  |
| SDMTRS15           | 720130               | 6544381               | Southern Cross       | <b>2.60</b>  |
| SDMTRS16           | 348369               | 6593506               | Kalgoorlie           | <b>0.70</b>  |
| SDMTRS17           | 348972               | 6593826               | Kalgoorlie           | <b>4.06</b>  |
| SDMTRS18           | 336308               | 6805100               | Leonora              | <b>3.34</b>  |
| SDMTRS19           | 336275               | 6805150               | Leonora              | <b>2.40</b>  |
| SDMTRS20           | 281777               | 6454719               | Fremantle            | <b>1.40</b>  |
| SDMTRS21           | 382012               | 6453696               | Fremantle            | <b>1.60</b>  |

\*Reduced to National Environment Protection Measure (NEPM) air quality standards

**Table 10 High-volume Air Sampling Lead Baseline Trigger Level**

| <b>Site Reference</b> | <b>AGD84 Easting</b> | <b>AGD84 Northing</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: <math>\mu\text{g}/\text{m}^3</math>)</b> |
|-----------------------|----------------------|-----------------------|---|
| Passenger Terminal    | <b>381616</b>        | <b>6453360</b>        | 0.500   |
| Berth 12              | <b>382093</b>        | <b>6454456</b>        |   |

**Table 11 Air Quality in Container Sampling Lead Baseline Trigger Level**

| <b>Air Quality in Container Sampling</b> | <b>Initial Lead Baseline Trigger Level<br/>(Unit of Measurement: <math>\mu\text{g}/\text{m}^3</math>)</b> |
|--|---|
|  | 20.00   |