

environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Ref. 12/9/11/L974/9

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LICENCE NUMBER: 12/9/11/L974/9

CLASS: 2 G.L.B* (WASTE DISPOSAL FACILITY)
(EVAPORATION PONDS), G.L.B* COREX AND
CORNARC SLAG DISPOSAL FACILITY) & H:h
(STORAGE AND SORTING YARD)

WASTE MANAGEMENT FACILITY: SALDANHA STEEL WASTE MANAGEMENT
FACILITIES

LOCATION: REMAINDER OF PORTION 2 AND PORTION 13,
FARM YZERVARKENS RUG NO. 129; NO. 127 AND
FARM NO. 1132, SITUATED IN THE TOWNSHIP OF
MALMESBURY, SALDANHA BAY LOCAL
MUNICIPALITY, WESTERN CAPE PROVINCE

LICENCE HOLDER: SALDANHA STEEL (PTY) LTD

ADDRESS: PRIVATE BAG X11, SALDANHA, 7395

CONTACT PERSON: MR. OTTO SCRIBANTE

CONTACT DETAILS: TEL: (022) 7094596, FAX: (022) 709 4799

**WASTE MANAGEMENT LICENCE IN TERMS OF SECTION 49(1)(a) OF THE NATIONAL
ENVIRONMENTAL MANAGEMENT: WASTE ACT, 2008 (ACT NO. 59 OF 2008)**

In terms of National Environmental Management: Waste Act, 2008 (Act 59 of 2008), the Deputy Director General: Chemicals and Waste Management, acting under delegation, hereby grants Saldanha Steel (Pty) Ltd a waste management licence for the following waste management activities as listed in Category A and B of Government Notice No 718 dated 03 July 2009:



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Category A

- (1) The storage, including the temporary storage, of general waste at a facility that has the capacity to store in excess of 100m³ of general waste at any one time, excluding the storage of waste in lagoons.
- (2) The storage including the temporary storage of hazardous waste at a facility that has the capacity to store in excess of 35m³ of hazardous waste at any one time, excluding the storage of hazardous waste in lagoons.
- (5) The sorting, shredding, grinding or bailing of general waste at a facility that has the capacity to process in excess of one ton of general waste per day.
- (7) The recycling or re-use of general waste of more than 10 tons per month.
- (8) The recovery of waste including the refining, utilisation, or co-processing of the waste at a facility that has the capacity to process in excess of three tons of general waste or less than 500kg of hazardous waste per day, excluding recovery that takes place as an integral part of an internal manufacturing process within the same premises"

Category B

- (1) The storage including temporary storage of hazardous waste in lagoons.
- (5) The treatment of hazardous waste using any form of treatment of hazardous waste using any form of treatment regardless of the size or capacity of such a facility to treat such waste.
- (10) The disposal of general waste to land covering an area in excess of 200m².

In this Licence, "Director" means the Director: Licensing of the National Department of Environmental Affairs, who may be contacted at the address below:

Director: Licensing
Department of Environmental Affairs
Private Bag X447
PRETORIA
0001

In this Licence, "Director: RPW" means the Director: Resource Protection and Waste of the Department of Water Affairs, who may be contacted at the address below:

Director: Resource Protection and Waste
Department of Water Affairs
Private Bag X 313
PRETORIA
0001



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1. SITE DETAILS

1.1 LOCATION

1.1.1 This licence authorises the operation of the central sorting yard, solid waste disposal site, slag disposal sites, brine evaporation ponds, treatment of hazardous waste and recovery of metals from the slag on Portion 2 of the Farm Yzervarkensrug No. 129, Remainder of Portion 13 of the Farm Yzervarkensrug No. 127 and Farm 1132, in Malmesbury within the jurisdiction of Saldanha Bay Local Municipality in Western Cape Province (hereafter referred to as the Site).

