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1 PURPOSE

This document supports IMS Element 8: Environment Standard, Doc No 012513194

2 SCOPE

This Monitoring Program (MP) describes environmental monitoring activities undertaken by BHP Olympic Dam Corporation Pty Ltd (ODC) for the purpose of quantifying any change in the extent or significance of impacts of the Olympic Dam operation on soil and groundwater from waste facilities, assessing the performance of the control measures employed to limit these impacts, and meeting relevant legal and other requirements.

This MP addresses a number of distinct elements of waste monitoring. For each element, the MP sets out some background information, the purpose of the monitoring and the deliverables which are produced as a result of the monitoring. The MP also includes a description of the methods for measuring achievement of compliance criteria and the movement of trends towards leading indicators (where applicable). This MP addresses the monitoring of environmental aspects such as the release of contaminants to land and groundwater from site waste facilities, which through their interaction with the environment have the potential to cause impacts. The process of quantifying any change in the extent or significance of impacts of the Olympic Dam operation on groundwater is described in the Groundwater Monitoring Program Document No. 36173.

The definition of waste within this MP is any solid, liquid or gas (or combination thereof) that is left over, surplus or an unwanted by-product from business or domestic activity, regardless of economic value. Olympic Dam produces a number of solid and liquid waste streams, some of which are characterised by significant metal concentrations, low-level radioactivity and/or low pH values. The facilities to manage these waste streams are described in Table 2-1.

Table 2-1: Summary of Olympic Dam waste management facilities

<table>
<thead>
<tr>
<th>Waste management facility</th>
<th>Facility description</th>
<th>Waste stream(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tailings Storage Facility (TSF)</td>
<td>Three cells (Cells 1, 2, 3) totalling 190 hectares (ha) in area and 28.5-30m in height</td>
<td>Miscellaneous hazardous and low-level radioactive wastes (LLRW).</td>
</tr>
<tr>
<td></td>
<td>One cell (Cell 4) totalling 190ha in area and 27 metres (m) in height</td>
<td>Tailings slurry from the metallurgical plant. Miscellaneous hazardous and LLRW.</td>
</tr>
<tr>
<td></td>
<td>One cell (Cell 5) totalling 260 ha in area and RL132 AHD (30m in height)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>One cell (TSF6) totalling 285 ha in area which was commissioned in 2021</td>
<td></td>
</tr>
<tr>
<td>Evaporation Ponds (EPs)</td>
<td>Six ponds (EP 1, 2, 3, 4, 5 and 6) comprising 10 cells and totalling an area of 196 ha. The ponds range in depth from 4.2 to 8.3 m</td>
<td>Excess liquor from the TSF and the metallurgical plant.</td>
</tr>
<tr>
<td>Mine Water Disposal Pond (MWDP)</td>
<td>One cell totalling 35 ha in area and up to 3 m in depth</td>
<td>Excess saline groundwater pumped from the mine dewatering system.</td>
</tr>
<tr>
<td>Site sewage ponds</td>
<td>One clay and HDPE lined Primary Sewage Lagoon and two clay and High-density polyethylene (HDPE) lined evaporation ponds (Sewage EP1 and Sewage EP2).</td>
<td>Sewage</td>
</tr>
<tr>
<td>Olympic Village sewage ponds</td>
<td>• One HDPE lined primary lagoon • One clay lined primary lagoon • Two clay lined secondary lagoons • Two clay lined holding lagoons • Two clay lined evaporation ponds. • The facility was upgraded during FY13.</td>
<td>Sewage</td>
</tr>
</tbody>
</table>
### Waste management facility

<table>
<thead>
<tr>
<th>Facility description</th>
<th>Waste stream(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource Recovery Centre (RRC)</td>
<td>General solid wastes which are not practicable or cost-effective to reuse or recycle.</td>
</tr>
<tr>
<td>Designated recycling storage areas.</td>
<td>Recoverable materials for reuse and/or recycling.</td>
</tr>
<tr>
<td>Pilot Plant</td>
<td>Laboratory waste and Personal protective equipment (PPE) storage area.</td>
</tr>
<tr>
<td>Contaminated waste disposal facility (CWDF)</td>
<td>Approved structural contaminated waste disposal facility.</td>
</tr>
<tr>
<td></td>
<td>Contaminated plant and equipment not suitable for disposal in the TSF or landfill.</td>
</tr>
</tbody>
</table>

#### 2.1 Responsible ODC personnel

ODC employs a Statutory Radiation Safety Officer acceptable to the Radiation Protection Division of the Environment Protection Authority (EPA), to establish, maintain and fulfil the requirements of this MP, thereby fulfilling its obligation with respect to clause 2.10.1(d) of the Code of Practice and Safety Guide for Radiation Protection and Radioactive Waste Management in Mining and Mineral Processing (2005) (MC 2.10.1d, MC 2.10.1f). ODC also employs other staff with the necessary experience and qualifications to fulfil the requirements of this MP.

