Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L8733/2013/1
Licence holder	Atlas Iron Pty Ltd
ACN	110 396 168
Registered business address	1314 Hay Street West Perth WA 6005
DWER file number	INS-0001837
Duration	29/08/2013 to 28/07/2029
Date of issue	25/07/2013
Date of amendment	12/08/2025
Premises details	Abydos Direct Shipping Ore Project M45/1179, L45/204, and L45/207 MARBLE BAR WA 6760 As depicted in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 5: Processing or beneficiation of metallic or non-metallic ore	3,500,000 tonnes per annual period
Category 85: Sewage facility: premises — (a) on which sewage is treated (excluding septic tanks); or, (b) from which treated sewage is discharged onto land or into waters.	70 m^3 per day
Category 89: Putrescible landfill site	460 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 12 August 2025, by:

Jarrod Abrahams
Digitally signed by Jarrod Abrahams
Date: 2025.08.12 15:12:23 +08'00'

MANAGER, RESOURCE INDUSTRIES
Officer delegated under section 20 of the Environmental Protection Act 1986

Licence history

Date	Reference number	Summary of changes
09/08/2013	W5203/2012/1	Abydos Construction Camp Wastewater Treatment Plant
11/10/2013	W5253/2012/1	Abydos Direct Shipping Ore Project crushing and screening plant and Operations Wastewater Treatment Plant
14/02/2013	R2334/2012/1	Operation of the temporary Abydos Construction Camp Wastewater Treatment Plant approved under works approval W5203/2012/1
25/07/2013	L8733/2013/1	Licence issued for the Abydos DSO Project
18/12/2014	W5743/2014/1	Abydos Direct Shipping Ore category 89 landfill facility
04/12/2014	L8733/2013/1	Licence amendment to include category 85 Wastewater Treatment Plant
05/03/2015	L8733/2013/1	Licence amendment to include category 89 and condition relating to the burial of tyres
12/08/2025	L8733/2013/1	Licence amendment for the installation of a secondary mobile crushing and screening facility

Interpretation

In this licence:

(a) the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this licence:

  (i) if dated, refers to that particular version; and

  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

Construction requirements

1. The licence holder must construct and/or install the infrastructure and/or equipment; in accordance with the corresponding design and construction / installation requirements as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
1.	Crushing and screening facility	• Water sprays to be installed on the feed bin, strategic conveyor transfer points and stacker head chutes; • Enclosed/covered transfer points constructed and/or installed in accordance with manufacturer specifications; and • The crusher and screening facility to be surrounded by an earthen bund to prevent ingress and egress of stormwater.	As specified in Schedule 1, Figure 5

2. The licence holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance which includes:

i. certification that the items of infrastructure or component(s) thereof, as specified in condition 1 have been constructed in accordance with the relevant requirements;

ii. as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified; and

iii. be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.

3. Upon completion of the works specified in condition 1 and following submission of the report specified in condition 2, the licence holder must operate the associated infrastructure in accordance with conditions of this licence.

Operations – Infrastructure and equipment

4. The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Crushing and screening facility	• Installation and operation of water	As specified in Schedule 1, Figure

Site infrastructure and equipment	Operational requirement	Infrastructure location
	sprayers on the feed bin, strategic conveyor transfer points and stacker head chutes. • Dust suppression (via conditioning by the use of water cart) on the product stockpiles. • Dust suppression (via water cart) on access roads and work areas within the crushing and screening facility to minimise dust from vehicles and equipment (e.g., bobcats, loaders).	5
Wastewater treatment plant (WWTP)	• ensure that the WWTP has signage to prevent unauthorised access; • overtopping of the vessels does not occur; • stormwater runoff is prevented from entering the vessels; • there is no discernible seepage loss from the vessels; and • vegetation and floating debris (emergent or otherwise) is prevented from growing or accumulating in the vessels.	As specified in Schedule 1, Figure 4
WWTP Irrigation Area	• ensure that the irrigation area has signage to prevent unauthorised access; • no irrigation generated run-off, spray drift or discharge occurs beyond the boundary of the defined irrigation area(s); • treated wastewater is evenly distributed over the irrigation area; • no soil erosion occurs; • ensure that the irrigation area contain signage to prevent unauthorised access; • irrigation does not occur on land that is waterlogged; and • vegetation cover is maintained over the irrigation areas identified in Table 7.	As specified in Schedule 1, Figure 4
Landfill facility	• waste is levelled and compacted as soon as practicable after it is discharged; • waste is placed and compacted to ensure all faces are stable and	As specified in Schedule 1, Figure 2

Site infrastructure and equipment	Operational requirement	Infrastructure location
	capable of retaining rehabilitation material; and • rehabilitation of a cell or phase takes place within 6 months after disposal in that cell or phase has been completed.	
Tyre disposal areas: • Trigg Backfill • Trigg Waste Rock Dump	• Used tyres may be disposed of in Trigg Backfill and Trigg Waste Rock Dump.	As specified in Schedule 1, Figure 3

5. The licence holder shall ensure that waste material is only stored and/or treated within vessels or compounds provided with the infrastructure detailed in Table 3.