1.1.2 The location of the Site must be according to the co-ordinates which are defined in Annexure I:

1.2 DOCUMENTS CONSIDERED

1.2.1 Geohydrological Report compiled by Groundwater Programme, Division of Water Technology, dated 14 November 1995, Revised in 2011;

1.2.2 Analysis of treated water from Saldanha Municipality Wastewater Treatment Plant, Report No: 32110, compiled by Waterlab (Pty) Ltd;

1.2.3 Saldanha Steel (Pty) Ltd Waste Disposal Facilities External Compliance Audit Report compiled by Resource Management Services, dated December 2010, "hereinafter referred to as the "Report";

1.2.4 Drawing No: 22938-0920-A-00020104-(DWG) REV 7 (Saldanha Steel Project Waste Disposal Area);

1.2.5 Drawing No: S.INF1.C.0034 REV 10 (Saldanha steel Project Designated Waste Disposal Area);

1.2.6 The Permit issued to Saldanha Steel (Pty) Ltd in terms of Section 20 of the Environmental Conservation Act, 1989. (Ref no: 16/2/7/G105/B22/Z1/P297), dated 15 April 1998; and

1.2.7 The Permit Amendment issued to Saldanha Steel (Pty) Ltd in terms of Section 20 (1) of the Environmental Conservation Act, 1989. (Ref no: 16/2/7/G105/B22/Z1/P297), dated 07 August 2001.



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LICENCE CONDITIONS

1.3 SITE SECURITY AND ACCESS CONTROL

1.3.1 The Licence Holder must ensure effective access control of the Waste Management Site to prevent unauthorised entry. Weatherproof, durable and legible signs in at least three official languages applicable in the area must be displayed at each entrance to the Site. The signs must indicate the risks involved in entering the Site, state the hours of operation and the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Site.

1.3.2 The Licence Holder must prevent the storage, sorting, treatment, recovery and disposal of waste that is not authorised at the Site.

2. MANAGEMENT

2.1 GENERAL MANAGEMENT

2.1.1 The activities shall be managed and operated:

- a) In accordance with a documented Environmental Management System (EMS), that *inter alia*, identifies and minimises the risks of pollution, including those arising from operations, maintenance, accidents, incidents and non-conformances as well as those drawn to the attention of the Licence Holder as a result of complaints;
- b) In accordance with conditions of this Licence and any other written instruction by the Director; and
- c) By an adequate, competent staff complement.

2.1.2 Any persons having duties that are or may be affected by this Licence must have convenient access to a copy thereof, which copy must be kept at or near the place where those duties are carried out.

2.1.3 A copy of this Licence may be published by the Department, in its discretion, on any website or media.

2.2 DESIGNATION OF WASTE MANAGEMENT CONTROL OFFICER

2.2.1 A Waste Management Control Officer (WMCO) must be designated to monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the Licence and the Environmental Management Plan. The WMCO must:

- a) Report any non-compliance with any Licence conditions or requirements or provisions of NEM:WA to the licensing authority.



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- 2.2.2 The duties and responsibility of the WMCO should not be seen as exempting the Licence Holder from any other legal obligations in terms of the NEM:WA.

2.3 EMERGENCY PREPAREDNESS PLAN

- 2.3.1 The Licence Holder must maintain and implement an emergency preparedness plan and review it annually when conducting an audit, after each emergency incident and major accident. The plan must, amongst others, include measures to address:
- a) Equipment malfunction;
 - b) Site fires;
 - c) Spillage (en route and on Site);
 - d) Natural disasters such as floods; and
 - e) The plan must include contact details of the nearest police station, ambulance services and the emergency centre.

3 PERMISSIBLE WASTE

- 3.1 Any portion of the Site, which has been constructed or developed according to condition 4 below, may be used for the storage of brine, sorting of general waste, treatment of hazardous waste, recovery of metals from slag, disposal of solid waste, primary and secondary Conarc slag and Corex slag, excluding the waste types listed in Annexure V.
- 3.2 The classification, acceptance and disposal criteria as listed in the latest edition of the document "Minimum Requirements for Handling, Classification and Disposal of Hazardous Waste, Waste Management Series, Department of Water Affairs and Forestry or its successor must be conformed to.
- 3.3 All waste to be disposed of on the Solid Waste Disposal Site and in the Brine Evaporation Pond must be reclassified by an accredited toxicologist according to the methods prescribed in the Minimum Requirements Documentation or its successor. Should wastes be delisted from either H:h or H:H to General, the treatment methodology necessary must be clearly documented and submitted in a Report to the Director within 2 months after the waste management licence has been issued.

4 CONSTRUCTION OF THE ACTIVITY

- 4.1 All construction and further development within the Sites which are not shown on the approved engineering plans must only be undertaken by the Licence Holder after specified engineering plans have been provided to and approved by the Director.
- 4.2 Construction and further development within the Site must be carried out under the supervision of a registered professional engineer appointed by the Licence Holder.