#### 2.2 Review and modification

This MP is reviewed annually. Major changes or amendments following the review are documented in the EMP Annual Targets, Actions and Major Changes, Document No. 114697. It should be noted that as a result of operational activities or through optimisation of sample design some existing monitoring sites may be lost and others added (where possible) to maintain the integrity of the sampling program. Access restrictions can result in some sites occasionally being unable to be monitored.
Figure 2.1: Location of Olympic Dam waste management facilities
3 DETAILED PROCEDURE

3.1 Tailings Storage Facility

3.1.1 Background

Tailings generated from the hydrometallurgical plant are pumped as a slurry from the tailings disposal surge tanks to the TSF. The tailings are discharged onto the TSF cells via spigot off-takes from the tailings distribution pipework located at the crest of the perimeter embankments of each cell of the TSF.

Other miscellaneous hazardous or Low Level Radioactive Waste (LLRW) is also delivered to the TSF as a solid, slurry or liquid.

External perimeter embankments of the TSF are constructed using clayey soil, sand, crushed rock and tailings. The outer face is covered with rock armouring for erosion protection and the crest is covered with a crushed road base material to provide a trafficable surface.

The design, construction and operation of the TSF ensure stability under seismic loading, minimise seepage of liquor as far as practicable and minimise erosion on the outer face.

Refer to Tailings Retention System (TRS) Management Plan, Document No. 70039 for more detail.

3.1.2 Purpose

- Monitor the operation and performance of the TSF to identify potential for adverse environmental impact on soil and groundwater quality.

3.1.3 Deliverable(s)

- Monitoring data showing the size and location of the supernatant liquor ponds in each TSF cell on a monthly basis (EPA 1301.U-535).
- Monitoring data showing the rate of rise of tailings in each TSF cell.
- Monitoring data showing the pore pressures within tailings adjacent to the external walls of the TSF.

3.1.4 Method

The monitoring of tailings deposition is conducted in accordance with the TRS Operation, Maintenance and Surveillance Manual, Document No 73019, and the TRS Management Plan, Document No 70039.

The TRS Management Plan incorporates:

- Detailed description of the TRS
- Production Plan
- Tailings Storage Plan
- Liquor Management Plan
- Monitoring and Surveillance Plan
- Licensing Plan
- Decommissioning and Closure Plan

A detailed estimate of the location and area of the supernatant liquor pond in each TSF cell is carried out monthly. On a quarterly and annual basis aerial imagery for TSF 5 provides accurate pond area calculations and pond liquor locations (EPA 1301 3.12(U-535)). Note that BHP and EPA are currently working together to review EPA 1301 including consideration of the newly commissioned TSF6.

The rate of rise of tailings is determined using tailings deposition records and quarterly surveys of the tailings beach at the perimeter of each TSF cell prior to each tailings embankment raise.
Piezometers are in place to monitor the pore pressures within the tailings adjacent to the TSF embankments. Piezometers are monitored every two months whilst selected locations are monitored every three weeks.

Piezometers used include standpipe and vibrating wire piezometers. Additional or replacement piezometers are installed from time to time as required. The locations of existing piezometers are shown in Figure 2, Figure 3, Figure 4 and Figure 5.

It is noted that pore pressures vary depending on the location and depth of the piezometers and over the life of the facility as the height of the tailings beach is progressively increased. Pore pressures are monitored and reviewed on a regular basis by operations personnel and during the annual desktop geotechnical review and operational review by an independent tailings consultant.

Any abnormal trends identified by operations personnel or the tailings consultant are investigated and, where required, additional slope stability analysis is carried out to confirm compliance with Australian National Committee on Large Dams (ANCOLD) guidelines.

An annual water balance is calculated from monthly data for the TSF to assess the ongoing liquor disposal requirements. Data used includes estimates of tailings production and average tailings slurry density, daily volumes of supernatant liquor decanted to the EPs, daily records of rainfall and pan evaporation, flows into and within the EPs and daily liquor levels in the EPs (EPA 1301 (U-518)).