Table 3: Waste Acceptance Specifications

Vessel or compound	Material	Requirements
Wastewater Treatment Plant Tanks and Pipelines	Sewage and discharged reverse osmosis water	Impermeable receptacle or storage chamber
Turkeys Nest Dam	Treated wastewater from Heavy Vehicle Wash Bay and discharged reverse osmosis water	Lined with a HDPE liner.

Dust management and spills and leaks

6. The works approval holder must use water carts to manage dust lift-off from active areas to protect the environment by preventing and, where that is not possible, minimising dust emissions that may cause pollution or environmental harm.

7. The licence holder shall immediately recover or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

Waste management and processing

8. The licence holder must only allow waste to be accepted onto the Premises if:

(a) it is of a type listed in Table 4;

(b) the quantity accepted is below any limit listed in Table 4; and

(c) it meets any specification listed in Table 4.

Table 4: Waste Acceptance Specifications

Waste Type	Quantity Limit	Specification[1]
Sewage	70 m^3/day	Accepted through sewer inflow(s) only, or through sewage produced on the prescribed premises and with prior written approval from DWER.

Waste Type	Quantity Limit	Specification[1]
Inert Waste Type 1	460 tonnes per annual period	None Required
Putrescible Waste		
Inert Waste Type 2 (Tyres)		

Note 1: Additional requirements for the acceptance of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

9. The licence holder must ensure that where wastes produced on the premises are not taken offsite for lawful use or disposal, they are managed in accordance with Table 5.

Table 5: Waste Processing Requirements

Facility	Waste type	Process(es)	Process limits[1]
Landfill	Clean Fill; Putrescible Waste; and Inert Waste Type 1	Receipt, handling, associated storage and disposal of waste by landfilling	Disposal of waste by landfilling must only take place within the landfill area shown on the Landfill Area Map in Schedule 1. No waste must be temporarily stored or landfilled within 35 metres from the boundary of the premises. The separation distance between the base of the landfill and the highest groundwater level must not be less than 2 metres. The separation distance between the landfill and any surface water body must not be less than 100 metres.
Wastewater treatment plant	Sewage	Biological, physical and chemical treatment	Treatment of sewage waste must be limited at or below the treatment capacity of 70 m^3/day.
Tyre disposal: Trigg Backfill Trigg Waste Rock Dump	Inert Waste Type 2[1] (Tyres only)	Receipt, handling, associated storage and disposal of waste by landfilling	Disposal of used tyres must only take place within the prescribed premises in the location shown in the Tyre Disposal Location Map shown in Schedule 1. Tyres must only be disposed of in batches

Facility	Waste type	Process(es)	Process limits[1]
			separated from each other by at least 100 mm of soil in batches of not more than 40 m3 of tyres reduced to pieces or not more than 1000 whole tyres. All tyre disposal locations are to be marked and recorded.

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987* and the *Environmental Protection (Controlled Waste) Regulations 2004.*

10. The licence holder must ensure that cover is applied and maintained on landfilled wastes in accordance with Table 6 and that sufficient stockpiles of cover are maintained on site at all times.

Table 6: Cover Requirements

Waste Type	Material	Depth	Timescales
Inert Waste Type 1	Inert and incombustible material	Sufficient to ensure that waste is completely covered and that no waste is exposed	Monthly or as soon as practicable after deposit and prior to compaction
Putrescible Waste		Final soil cover of not less than 500mm	
Inert Waste Type 2 (Tyres)			

Note 1: Additional requirements for the covering of tyres are set out in Part 6 of the *Environmental Protection Regulations 1987.*

11. The licence holder must take all reasonable and practical measures to ensure that no wind-blown waste escapes from the Premises and that wind-blown waste is collected on at least a monthly basis and returned to the tipping area.

General security measures

12. The licence holder must implement the following security measures at the site:

(a) erect and maintain suitable fencing to prevent unauthorised access to the site;
(b) ensure that any entrance gates to the premises are securely locked when the premises are unattended; and
(c) undertake regular inspections of all security measures and repair damage as soon as practicable.

Emissions and discharges

Authorised discharge points for emissions

13. The licence holder must ensure that where wastes produced on the premises are not taken offsite for lawful use or disposal, they are managed in accordance with Table 7.