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- 4.3 After construction of the Site, the Licence Holder must notify the Director prior to the disposal of waste.
- 4.4 Works shall be constructed and maintained on a continuous basis by the Licence Holder to divert and drain from the Site in a legal manner, all runoff water arising on land adjacent to the Site, which could be expected as a result of the estimated maximum precipitation during a period of 24 hours with an average frequency of once in fifty years (50) (hereinafter referred to as the "estimated maximum precipitation"). Such works shall, under the said rainfall event, maintain a freeboard of half a metre.
- 4.5 The License holder is not allowed to release any contaminated run-off water or contaminated stormwater from the site into the environment.
- 4.6 The maximum height of the waste disposal and slag disposal area above natural ground level shall not exceed 20 and 35 metres respectively. The levels shall only be increased after permission has been obtained from the Director.
- 4.7 The Site must be constructed in accordance with recognised civil engineering practice with special consideration to stability.
- 4.8 The slope of the sides of the Sites shall be constructed in such a manner that little or no erosion occurs.
- 4.9 The Licence Holder shall, at regular intervals as requested by the Director, compile written reports on the construction of all the works within the Sites. These reports shall contain an assessment conducted by a registered professional engineer, of all works being constructed on the Sites in comparison with the specified engineering drawings as submitted to and approved by the Director and shall also contain the detailed results of all quality control tests performed on the construction. All reports shall contain a photographic record of the construction.
- 4.10 The waste storage, sorting and treatment areas must have firm and impermeable base to prevent the contamination of ground water.

5. GENERAL IMPACT MANAGEMENT AND OPERATION

5.1 IMPACT MANAGEMENT

- 5.1.1 Waste, which is not permissible on Site, must be dealt with according to relevant legislation or the Department's policies and practices.
- 5.1.2 The Licence Holder must prevent spillages. Where they happen nonetheless, condition 2.3.1 above shall apply and the Licence Holder must ensure the effective and safe cleaning of such spillages.
- 5.1.3 The Licence Holder must take all reasonable steps to prevent the occurrence of nuisance conditions or health hazards.



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- 5.1.4 The Licence Holder must ensure that all wastes from the storage and sorting yard are sent to waste management facilities licenced to handle such wastes.
- 5.1.5 The Licence Holder must ensure that emissions from the activities are free from odour at levels likely to cause annoyance.
- 5.1.6 The Licence Holder must ensure that all personnel who work with hazardous waste are trained to deal with these potential hazardous situations so as to minimise the risk involved. Records of training and verification of competence must be kept by the Licence Holder.
- 5.1.7 Waste deposited on site must not be allowed to burn.
- 5.2 OPERATION
- 5.2.1 Waste disposal and operation of waste management facilities shall be done according to an updated Site Operational Plan which must be submitted to the Director for approval within one year after the issuance of the Licence
- 5.2.2 The Licence Holder must ensure that records in terms of volume/weight, source and nature of all wastes received; sorted and disposed are maintained and reported as per Annexure VI hereafter on annual basis.
- 5.2.3 Waste disposed of on the solid waste disposal area and the slag dumps may be reclaimed. The reclamation shall not interfere with the daily operational activities of that area.
- 5.2.4 The Licence Holder must ensure that the integrity of the liners is routinely monitored where accessible and corrective measures must be taken before containment integrity is breached.
- 5.2.5 Document procedures must be implemented to prevent any mixing of hazardous and non-hazardous waste.
- 5.2.6 The Licence Holder shall apply sufficient dust control measures to prevent wind-blown dust from causing nuisance or health hazards with water which comply with the quality requirements of the General Authorisation as published in Government Notice 399 of 26 March 2004 table 3.1 (hereafter attached as Annexure IV) or with such quality requirements as from time to time be determined by the Director:RPW



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6 MONITORING

6.1 MONITORING METHODS AND PARAMETERS

6.1.1 The Licence Holder must carry out all tests required in terms of this Licence in accordance with published laboratory analysis methods or those prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act 08 of 2008).

6.1.2 The Licence Holder may use another method of analysis if approved by the Department.

6.2 WATER MONITORING

6.2.1 The Licence Holder must maintain the existing borehole network so that unobstructed sampling, as required in terms of this Licence, can be undertaken. The monitoring boreholes networks for the site must be geographically located as per Annexure II or the latest borehole network approved by the Director:RPW.

6.2.2 Monitoring boreholes must be equipped with lockable caps. The Department and the DWA reserves the right to take water samples at any time and to analyse these samples or have them analysed.

