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| --- | --- | --- |
|  | |  |
| **Department:** | HEALTH, SAFETY, ENVIRONMENTAL AND QUALITY DEPARTMENT | |
| **Title:** | **Annexure 02: ORGANISATIONAL MONTHLY ENVIRONMENTAL REPORT** | |
| **Organisation and Month:** | **Cullinan Diamond Mine Month: January 2021** | |
| **Procedure Nr:** | HSEQ-GP-PO-18 | |
| **Distribution:** | Petra Diamonds Ltd | |
| **Originator:** | Group HSEQ Data Analyst and Reporting Coordinator | |
| **Responsible HOD:** | All Operational General Managers and Mine Managers | |
| **References:** | HSEQ-GP-PO-40 | |
| **Annexures:** | None | |
|  | |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | |  | |
| **Original Date:** | 15 August 2014 | **Revision Date:** | 03 August 2020 |
| **Revision number:** | 04 | **Next Revision Date:** | August 2021 |
|  | |  | |

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| --- | --- | --- | --- |
|  | |  | |
| **Approved:** | Original Signed | **Authorised:** | Original Signed |
| **Name of official:** | JM Reynecke | **Name of official:** | P Nkuna |
| **Designation:** | HSEQ Environmental Lead | **Designation:** | Group HSEQ Manager |
| **Approval date:** | 5 August 2020 | **Authorisation Date:** | 5 August 2020 |
|  | |  | |

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**REPORT SIGN-OFF**

We hereby acknowledge the contents of this report and confirm that it is a true reflection of the current state of the environment at the organisation.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Environmental Specialist

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

HSE Manager

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

General Manager Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# directives and instructions

The organisation is to note any *directives or instructions* received from environmental authorities during the period under review (current month).

|  |  |
| --- | --- |
| **Date of Directive / Instruction:** | None |
| **Authority:** | n/a |
| **In Terms of Legislation:** | n/a |
| **Details of Instruction:** | n/a |
| **List of Actions to Address:** | n/a |
| **Due Date of reply:** | n/a |

*The KPI for Petra Diamonds is to have not more than one (1) directive/instruction per organisation for the current financial year.*

# EXTERNAL STATUTORY AUDITS

This section seeks to identify the *statutory* assessments by *third parties (not authorities)* conducted per organisation and outcomes as communicated to authorities during *the current month*.

|  |  |  |  |
| --- | --- | --- | --- |
| **Audit / Assessment** | **Date conducted** | **No. of Findings** | **Conclusion of Assessor** |
| WUL audit | None | n/a | n/a |
| GNR 704 | None | n/a | n/a |
| EMP PA | None | n/a | n/a |
| Waste License | None | n/a | n/a |
| Closure Liability | None | n/a | n/a |
| Other: | None | n/a | n/a |

# AUTHORITY INSPECTIONS

Please provide details of any inspection/audit or visit from environmental authorities that had been conducted at the organisation *during the current month*.

|  |  |
| --- | --- |
| **Authority** | None |
| **Date of Inspection/Visit/Audit:** | n/a |
| **Scope of Inspection/Visit/Audit:** | n/a |
| **Findings:** | n/a |
| **Actions to address findings and progress on implementation:** | n/a |

Please provide details of any pending inspection/visit/audit from environmental authorities to the organisation.

|  |  |
| --- | --- |
| **Authority:** | n/a |
| **Date of Inspection / Visit:** | n/a |
| **Scope of Visit:** | n/a |

# LEGAL COMPLIANCE

Please note any legal non-compliances relating to environmental management as it came to the attention of the organisation during the *current month* (*to include any non-compliance towards monitoring standards).*