An annual operational audit and desktop geotechnical review is performed for the TSF by an independent tailings consultant.
Figure 3-1: Location of piezometers on TSF Cells 1, 2, 3
Figure 3-2: Location of piezometers on TSF Cell 4
Figure 3-3: Location of piezometers on TSF Cell 5
Figure 3-4: Location of Piezometers on TSF Cell 6
3.2 Evaporation Ponds

3.2.1 Background

ODC operates six Evaporation Ponds (EPs) with EP6 having been commissioned in 2021. Their principal function is the storage and evaporation of surplus tailings liquor decanted from the TSF.

The crests of the EPs are profiled so that there is a uniform cross fall from the outer edge to the inner edge of each cell and a constant level is maintained around the perimeter of each cell. A bund is included on the outer edge as a contingency to contain any liquor that overtops the ponds due to wind and wave action.

Liquor evaporates and concentrates in the evaporation cells, resulting in precipitation of solids, principally iron sulphate. EP2 was taken out of service due to a high level of precipitated solids resulting in inadequate freeboard for their continued operation, whilst EP1 receives occasional flows from pipe descaling activities. The walls of EP1 and EP2 were raised by 2 m and returned to service. EP3 had a wall raise to increase the wall height by 5 m from RL 102.5 m to RL 107.5 m and was returned to service. EP5B is currently out of operation due to failure of the HDPE geomembrane liner.

3.2.2 Purpose

- Monitor the operation and performance of the EPs to confirm that they are operating as designed, and to prevent adverse impact on soil and groundwater quality.
- Monitor the liquor inventory in the EPs to assess the evaporation capacity of the ponds and assist in liquor management within the TRS.

3.2.3 Deliverables

- Monitoring data showing the liquor level in each cell of the EPs.
- Monitoring data showing the overall (solids and liquor) inventory in the EPs.
- Results of a liquor balance for each EP cell.

3.2.4 Method

EP levels are measured using a combination of laser, radar and manual survey measurements, depending on the level of solids build-up in the cell and access provisions in each cell (e.g. stilling wells or jetty). EPs are inspected and liquor levels recorded daily. Stored volume (liquor and solids) is calculated from daily liquor level measurements to enable freeboard and overall EP (solids and liquor) inventory to be determined.

A liquor balance is performed to highlight cells with potential significant leaks by comparison of the apparent evaporation from each cell of each EP.

3.3 Mine Water Disposal Pond

3.3.1 Background

Water pumped from the Olympic Dam underground workings originates predominantly from the Tent Hill aquifer, which is fractured in its lower sections and yields water into the mine ventilation shafts, decline, haulage shafts and drill holes. The ore-body and its host rocks generate little or no groundwater flows into the workings.

Water collected from the mine is pumped to the mine water settling ponds to let the slimes and fine particles settle. Water levels of the ponds are monitored via Citect. Settled sludge is removed and disposed of to the TSF and the settled water is reused on-site for dust suppression, soil conditioning during construction and underground mining activities or is discharged to the Mine Water Disposal Pond (MWDP) for subsequent evaporation and recharging of the Andamooka Limestone aquifer.

3.3.2 Purpose

- To provide data related to the operation and performance of the MWDP.
3.3.3 Deliverable(s)
- Records of ground water levels in the vicinity of the MWDP.
- Records of quantities of water disposed of into the MWDP.

3.3.4 Method
Water levels and quantities disposed of into the MWDP pond are monitored in Citect and Ajenti and captured in the Mine Water Balance.

3.4 Site and Olympic Village Sewage Ponds

3.4.1 Background
Olympic Dam operates two separate sewage and waste water facilities. The onsite sewage facility consists of a HDPE lined primary lagoon and two larger HDPE lined evaporation ponds (EPA Licence 1301). The facility at Olympic Dam Village consists of a lined primary lagoon and seven anaerobic ponds managed under a separate EPA Licence 3054. Their principal function is to contain and facilitate the anaerobic treatment of sewage from the metallurgical plant, mine and Olympic Village.

3.4.2 Purpose
- Monitor the operation of the sewage ponds to minimise impact on soil and groundwater quality.

3.4.3 Deliverable(s)
- Records of pond levels and pond wall condition.

3.4.4 Method
Sewage ponds are monitored regularly to identify potential for adverse environmental impact. Pond walls are inspected for any abnormalities and pond levels are measured and recorded. Samples are also taken quarterly to ensure sewer ponds are operating effectively.

3.5 Resource Recovery Centre

3.5.1 Background
Industrial and general waste materials generated at Olympic Dam are managed through the Resource Recovery Centre (RRC), which is located north-west of the smelter and south of the quarry (see Figure 1). Dedicated areas within the RRC allow waste streams to be segregated and temporarily stockpiled for offsite recycling or disposal. Recovered material is cleaned and undergoes a formal radiation clearance procedure prior leaving the site.