6.2.3 Surface water monitoring shall be performed in all storm water drains adjacent to the site at locations selected in conjunctions with the Director:RPW and such a frequency as determined by the responsible authority.

6.2.4 The information required in terms of condition 6.3.1 and 6.4.1 must be reported annually to the Director following the completion of the last audit report for the year. The information must contain a graphical presentation of all results obtained previously at any specific point, as well as an interpretation and discussion of the results of each monitoring occasion according to the Minimum Requirements (2nd edition 1998) by a registered Geohydrologist.

6.2.5 A monitoring report must be submitted on annual basis to the Department.

6.3 BACKGROUND MONITORING

6.3.1 Samples from the boreholes where the groundwater in the borehole is at an expected higher hydraulic pressure level as the hydraulic pressure level of the groundwater under the site must be considered as background monitoring. Background ground water monitoring must be conducted during each monitoring occasion for the water quality variable listed in Annexure III.



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6.4 DETECTION MONITORING

- 6.4.1 Detection monitoring must be conducted bi-annually according to the water quality variables listed in Annexure III (a) and annually for water quality variables listed in Annexure III (b).

6.5 MONITORING OF LEACHATE IN LEACHATE DETECTION SYSTEMS

- 6.5.1 The Licence Holder shall monitor the volume of leakage of leachate within the leachate detection system on a monthly basis. The Licence Holder shall perform more frequent monitoring should a leak be suspected or identified at the waste disposal facilities.

- 6.5.2 Monitoring of leachate shall be conducted six-monthly for those water quality variables requested by the Director and shall be conducted separately for the leachate collection system of each separate waste disposal cell. This monitoring frequency and the relevant water quality variables shall be reviewed by the Director after one calendar year.

6.6 INVESTIGATIVE MONITORING

- 6.6.1 If, in the opinion of the Director or Director: RPW a water quality variable listed under the detection monitoring programme, as referred to in condition 6.4 above shows an increasing trend, the Licence Holder must initiate a monthly monitoring programme for the water quality variables listed in Annexure III

7. INVESTIGATIONS

- 7.1 If, in the opinion of the Director, environmental pollution, nuisances or health risks may be occurring or is occurring on the Site, the Licence Holder must initiate an investigation into the cause of the problem or suspected problem.

- 7.2 If, in the opinion of the Director and/or Director: RPW, water pollution may be occurring or is occurring the Licence Holder must initiate an investigation into the cause of the problem or suspected problem. Such investigation must include the monitoring of the water quality variables, at those monitoring points and at such frequency as may be specified by Director:RPW.

- 7.3 Should the investigation carried out as per conditions 7.1 and 7.2 above reveal any unacceptable levels of pollution, the Licence Holder must submit mitigation measures to the satisfaction of the Director.

8. RECORDS

- 8.1 The Licence Holder must keep records and update all the information referred to in Annexure VI and submit this information to the Director on an annual basis.

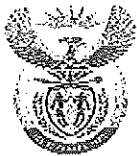


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- 8.2 All records required or resulting from activities required by this licence must:
- (a) Be legible;
 - (b) Be made as soon as reasonably practicable and should form part of the external audit report;
 - (c) If amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable and
 - (d) Be retained in accordance with documented procedures.
- 8.3 The Licence Holder must record all borehole data and chemistry analysis.
- 8.4 Records demonstrating compliance with condition 2.1.1 must be maintained for five (5) years.
9. **REPORTING**
- 9.1 The Licence Holder must, within 24 hours notify the Director of the occurrence or detection of any incident on the Site, or incidental to the operation of the site, which has the potential to cause, or has caused pollution of the environment, health risks, nuisance conditions or water pollution.
- 9.2 The Licence Holder must, within 14 days, or a shorter period of time, if specified by the Director from the occurrence or detection of any incident referred to in condition 9.1, submit an action plan, which must include a detailed time schedule, and resource allocation signed off by top management, to the satisfaction of the Director and/or the Director: RPW of measures taken to –
- a) Correct the impact resulting from the incident;
 - b) Correct the incident from causing any further impact; and
 - c) Prevent a recurrence of a similar incident.
- 9.3 In the event that measures have not been implemented within 21 days of the incident to address impacts caused by the incident referred to in condition 9.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.
- 9.4 The Licence Holder must keep an Incident and complaints register, which must be attached to the external audit report, as well as the Department and DWA for audit purposes.
- 9.5 The Department must be notified without delay in the case of the following:
- a) Any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;
 - b) The breach of this Licence; and
 - c) Any significant adverse environmental and health effects.
- 9.6 The Department must be notified within 14 days of the following changes:
- a) Licence Holder's trading name, registered name or registered office address;



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- b) Particulars of the licence Holder's ultimate holding company (including details of an ultimate holding where a licence holder has become a subsidiary;
- c) Steps taken with a view to the Licence Holder, or any one of them, going into bankruptcy, entering into composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

9.7 Each external audit report referred to in condition 10.2 below must be submitted to the Director within 30 days from the date on which the external auditor finalised the audit report.

