



Reference: 19/2/5/1/B4/45/WL0182/22

The Municipal Manager

Stellenbosch Municipality

1 Plein Street

STELLENBOSCH

7600

Tel: (021) 808 8244

Fax: (086) 632 6865

Email: Clayton.Hendricks@stellenbosch.gov.za

For attention: Mr. Clayton Hendricks

**WASTE MANAGEMENT LICENCE FOR THE FURTHER OPERATION OF THE DEVON VALLEY
WASTE DISPOSAL FACILITY (WDF), STELLENBOSCH**

WASTE MANAGEMENT LICENCE

A. DECISION

I, Saliem Haider, in my capacity as the Director: Waste Management of the Department of Environmental Affairs and Development Planning (hereafter "the Department"), in terms of the National Environmental Management: Waste Act, 2008 (Act No. 59 of 2008), as amended (NEM:WA), hereby issue this Waste Management Licence (Licence No. 19/2/5/1/B4/45/WL0182/22) (hereafter "the Licence") to the abovementioned Licence Holder for the further operation of the Devon Valley Waste Disposal Facility, Stellenbosch. This Licence replaces the existing Permits (Permit Nos. 16/2/7/G203/D16/Z1/P331 and E13/2/10/7-B4-37-WL0077/11).

B. DESCRIPTION OF ACTIVITY

The activities for the further operation of the Devon Valley WDF, as per the "Minimum Requirements for Waste Disposal by Landfill", 1998, Second Edition, Department of Water Affairs and Forestry (DWAF) ((now Department of Water and Sanitation (DWS) ("Minimum Requirements")) and the NEM:WA "National Norms and Standards for Disposal of Waste to Landfill", published as Government Notice (GN) No. R 636 (GN R 636) of 23 August 2013, will entail but not be limited to the following:

- (a) Disposal of general waste.
- (b) WDF Site Auditing.
- (c) Gate or weighbridge recording procedures.
- (d) Volume Surveys.
- (e) Collection and processing of other data.
- (f) Leachate and water quality monitoring.
- (g) Gas monitoring.
- (h) Air quality monitoring.
- (i) Monitoring of rehabilitated areas.
- (j) The determination of the total airspace at the waste disposal facility within 6 months after this Licence is issued.
- (k) Attend to the health of workers.
- (l) Remedial design to address identified problem areas.
- (m) Permanent stormwater diversion measures, run-off control and anti-erosion measures.
- (n) Any infrastructure relating to the End-use plan.

The construction of cell 4 will be according to the design requirements of a Class B WDF in terms of GN No. R 636 of 23 August 2013.

In this Licence, "Director" means the Director: Waste Management of the Western Cape Department of Environmental Affairs and Development Planning, who may be contacted at the address below:

Director: Waste Management

Department of Environmental Affairs and Development Planning

Private Bag X 9086

CAPE TOWN

8000

In this Licence, "Director: RPW" means the Director: Resource Protection and Waste of the National Department of Water and Sanitation: Western Cape Provincial Operations, who may be contacted at the address below:

Director: Resource Protection and Waste

Department of Water and Sanitation

Private Bag X16

SANLAMHOF

7532

The granting of this Waste Management Licence is subject to compliance with the conditions set out in Section C of this Licence.

C. LICENCE CONDITIONS

LICENCE NUMBER: 19/2/5/1/B4/45/WL0182/22
WASTE APPLICATION: FURTHER OPERATION OF THE DEVON VALLEY WDF
LOCATION: PORTION 2 OF THE FARM MORGENSTER 203, REMAINDER OF THE FARM 183, REMAINDER OF THE FARM VELDWAGTERS RIVER OUTSPAN 280
LICENCE HOLDER: STELLENBOSCH MUNICIPALITY
CONTACT PERSON: MR. CLAYTON HENDRICKS
ADDRESS: 1 PLEIN STREET, STELLENBOSCH, 7600

1. LOCATION

1.1 This Licence authorises the further development and operation of a WDF on Portion 2 of the farm Morgenster 203, Remainder of the farm 183, Remainder of the farm Veldwagtersriver Outspan 280, Stellenbosch (hereinafter referred to as "the Site") according to the Basic Assessment Report (hereinafter referred to as "the Report") by GIBB Environmental Consultants, dated January 2023.