Table 7: Infrastructure and equipment requirements

Emission point and location reference	Description	Source including abatement
WWTP irrigation area discharge pipe (As shown in Schedule 1, Figure 4)	Discharge to irrigation area from Wastewater Treatment Plant final storage tanks	Treated Wastewater Treatment Plant effluent and reverse osmosis plant reject water

Discharges to land

14. The licence holder must ensure that treated wastewater is only discharged via irrigation to the specified discharge points in accordance with the concentration limits and loading limits specified in Table 8.

Table 8: Infrastructure and equipment requirements

Discharge point	Description	Loading limit	Averaging Period
WWTP irrigation area discharge pipe (As shown in Schedule 1, Figure 4)	Load of Total Nitrogen	480 kg/ha/year	Annual
	Total Load of Total Phosphorus	120 kg/ha/year	
	Volume	70m^3 per day	

15. The licence holder must target emissions to land to meet the levels specified in Table 9.

Table 9: Emission targets to land

Emission point reference	Parameter	Target (including units)	Averaging period
WWTP irrigation area discharge pipe (As shown in Schedule 1, Figure 4)	pH[1]	6.5-8.5 pH units	Spot Sample
	5-Day Biochemical Oxygen Demand	<20 mg/L	
	Total Suspended Solids	<30 mg/L	
	Total Nitrogen	<30 mg/L	
	Total Phosphorus	<8 mg/L	
	E.coli	<10^6 cfu/100 ml	

Emission point reference	Parameter	Target (including units)	Averaging period
	Electrical Conductivity	<1800 µS/cm	

Note 1: In-field non-NATA accredited analysis permitted.

Monitoring

16. The licence holder must ensure that:

(a) all water samples are collected and preserved in accordance with AS/NZS 5667.1 unless otherwise indicated in the relevant table;

(b) all wastewater sampling is conducted in accordance with AS/NZS 5667.10;

(c) all microbiological samples are collected and preserved in accordance with AS/NZS 2031; and

(d) all samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters to be measured unless otherwise indicated in the relevant table.

17. The licence holder must ensure that quarterly monitoring is undertaken at least 45 days apart.

18. The licence holder must ensure that all monitoring equipment used on the premises to comply with the conditions of this licence is calibrated in accordance with the manufacturer's specifications.

19. The licence holder must, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

20. The licence holder must undertake the monitoring in Table 10 according to the specifications in that table

Table 10: Emission targets to land

Emission point reference	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
WWTP irrigation area discharge pipe (As shown in Schedule 1, Figure 4)	Sampling point on recirculation line to final holding tanks.	pH[1]	6.5-8.5 pH units	Spot Sample	Quarterly
		Biochemical Oxygen Demand	mg/L		
		Total Suspended Solids	mg/L		
		Total Nitrogen	mg/L		
		Total Phosphorus	mg/L		
		E.coli	cfu/100 ml		

Emission point reference	Monitoring point reference	Parameter	Units	Averaging Period	Frequency
		Electrical Conductivity	µS/cm		
		Volumetric flow rate (cumulative)	m^3/day	Monthly	Continuous

Note 1: In-field non-NATA accredited analysis permitted.

21. The licence holder must undertake the monitoring in Table 11 according to the specifications in that table.

Table 11: Emission targets to land

Input/Output	Parameter	Units	Averaging period	Frequency
Waste Inputs	Inert Waste Type 1, Inert Waste Type 2 (Tyres), Putrescible Waste	tonnes or m^3 (where no weighbridge is present)	N/A	Each load arriving at the Premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

Records and reporting

Records

22. The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.

23. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:

(a) the calculation of fees payable in respect of this licence;

(b) the works conducted in accordance with condition 1 of this licence;

(c) any maintenance of infrastructure that is performed in the course of complying with condition 4 of this licence;

(d) waste classification details to demonstrate compliance with condition 8;

(e) monitoring programmes undertaken in accordance with conditions 20 and 21 of this licence; and

(f) complaints received under condition 22 of this licence.

24. The books specified under condition 24 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the licence holder for the duration of the licence; and

(d) be available to be produced to an inspector or the CEO as required.

Annual and Biennial Reporting

25. The licence holder must:

(a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period, and

(b) prepare and submit to the CEO an Annual Audit Compliance Report in the approved form by 31 July each year.

26. The licence holder must:

(a) prepare a biennial Environmental Report that provides information in accordance with Table 12 for the preceding annual periods, and

(b) submit that Environmental Report to the CEO by 28 March every second year (commencing from 28/03/2024).