10. AUDITING

10.1 INTERNAL AUDITS

10.1.1 Internal audits must be conducted biannually by the Licence Holder and on each audit occasion an official report must be compiled by the relevant auditor to report the findings of the audits, which must be made available to the external auditor specified in condition 10.2.1.

10.2 EXTERNAL AUDITS

10.2.1 The Licence Holder must appoint an independent external auditor to audit the site annually and the auditor must compile an audit report documenting the findings of the audit, which must be submitted by the licence holder according to condition 9.7 above.

10.2.2 The audit report must:

- a) Specifically state whether conditions of this licence are adhered to.
- b) Include an interpretation of all available data and test results regarding the operation of the site and all its impacts on the environment.
- c) Specify target dates for the implementation of the recommendations by the Licence Holder to achieve compliance.
- d) Contain recommendations regarding non-compliance must specify target dates for the implementation of the recommendations by the Licence Holder and whether corrective action taken for the previous audit non conformities was adequate.
- e) Show monitoring results graphically and conduct trend analysis.

10.3 DEPARTMENTAL AUDITS AND INSPECTIONS

10.3.1 The Department reserves the right to audit and/or inspect the Site without prior notification at any time and frequency as may be determined by the Director.

10.3.2 The Licence Holder must make any records or documentation available to the Director upon request, as well as any other information he/she may require.



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11. LEASING AND ALIENATION OF THE SITE

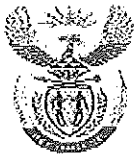
- 11.1 Should the Licence Holder want to alienate or lease the site, he/she must notify the Director in writing of such an intention at least 120 days prior to the said transaction.
- 11.2 Should the approval be granted, the subsequent Licence Holder shall remain liable for compliance with all licence conditions.

12. TRANSFER OF A WASTE MANAGEMENT LICENCE

- 12.1 Should the Licence Holder want to transfer the Licence, he/she must apply in terms of Section 52 of the National Environmental Management: Waste Act, 2008 (Act No 59 of 2008).
- 12.2 Any subsequent Licence Holder shall be bound by conditions of the licence.

13. GENERAL

- 13.1 This Licence shall not be transferable unless such transfer is subject to condition 12.1.
- 13.2 This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of any National and Provincial Legislation and any relevant Ordinance, Regulation, By-laws or relevant National Standards and norms.
- 13.3 Transgression of any condition of this Licence could result in the validity of the Licence being terminated by the Department.
- 13.4 Non-compliance with a condition of this Licence may result in criminal prosecution or other actions provided for in Section 67 (1) of the National Environmental Management: Waste Act, 2008.
- 13.5 Any committees appointed in terms of the application or any other public authority or organisation shall not be held responsible for any damages or losses suffered by the Licence Holder or his/her successor in title in any instance where construction or operation are to be temporarily or permanently stopped for reasons of non-compliance.
- 13.6 In terms of section 28 and 30 of the National Environmental Management Act No. 107 of 1998, and section 19 and 20 of the National Water Act No. 36 of 1998, any costs incurred to remedy environmental damage must be borne by the person responsible for the damage. It is therefore imperative that the Licence Holder reads through and understand the legislative requirements pertaining to the project. It is the Applicant's responsibility to take reasonable measures which include informing and educating contractors and employees about environmental risks of their work and training them to operate in an environmental acceptable manner.



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- 13.7 This Licence is valid for a period of twenty (20) years and shall be reviewed every ten (10) years from the date of issue or at any time before or after that date. Based on the results of the review, especially compliance to Licence conditions or recommendations from the audit reports and or changing legislation, the Licence could be amended or withdrawn or validity thereof extended.