|  |  |  |  |
| --- | --- | --- | --- |
| **Relevant Act / Regulation:** | **National Water Act 36 of 1998: Conditions of Water Use License no. 07/A23B/EGICABJ/5189** | | |
| **Date of Non-Compliance:** | January 2021 (Surface) | | |
| **Full Description of Non-Compliance:** | **Monitoring point** | **Exceeded elements** | **Legal limits** |
| No.2 PCD | Dissolved Oxygen: 3.25 mg/l | >6 mg/l |
| Suspended Solids: 40 mg/l | <25 mg/l |
| Conductivity: 120 mS/m | <70 mS/m |
| Old Swimming Sump | Dissolved Oxygen: 3.55 mg/l | >6 mg/l |
| No.7 Process water | Faecal Coliform: 3200 C.F.U | <100 C.F.U |
| No.7 Dam Seepage Point | pH: 8.64 | 6.0-8.5 |
| Conductivity: 129 mS/m | <70 mS/m |
| Suspended Solids: 37 mg/l | <25 mg/l |
| Turbidity: 44 NTU | <25 NTU |
| Dissolved Oxygen: 3.81 mg/l | >6 mg/l |
|  | NB: Surface water monitoring to be carried over to the month of Feb. Not all monitoring points could be sampled due to bad conditions caused by prolonged rainfall experienced recently. | | |
| **Actions to address the Non-Compliance:** | Continuous management of the amendment application lodged with DWS. | | |
| **Overall Responsibility:** | T Kekane | | |

# EXTERNAL COMPLAINTS

Please note all external complaints received during the *current month*.

|  |  |
| --- | --- |
| **Date of Complaint:** | 16 January 2021 |
| **Description of Complaint:** | Long grass and fallen tree disturbing residence near railway street |
| **Action Taken:** | Service provider appointed for clean-up of the area. |

# SIGNIFICANT ENVIRONMENTAL INCIDENTS

Only Environmental Incidents rated as Medium, High or Major (as per Petra Diamonds Common Vocabulary definition) are reported on in this section. *Note that the figures quoted in this section need to correspond with IsoMetrix.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **IsoMetrix No.** | **Severity** | **Description** | **Investigation Status** |
| None | n/a | n/a | n/a | n/a |
| None | n/a | n/a | n/a | n/a |

*The KPI for Petra Diamonds is zero major environmental incidents within the Group for FY 2021*

# COMPLIANCE TO GROUP ENVIRONMENTAL OBJECTIVES / TARGETS

This section seeks to track progress on meeting the Group Environmental Objectives and KPIs and to create awareness thereof in order to trigger timeous intervention. The table should be populated with numerical values only (in the relevant units as indicated by the KPI) and 0 be used where relevant *for the current month.*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Objective**  **Organization’s performance** | | | | | | | | | | | | | | |
|  | KPI | Jul | Aug | Sept | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | June | YTD |
| **Directives/**  **Instructions** | **≤ 1 pa** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |  |  |  |  |  |  |
| **Significant Incidents** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |  |  |  |  |  |  |
| **Total Water Use (m3/t)** | **Within 1% deviation from FY 2020:**  **0.161 KPI value** | **0.133** | **0.096** | **0.097** | **0.100** | **0.147** | **0.106** | **0.113** |  |  |  |  |  |  |
| **Electricity Efficiency**  **(kWh/t)** | **Within 1% deviation from FY 2020:**  **48.00 KPI value** | **42.99** | **38.64** | **39.53** | **38.58** | **36.93** | **40.07** | **40.13** |  |  |  |  |  |  |
| **Tonnages of Waste Disposed to Landfill (General and Hazardous)** | **1% reduction**  **YOY:**  **498.74 KPI value** | **16.22** | **25.72** | **13.56** | **18.08** | **34.88** | **18.72** | **17.12** |  |  |  |  |  |  |
| **Diesel Use for Trackless Mobile Machines (litres/t)** | **1% reduction**  **YOY:**  **0.67 KPI value** | **0.40** | **0.350** | **0.468** | **0.321** | **0. 414** | **0.272** | **0.427** |  |  |  |  |  |  |
| **Reasons for deviations ≥ 20% in water*,***  ***electricity, TMM diesel consumption and waste*,**  **as compared to the previous month** | |  | | | | | | | | | | | | |

# other

ISO 14001 audits, CAP audits, internal audits/inspections, as well as material site visits e.g. contractor visits to initiate Storm Water Management plans, waste licences, etc. or any other information considered as material *for this month*, to be indicated in this paragraph.

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Audit/Visit** | **Scope of audit/visit** | **Outcome** |
| 25 – 28 Jan 2021 | CAP Audit | HSEms documentation and physical verification at sampled areas | Awaiting final CAP audit report |