Material which cannot be reused or recycled is disposed of to the landfill facility (Landfill Environmental Management Plan, Document No. 72375), which is also located within the RRC. At the landfill face, waste materials are deposited and covered with clean fill material to facilitate containment of waste (EPA Licence 1301.3.3(T-1036)). The RRC is enclosed on all sides by either a mesh fence topped with strands of barbed wire or a bund. This is designed to restrict unauthorised access and function as a secondary litter containment control.

Hazardous waste unsuitable for disposal within the Special Mining Lease (SML) is transported off-site to an appropriately licenced waste depot for further treatment, recycling or disposal, as discussed in section 32.

3.5.2 Purpose
- Monitor the disposal and recovery of industrial and general wastes to identify opportunities to minimise the use of natural resources.

3.5.3 Deliverable(s)
- Records of quantities of general and industrial waste disposed of to landfill.
- Records of quantities of material recovered for reuse and recycling.
3.5.4 Method

Waste materials generated across site are collected by the waste management contractor using a colour coded bin system to assist early segregation. At the time of collection, the vehicle operator records the type, quantity and location of the material and collection location, where appropriate. In cases where material is delivered to the RRC by operations personnel, the quantity, type and source of the material is recorded at the RRC office prior to acceptance of the waste at the RRC.

The waste management contractor manages the processes associated with the acceptance, segregation, storage, recovery and disposal of all waste materials entering the RRC waste management streams. Records of wastes are maintained on a shared data spreadsheet owned by BHP but maintained by the waste contractor.

Olympic Dam records:
- Quantities of general waste disposed to landfill;
- Quantities and types of recyclable materials collected and sent offsite;
- Quantities of steel sent to the Contaminated Waste Disposal Facility (CWDF);
- Radiation clearance, and waste tracking certificate completion.

A landfill audit is conducted (Landfill Waste Auditing, Document No. 47585) every 2 years or as required to monitor the effectiveness of waste management. The audit results can be used to assess the performance of reuse and recycling initiatives and to identify new opportunities for reuse or recycling.

Quarterly and annual legislative audits are undertaken to assess the operational compliance against guidelines.

Refer to the following documents:
- Quarterly RRC and CWDF Legislative Compliance Audit, Document No. 118782;
- Annual RRC and CWDF Legislative Compliance Audit, Document No. 121555.

The waste and operational data collected during the audits are compared to relevant regulatory guidelines such as prohibited waste to landfill according to schedule 4 of the Environment Protection (Waste to Resources) Policy 2010 under the Environment Protection Act 1993, and appropriate management actions are undertaken to ensure compliance with the relevant storage criteria.

The storage of waste tyres will be assessed annually to ensure storage is according to the Built Environ Section Guideline No. 13 – General Guidelines for Rubber Tyre Storage, issued by the South Australian Fire Authorities Community Safety Department.

3.6 Miscellaneous hazardous wastes

3.6.1 Background

Miscellaneous hazardous wastes such as laboratory chemicals, process chemicals and process waste materials are generated as a by-product of processing activities. These wastes are managed in accordance with the following documents to ensure their safe disposal and treatment:

- Landfill Environmental Management Plan, Document No. 72375;
- Laboratories - Waste Disposal, Document No. 36871;
- Notification of Contaminated / Hazardous Waste for Disposal to TRS, Document No. 121470;

Hazardous waste unsuitable for disposal within the SML is transported off-site to an appropriate waste depot for further treatment, recycling or disposal. For off-site disposal, hazardous waste categorised as listed waste (within the meaning of the Environment Protection Act) is transported by an EPA licensed transporter to an EPA licensed waste depot in accordance with EPA guidelines for waste transport and tracking (EPA Licence 1301.2.1 (S-166)).

3.6.2 Purpose

- Provide data to assist in the management of miscellaneous hazardous wastes in an appropriate manner.
3.6.3 Deliverable(s)

- Records of categories, quantities and location of hazardous waste materials disposed of within the SML.
- Records to provide evidence that listed waste is appropriately managed, specifically:
  - That listed waste is stored, contained and treated in a manner that does not cause environmental harm or nuisance or present risks to human health and safety;
  - That all listed waste storage containers are of a suitable strength and durability, are clearly marked and contain appropriate safety warnings; and
  - That all listed wastes do not contact soils or stormwater, and that measures to prevent and recover spillages are implemented as necessary.

3.6.4 Method

Olympic Dam maintains systems to record categories, quantities and the location of hazardous waste materials disposed of within the SML. The waste management contractor is responsible for maintaining such records, which are entered into an electronic register (including LLRW, CWDF and TRS).