MR MARK GORDON
DEPUTY DIRECTOR-GENERAL: CHEMICALS AND WASTE MANAGEMENT
DATE: 21-06-2013



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ANNEXURE I

SALDANHA STEEL CO-ORDINATES: CONDITION 1.1.2

A. BRINE EVAPORATION PONDS

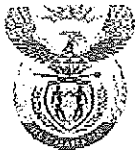
Number of corner	Latitude	Longitude
1	-32° 58' 54.4489"	17° 59' 54.1638"
2	-32° 58' 53.1312"	18° 01' 43.6322"
3	-32° 59' 02.4923"	17° 59' 54.0714"
4	-32° 59' 01.1917"	18° 01' 45.3032"

B. SLAG DISPOSAL AREA A

Number of corner	Latitude	Longitude
1	-32° 59' 24.1123"	18° 01' 53.2765"
2	-32° 59' 18.2059"	18° 01' 45.7799"
3	-32° 59' 19.6066"	18° 01' 52.0911"
4	-32° 59' 26.2250"	18° 01' 50.8463"
5	-32° 59' 26.2692"	18° 01' 43.1307"
6	-32° 59' 19.2099"	18° 01' 17.3565"
7	-32° 59' 13.9625"	18° 00' 59.0914"
8	-32° 59' 10.6334"	18° 00' 55.136"
9	-32° 59' 05.8132"	18° 00' 54.9965"
10	-32° 59' 02.0179"	18° 00' 57.6494"
11	-32° 59' 01.0338"	18° 01' 04.1103"
12	-32° 59' 10.1481"	18° 01' 15.6440"
13	-32° 59' 07.3278"	18° 01' 05.7301"

C. SLAG DISPOSAL AREA B

Number of corner	Latitude	Longitude
1	-32° 58' 55.9425"	18° 01' 57.0865"
2	-32° 59' 00.2487"	18° 02' 03.7290"
3	-32° 59' 06.2647"	18° 02' 05.9088"
4	-32° 59' 20.9330"	18° 02' 02.0790"
5	-32° 59' 23.2210"	18° 01' 58.3344"
6	-32° 59' 19.1386"	18° 01' 55.4185"
7	-32° 59' 07.4110"	18° 01' 56.2873"



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8	-32° 59' 00.5998"	18° 01' 55.8745"
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D. SOLID WASTE DISPOSAL FACILITY

Number of corner	Latitude	Longitude
1	-32° 58' 24.0874"	17° 59' 54.5057"
2	-32° 58' 24.0764"	17° 59' 54.5008"
3	-32° 58' 24.0754"	17° 59' 54.5016"
4	-32° 58' 24.0699"	17° 59' 54.5001"
5	-32° 59' 03.5007"	18° 01' 34.2849"
6	-32° 59' 01.7830"	18° 01' 44.3239"
7	-32° 59' 14.3989"	18° 01' 36.9091"
8	-32° 59' 12.6818"	18° 01' 46.9489"
9	-32° 59' 24.0679"	17° 59' 54.4955"
10	-32° 58' 24.0669"	17° 59' 54.4936"
11	-32° 58' 24.0675"	17° 59' 54.4936"

E. CENTRAL SORTING YARD AND TREATMENT AREA

Number of corner	Latitude	Longitude
1	-32° 58' 24.0789"	17° 59' 54.4911"
2	-32° 58' 24.0767"	17° 59' 54.5027"
3	-32° 58' 24.0803"	17° 59' 54.5038"
4	-32° 58' 24.0812"	17° 59' 54.4915"

F. SLAG AND FERROUS METAL HANDLING AREA

Number of corner	Latitude	Longitude
1	-32° 58' 24.0843"	17° 59' 54.5199"
2	-32° 58' 24.0749"	17° 59' 54.5177"
3	-32° 58' 24.0715"	17° 59' 54.5066"
4	-32° 58' 24.0725"	17° 59' 54.5066"
5	-32° 58' 24.0738"	17° 59' 54.5023"



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ANNEXURE II

GEOGRAPHICAL LOCATION OF BOREHOLES MONITORING NETWORKS: CONDITION:

6.2.1

Borehole Number	Latitude	Longitude
M1	-32° 59' 23.7471"	18° 01' 58.6168"
M3	-32° 59' 27.7712"	18° 01' 54.5270"
M4	-32° 59' 27.7878"	18° 01' 58.5729"
M5	-32° 59' 14.5964"	18° 01' 45.5064"
M6	-32° 59' 15.6684"	18° 01' 39.2146"
M7	-32° 59' 15.1284"	18° 01' 42.4110"
M8	-32° 58' 58.4478"	18° 01' 40.8002"
M11	-32° 58' 56.9960"	18° 01' 00.3934"
M13	-32° 58' 26.7968"	18° 02' 07.4192"
M14	-32° 58' 31.5229"	18° 02' 31.3704"
M15	-32° 58' 12.8315"	18° 02' 19.7074"
M16	-32° 58' 13.7008"	18° 02' 28.9917"
M17	-32° 59' 48.3247"	18° 01' 37.3558"
M19	-32° 58' 49.5500"	18° 00' 50.2267"
M20	-32° 59' 09.4342"	18° 00' 38.9073"
M21	-32° 59' 14.9150"	18° 00' 59.0674"
M22	-32° 59' 13.8431"	18° 00' 53.6773"
M23	-32° 59' 48.3435"	18° 01' 37.9388"
M24	-32° 59' 48.3296"	18° 01' 37.7425"
M25	-32° 59' 48.3360"	18° 01' 37.5548"
M26	-32° 58' 13.2565"	18° 02' 20.0140"
M27	-32° 58' 13.1129"	18° 02' 19.9069"
M28	-32° 58' 12.9770"	18° 02' 19.8044"
CENTRE	-32° 57' 59.8537"	18° 01' 29.7208"
M29	-32° 58' 16.6599"	18° 01' 41.1750"
M30	-32° 59' 27.9912"	18° 01' 42.2226"
M31	-32° 59' 28.1024"	18° 01' 46.3915"
M32	-32° 59' 28.0264"	18° 01' 38.9379"
M33	-32° 59' 15.2612"	18° 00' 57.7738"
M34	-32° 59' 09.6349"	18° 01' 18.2177"
M35	-32° 59' 05.0564"	18° 01' 30.3904"
M36	-32° 59' 06.4745"	18° 01' 31.7787"
M37	-32° 59' 06.8117"	18° 01' 07.0918"
M38	-32° 59' 00.6364"	18° 01' 00.2119"
M39	-32° 58' 57.5237"	18° 00' 57.8204"
M40	-32° 58' 47.8747"	18° 01' 07.7430"



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ANNEXURE III

WATER QUALITY VARIABLES REQUIRED FOR BACKGROUND, DETECTION AND INVESTIGATIVE MONITORING: CONDITIONS 6.3.1, 6.4.1 and 6.6.1

(a) Biannual

Ammonium (NH_4^+)
Calcium (Ca)
Magnesium (Mg)
Chloride (Cl)
pH
Sodium (Na)
Nitrate (as N) ($\text{NO}_3\text{-N}$)
Potassium (K)
Nitrite (NO_2)
Sulphate (SO_4^{2-})
Fluoride (F)
Phosphate (PO_4)
Cyanide (CN^-)
Dissolved Organic Carbon (DOC)

(b) Annual Monitoring

Manganese (Mn)
Copper (Cu)
Lead (Pb)
Cadmium (Cd)
Mercury (Hg)
Arsenic (As)
Nickel (Ni)
Chrome (Cr)
Iron (Fe)
Zinc (Zn)
Silver (Ag)
Aluminium (Al)
Tin (Sn)



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ANNEXURE IV CONDITION 5.2.6

TABLE 3.1: Wastewater limit values applicable to discharge of wastewater into a water resource

SUBSTANCE/PARAMETER	GENERAL LIMIT	SPECIAL LIMIT
Faecal Coliforms (per 100 ml)	1 000	0
Chemical Oxygen Demand (mg/l)	75 (i)	30 (i)
pH	5,5-9,5	5,5-7,5
Ammonia (ionised and un-ionised) as Nitrogen (mg/l)	6	2
Nitrate/Nitrite as Nitrogen (mg/l)	15	1,5
Chlorine as Free Chlorine (mg/l)	0,25	0
Suspended Solids (mg/l)	25	10
Electrical Conductivity (mS/m)	70 mS/m above intake to a maximum of 150 mS/m	60 mS/m above background receiving water, to a maximum of 100 mS/m
Ortho-Phosphate as phosphorous (mg/l)	10	1 (median) and 2,5 (maximum)
Fluoride (mg/l)	1	1
Soap, oil or grease (mg/l)	2,5	0
Dissolved Arsenic (mg/l)	0,02	0,01
Dissolved Cadmium (mg/l)	0,005	0,001
Dissolved Chromium (VI) (mg/l)	0,05	0,02
Dissolved Copper (mg/l)	0,01	0,002
Dissolved Cyanide (mg/l)	0,02	0,01
Dissolved Iron (mg/l)	0,3	0,3
Dissolved Lead (mg/l)	0,01	0,006
Dissolved Manganese (mg/l)	0,1	0,1
Mercury and its compounds (mg/l)	0,005	0,001
Dissolved Selenium (mg/l)	0,02	0,02
Dissolved Zinc (mg/l)	0,1	0,04
Boron (mg/l)		10,5