Table 12: **Environmental reporting requirements**

Condition	Requirement
-	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken
-	Summary of any treatment capacity target exceedances and any action taken.
20	pH, 5 Day Biochemical Oxygen Demand, Total Suspended Solids, Electrical Conductivity, Total Nitrogen, Total Phosphorus, E.Coli and Volumetric flow rate and cumulative volumes discharged to irrigation area and use for dust suppression
22	Complaints summary
21	Summary of waste inputs and waste outputs
25	Compliance
-	Measures taken to suppress dust and manage stormwater

Notification requirements

27. The licence holder must ensure that the parameters listed in Table 13 are notified to the CEO in accordance with the notification requirements of the table.

Table 13: Infrastructure and equipment requirements

Condition or table (if relevant)	Parameter	Notification requirement[1]	Format or form[2]
-	Any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	Part A: As soon as practicable but no later than 5pm of the next usual working day.	N1 or ET1 (as appropriate)
-	Breach of any limit specified in the Licence	Part B: As soon as practicable	

Note 1: No notification requirement in the Licence must not negate the requirement to comply with s72 of the Act.

Note 2: Forms are in Schedule 2.

Definitions

In this licence, the terms in Table 4 have the meanings defined.

Table 14: Definitions

Term	Definition
ACN	Australian Company Number
AHD	means the Australian height datum
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12-month period commencing from 1 March until 28 February (or 29 February in a leap year) of the immediately following year.
AS/NZS 2031	means the Australian Standard AS/NZS 2031 *Selection of containers and preservation of water samples for microbiological analysis.*
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling– Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples.
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling – Guidance on sampling of waste waters.*
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer of the department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
department; DWER	means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
discharge	has the same meaning given to that term under the EP Act.
environmentally hazardous material	means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials

Term	Definition
	include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by the Department of Mines and Petroleum
emission	has the same meaning given to that term under the EP Act.
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
Inert Waste Type 1	has the meaning defined in Landfill Definitions
Inert Waste Type 2	has the meaning defined in Landfill Definitions
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
NATA	means the National Association of Testing Authorities, Australia;
NATA accredited	means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis
Landfill Definitions	means the *Landfill Waste Classifications and Waste Definitions 1996* (published the Department of Water and Environmental Regulation)
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map (Figure 1) in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
Putrescible Waste	has the meaning defined in Landfill Definitions
Schedule 1	means Schedule 1 of this Licence unless otherwise stated
Schedule 2	means Schedule 2 of this Licence unless otherwise stated
waste	has the same meaning given to that term under the EP Act.
wastewater treatment	means any vessel or tank containment infrastructure associated with the treatment of wastewater