The transport of hazardous waste off-site is documented through the EPA waste transport and tracking system as required, providing assurance to regulators that wastes are managed appropriately.

3.7 Low-level radioactive waste

(MC 2.8.2(e))

3.7.1 Background

There are two general forms of radioactive waste produced at Olympic Dam being:

- Waste from process material, process residues or samples that contain radionuclides from the orebody.
- Plant equipment that has been contaminated with radionuclides from the ore body during the processing of the mined ore. Each of these categories is managed differently.

Materials that contain radionuclides are generally disposed of in the TSF, providing they met the disposal requirements under the Notification of Contaminated / Hazardous Waste for Disposal to TRS, Document No. 121470. However, some bulk samples are managed separately.

Contaminated plant and equipment is disposed to the CWDF which is managed according to the Contaminated Waste Management Plan, Document No. 114827.

Off-site laboratory waste and PPE has EPA approval to be temporarily stored at the Pilot Plant prior to being disposed to the TSF (TRS Waste Management Plan, Document No. 120151) or the CWDF.

3.7.2 Purpose

- Provide data to assist in the management of LLRW from the Olympic Dam Operation.

3.7.3 Deliverable(s)

- Records of the categories, quantities, radiation levels and location of LLRW stored within the SML.

3.7.4 Method

Olympic Dam maintains systems to record categories, quantities and locations of LLRW disposed of or stored within the SML. The waste management contractor is responsible for maintaining such records, within an electronic register. The location, type and quantity of material and its disposal is recorded.
4  COMMITMENTS

4.1  Reporting
The results and a discussion of the results are presented in the annual EPMP report as outlined in the Environmental Management Manual (EMM).

4.2  Summary of commitments

<table>
<thead>
<tr>
<th>Action</th>
<th>Parameter</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monitor</td>
<td>EP liquor levels</td>
<td>Daily</td>
</tr>
<tr>
<td>Monitor</td>
<td>Sewage ponds to identify potential for adverse environmental impact</td>
<td>Weekly</td>
</tr>
<tr>
<td>Monitor</td>
<td>Overall (solids and liquor) inventory in EPs</td>
<td>Monthly</td>
</tr>
<tr>
<td>Monitor</td>
<td>Size and location of the supernatant liquor pond in each TSF cell</td>
<td>Monthly</td>
</tr>
<tr>
<td>Monitor</td>
<td>Tailings pore pressures</td>
<td>Monthly</td>
</tr>
<tr>
<td>Monitor</td>
<td>Sewage Pond sampling to ensure effective operation</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Monitor</td>
<td>Rate of rise of tailings in each TSF cell</td>
<td>Annually</td>
</tr>
<tr>
<td>Calculate</td>
<td>Liquor balance for each evaporation cell</td>
<td>Monthly</td>
</tr>
<tr>
<td>Calculate</td>
<td>Water balance for the TSF</td>
<td>Annually</td>
</tr>
<tr>
<td>Conduct</td>
<td>Independent audit of the TSF</td>
<td>Annually</td>
</tr>
<tr>
<td>Conduct</td>
<td>Landfill audit detailing composition of waste</td>
<td>As Required</td>
</tr>
<tr>
<td>Maintain</td>
<td>Register of industrial and general waste disposal and recovery</td>
<td>Continuous</td>
</tr>
<tr>
<td>Maintain</td>
<td>Register of hazardous waste disposal (for wastes disposed of within the SML)</td>
<td>Continuous</td>
</tr>
<tr>
<td>Maintain</td>
<td>Register of LLRW /Contaminated Waste for disposal (for wastes disposed of within the SML)</td>
<td>Continuous</td>
</tr>
<tr>
<td>Report</td>
<td>Monitoring results in the annual EPMP report to the Indenture Minister</td>
<td>Annually</td>
</tr>
<tr>
<td>Review</td>
<td>The Waste MP and modify as appropriate</td>
<td>Annually</td>
</tr>
</tbody>
</table>

5  DEFINITIONS AND REFERENCES

5.1  Definitions
Throughout the EPMP some terms are taken to have specific meaning. These are indicated in bold text in the documentation and are defined in the glossary in section 3 of the EMM. Defined terms have the same meaning wherever they appear in bold text. Some other terms and acronyms are also defined in the glossary, but do not appear in bold text.

5.2  References

Built Environ Section Guideline No. 13 – General Guidelines for Rubber Tyre Storage, issued by the South Australian Fire Authorities Community Safety Department, revision date 28 July 2014.