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ANNEXURE V

WASTE WHICH MAY NOT BE ACCEPTED ON THE SITE: CONDITION 3.1

1. Waste where specific control has been established in terms of the Nuclear Energy Act, 1999 (Act 46 of 1999).
2. Waste types controlled in terms of the Minerals and Petroleum Resources Development Act, 2002 (Act 28 of 2002) and the Electricity Act, 1987 (Act 41 of 1987), Nuclear Energy Act, 1999 (Act 46 of 1999), unless written permission has been obtained from the Director.
3. Waste which is defined, according to the Minimum Requirements, as an extreme hazard or Hazard Group 1 (HG1); high hazard or Hazard Group 2 (HG2); moderate hazard or Hazard Group 3 (HG3) and low hazard or Hazard Group 4 (HG4), unless an application for delisting has been successfully submitted to the Director and written approval was obtained from the Director for the disposal of this waste on the Site.
4. Flammable wastes, with a closed cup flash point less than 61°C.
5. Corrosive substances, as defined and described in the Minimum Requirements as Class 8 (1998 edition; page 6-8, Diagram III).
6. Oxidising substances and organic peroxides, as defined and described in the Minimum Requirements as Class 5 (1998 edition; page 6-8, Diagram III).
7. Any waste with a substance which is a Group A and/or Group B carcinogen/mutagen. Group A carcinogens/mutagens have been proven in humans, both clinical and epidemiological. Group B carcinogens/mutagens have been proven without doubt in laboratory animals.
8. Any waste with a substance at a concentration greater than 1% where the substance is a Group C and/or Group D carcinogen/mutagen. Group C carcinogens/mutagens have shown limited evidence in animals. Group D carcinogen/mutagen - the available data is inadequate and doubtful.
9. Any infectious waste which is generated during the diagnosis, treatment or immunisation of humans or animals; in the research pertaining to this; in the manufacturing or testing of biological agents including blood, blood products and contaminated blood products, cultures, pathological wastes, sharps, human and animal anatomical wastes and isolation wastes that contain infectious substances.
10. All materials which fall in Class 1 (explosives), Class 2 (compressed gases) and Class 7 (radioactive materials), as defined and described in the Minimum Requirements.
11. Any waste with a pH less than 6 or greater than 12.



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12. Any waste which is difficult to analyse and classify.
13. Any complexes of heavy metal cations, paint and paint sludges, or laboratory chemicals.
14. Organic or inorganic element or compound which may have a definite acute or chronic negative effect on human health and/or the environment, due to its toxic, physical, chemical or persistent characteristics;
15. Medical waste; and
16. Scheduled pharmaceutical products registered in terms of the Medicines and Related Substances Control Act, 1965 (Act 101 of 1965) or associated containers, are disposed of on the Site.



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ANNEXURE VI
INFORMATION WHICH SHALL BE SUBMITTED ON AN ANNUAL BASIS:
CONDITIONS 5.2.2 AND 8.1

* = Indicate with an X. Please print legibly.

NAME OF SITE: _____ DATE OF REPORT: _____
(yy/mm/dd)

1. Registered owner(s) of property on which waste management facilities are situated:

Name	Telephone	
Postal Address	Fax	
	Postal Code	

2. Operator in control of waste management facilities:

Name	Telephone	
Identity number	After hours	
Educational Qualifications (*)		

3. Latest estimated lifetime of the waste management facilities: _____ yr.

4. Indicate the type of waste and approximate quantities of waste stored, sorted treated and deposited on site during the year:

Type of waste	Quantity (in tonnes)	Solid	Residual
Non-hazardous waste			
Other (not hazardous) - (specify)			
TOTAL			

5. Indicate the applicable waste types and quantities reclaimed during the year (*)

Reclaiming undertaken?	Yes	No			
Type	Company sold/given to	Quantity (m³)	Type	Company sold/given to	Quantity