Term	Definition
vessels	

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below

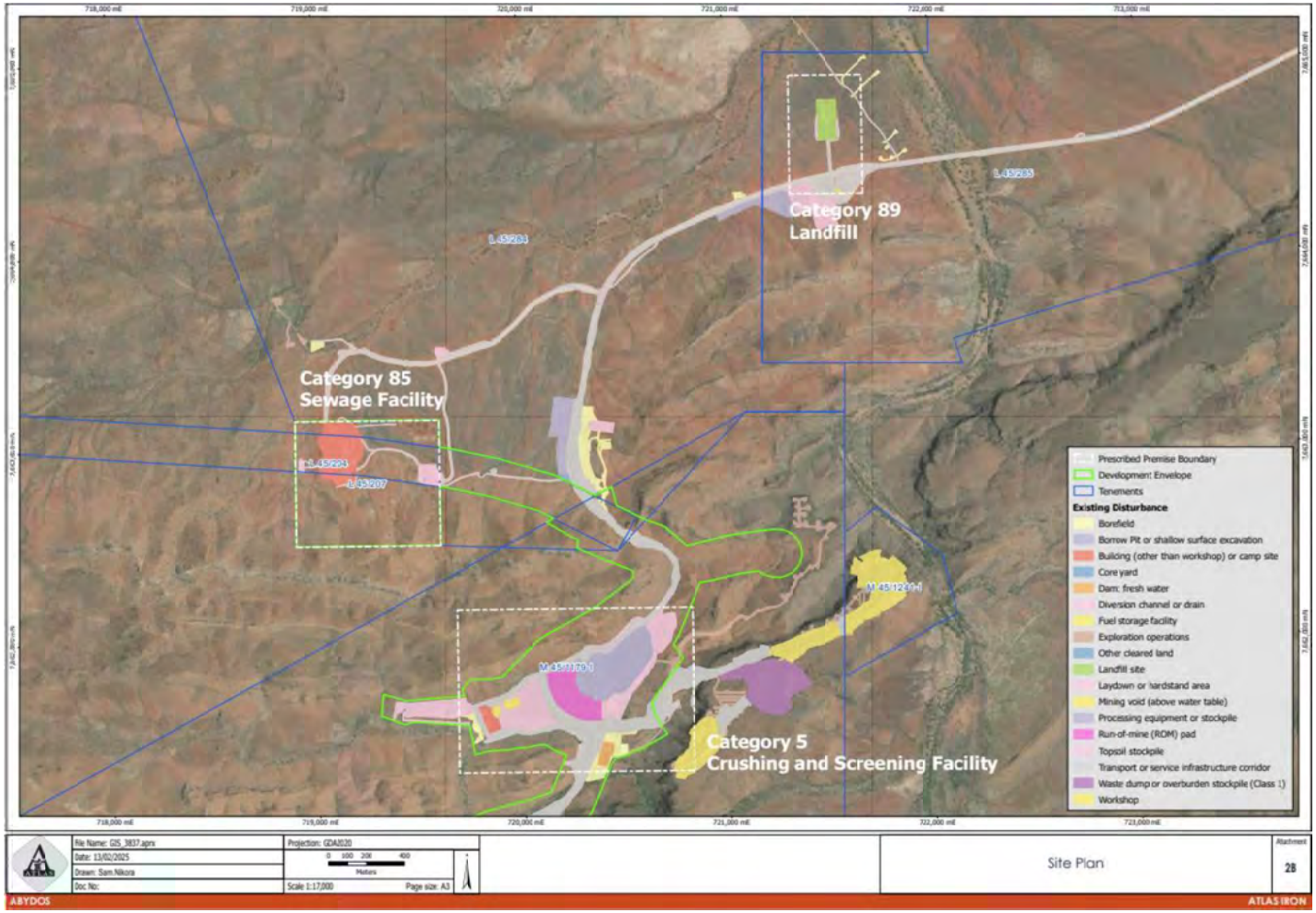

Figure 1: Map of the boundary of the prescribed premises

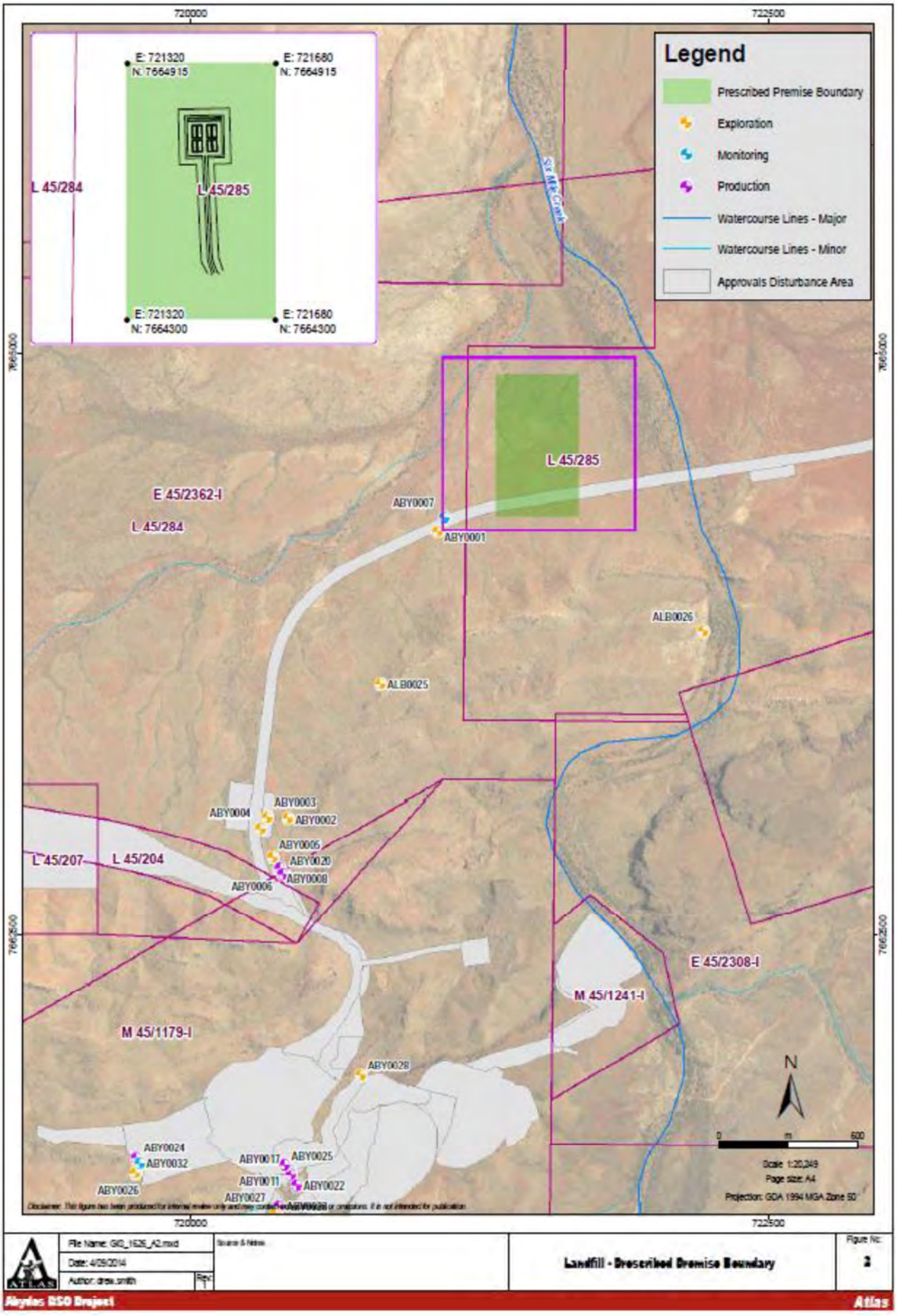

Figure 2: Map of landfill location

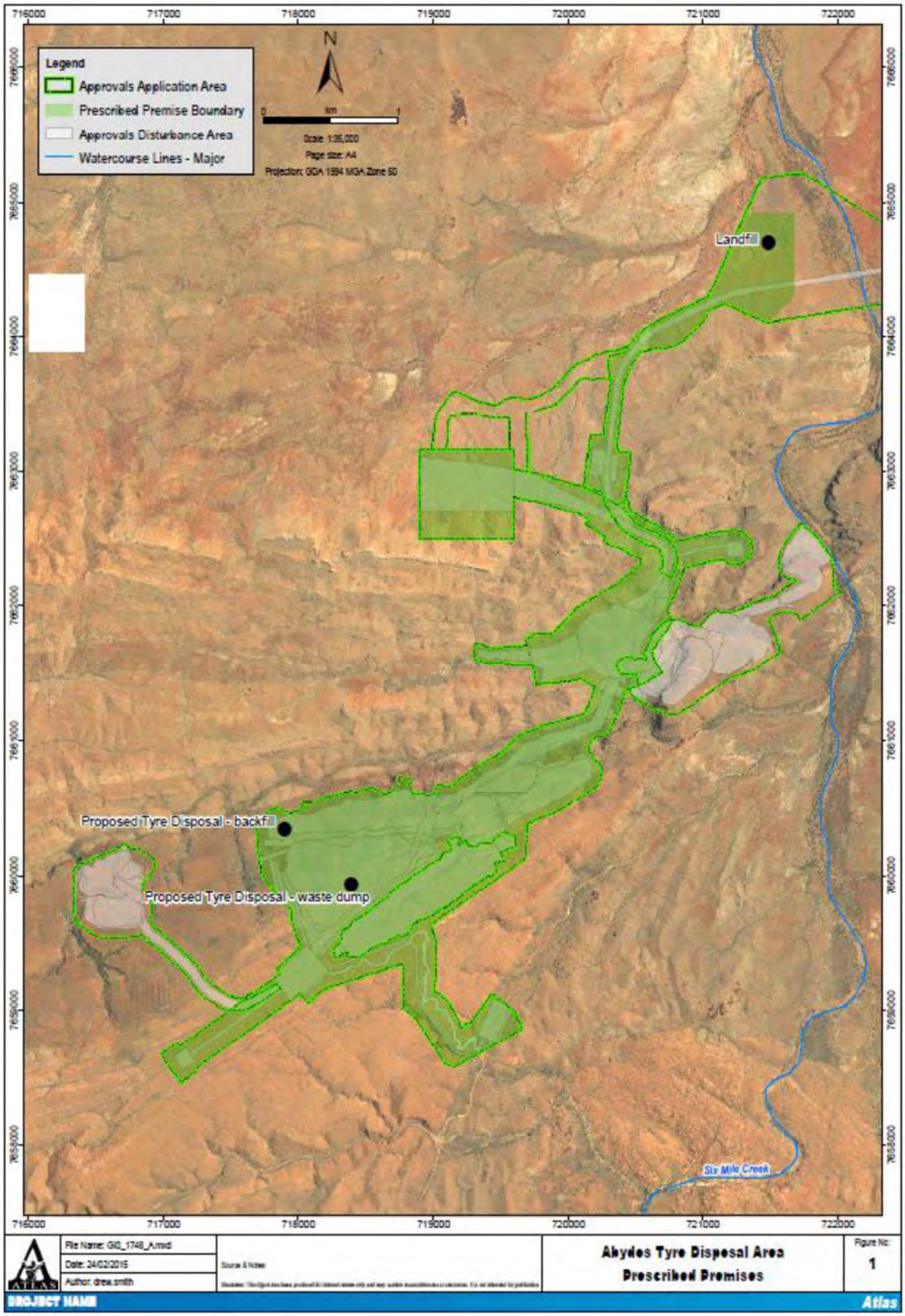

Figure 3: Map of tyre disposal location

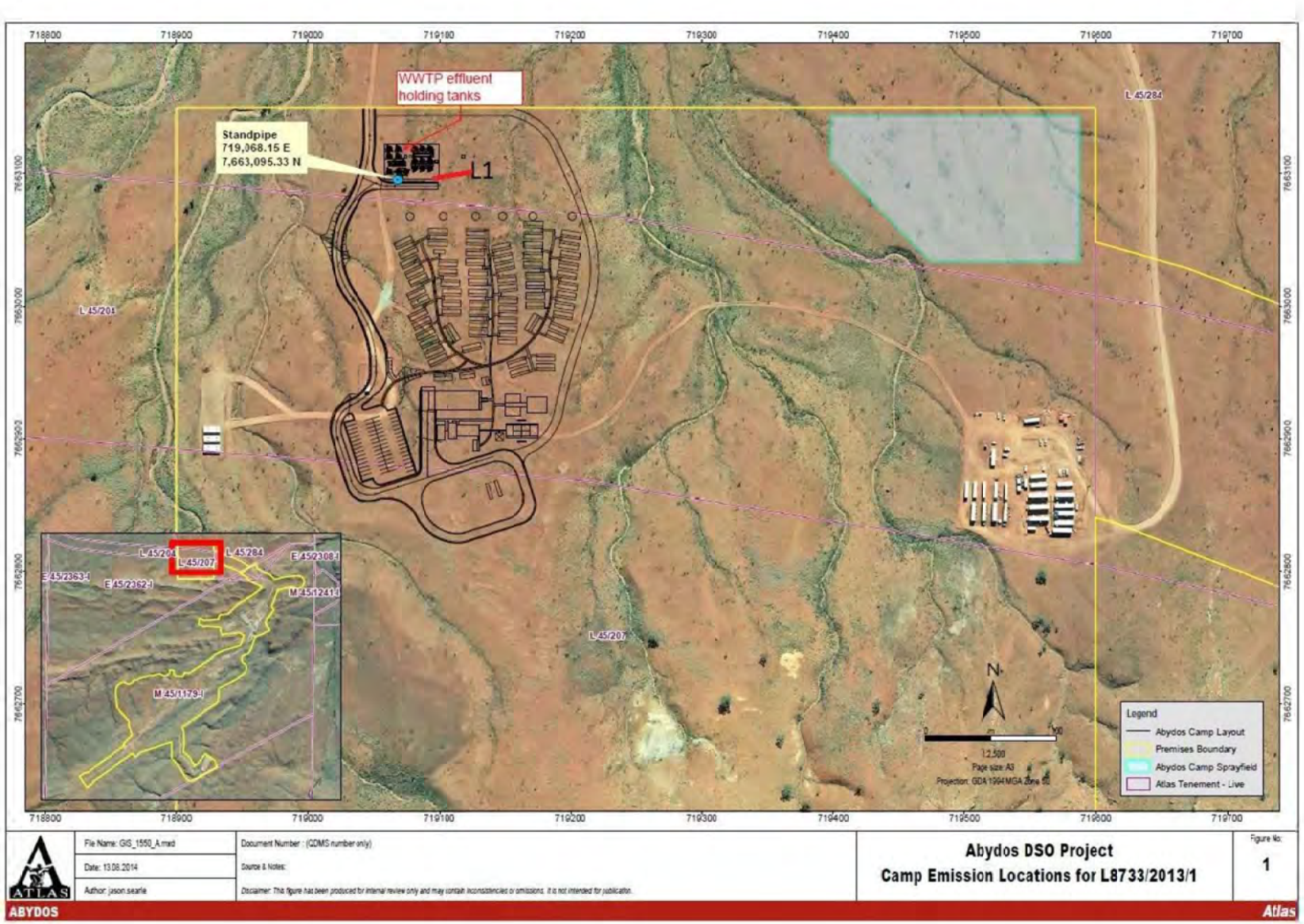

Figure 4: Map of wastewater treatment plant discharge points

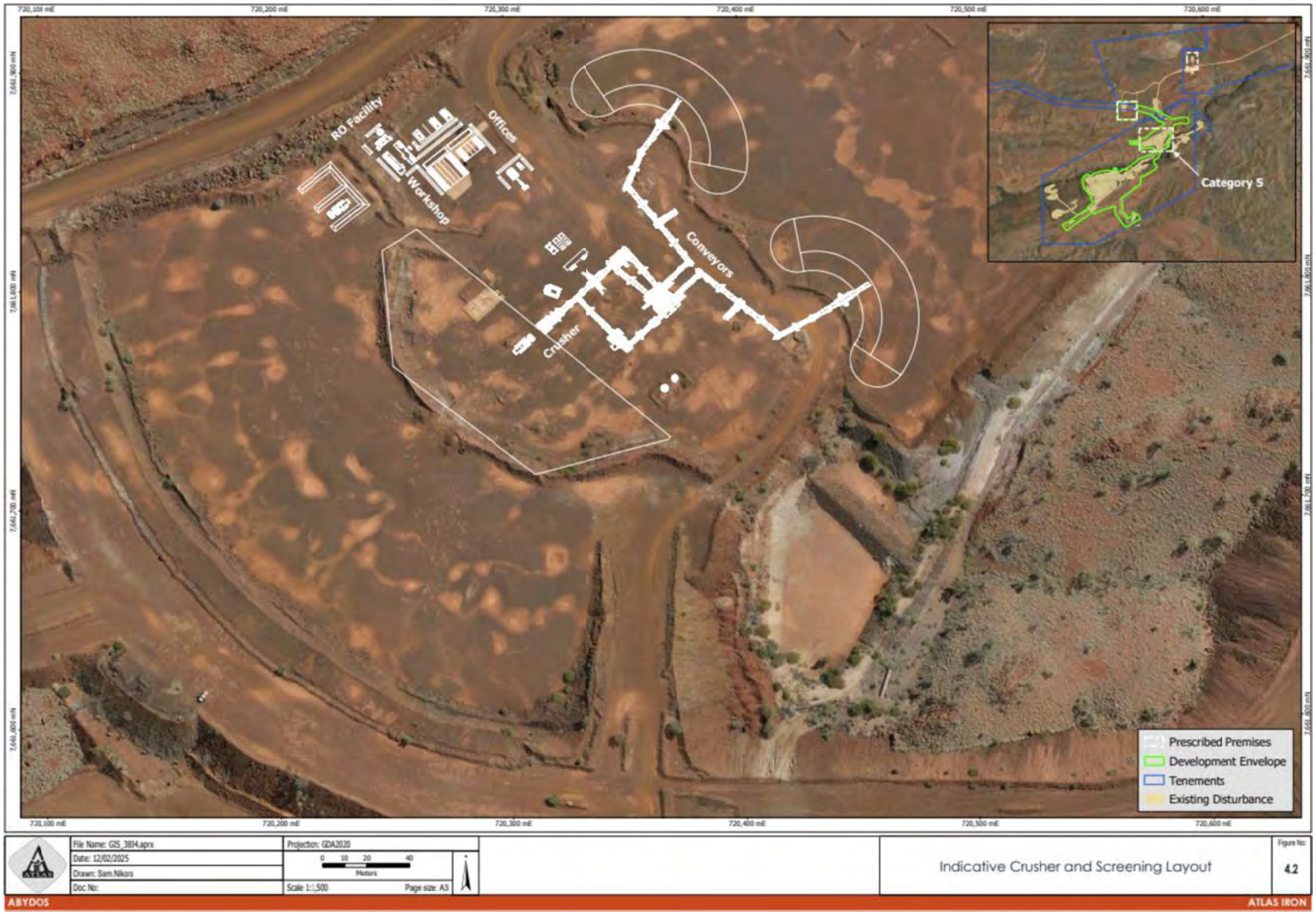

Figure 5: Map of crushing and screening facility

Schedule 2: Forms

ET1

Licence: L8733/2013/1
Form: ET1
Name: Target exceedances

Licensee: Atlas Iron Limited
Period:

Form ET1: Target exceedances
Please provide an analysis of the target exceedances for the quarter, including but not limited to: (a) the emission point (b) the root cause analysis for the exceedances; (c) any common or contributory factors including but not limited to fuel, mass emissions, gas flow rates, inlet & exit temperature, abatement status; (d) a description of remedial measures taken or planned to be taken, including those taken to prevent recurrence of the exceedances; (e) complaints received that may have been caused by this exceedance; and (f) for those exceedances that may have caused complaints, meteorological details: temperature, wind speed and wind direction, humidity.

Signed on behalf of Atlas Iron Limited: ..... Date: .....

N1 Form

Licence: L8733/2013/1 Licence Holder: Atlas Iron Limited

Form: N1 Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused is causing or may cause pollution.

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements must be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

Part A

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

Notification requirements for the breach of a limit	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution

Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	

Part B

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Atlas Iron Limited	
Date	