1.2 This Licence regulates the operating conditions for Cells 3 & 4 of the Devon Valley WDF, and not Cells 1 & 2.

1.3 The location (entrance) of the property on which the Facility is established:

Latitude (S)	Longitude (E)
33°56'50.54"	18°49'15.77"

1.4. The boundaries of the Facility must be according to the following co-ordinates:

Number of corners	Latitude (S)	Longitude (E)
A	33°56'16.72"	18°49'2.99"
B	33°56'15.40"	18°49'13.58"
C	33°56'15.82"	18°49'14.57"
D	33°56'19.27"	18°49'15.89"
E	33°56'21.11"	18°49'15.70"
F	33°56'30.53"	18°49'19.90"
G	33°56'21.70"	18°49'20.33"
H	33°56'34.63"	18°49'20.22"

I	33°56'35.87"	18°49'20.15"
J	33°56'37.59"	18°49'19.83"
K	33°56'39.28"	18°49'17.86"
L	33°56'42.54"	18°49'18.13"
M	33°56'45.14"	18°49'19.83"
N	33°56'49.47"	18°49'15.92"
O	33°56'50.01"	18°49'16.10"
P	33°56'50.38"	18°49'16.64"
Q	33°56'51.68"	18°49'10.88"
R	33°56'46.52"	18°49'11.99"
S	33°56'42.56"	18°49'12.07"
T	33°56'41.14"	18°49'12.29"
U	33°56'40.37"	18°49'8.38"
V	33°56'41.08"	18°49'5.54"
W	33°56'27.33"	18°49'7.71"

1.5. The footprint of the Facility and its associated infrastructure is 276 444 m².

1.6. The Surveyor General 21 Digit Codes of the Facility are: C06700000000020300002, C06700000000028000000 and C06700000000018300000.

2. **PERMISSIBLE WASTE**

2.1 Any portion of the Facility as demarcated in condition 1.3 may be used for the disposal of general waste. Only waste that is classified as general waste according to the NEM:WA and current or future Norms and Standards developed by the Department is permitted.

2.2 No hazardous waste is permitted to be disposed of at the Facility. If the Facility has the capacity to store more than 100m³ of general waste or 80m³ of hazardous waste at any one time for a period exceeding 90 days, registration in terms of the relevant NEM:WA National Norms and Standards for the Storage of Waste, published as GN No. 926 of 29 November 2013, must be done.

2.3 The Licence Holder must prevent the acceptance of any waste not authorised at the Facility.

2.4 All waste loads must be checked at the gate to prevent the disposal of waste not authorised by this Licence.

2.5 Organic waste is allowed to be disposed of at the Facility but must be in accordance with the Organic Waste Diversion Plan, targets and procedures referred to in conditions 18.8 and 18.9 of this Licence.

3. **APPOINTMENT OF A WASTE MANAGEMENT CONTROL OFFICER/ENVIRONMENTAL CONTROL OFFICER**

3.1 A Waste Management Control Officer (WMCO)/Environmental Control Officer (ECO), who will monitor and ensure compliance and correct implementation of all mitigation measures and provisions as stipulated in the Licence and Environmental Management Programme (EMPr), as compiled by GIBB Environmental Consultants and dated January 2023, must be appointed prior to any construction activities being undertaken at the Facility.

The WMCO/ECO must:

- 3.1.1 report any non-compliance with any Licence conditions or requirements or provisions of NEM:WA to the Director through the means reasonably available;
- 3.1.2 monitor the operational activities and ensure that the operational plans are in accordance with approved engineering designs;
- 3.1.3 identify and submit potential measures to the Licence Holder and the Director in respect of waste minimisation, including the reduction, recovery, re-use and recycling of waste; and
- 3.1.4 submit a declaration to the Director upon completion of the construction works that all possible mitigation measures have been put in place and highlight likely deficiencies before commencement of the proposed activities.

4. **CONSTRUCTION**

- 4.1 The Site or any portion thereof may only be used for the disposal of permissible waste if the Site or any such portion has been constructed or developed according to condition 4 of this Licence.
- 4.2 The construction and further development within the Site shall be in accordance with the detailed Design Report dated 6 June 2022 (Zutari) and the final engineering plans submitted.
- 4.3 The construction of further developments of Cells 3 & 4 can only be undertaken by the Licence Holder in line with the specified engineering plans that have been provided to and approved by the DWS.
- 4.4 The License Holder must notify the Responsible Authority in writing within 24 (twenty-four) hours if any condition of this design and its acceptance cannot be, or is not, adhered to during construction and operation. The notification must be supplemented with reasons for non-compliance, and proposed rectification measures.
- 4.5 The Record of Decision (RoD) issued by the DWS applies to the proposed infrastructure in the design minimum of 98% Standard Proctor maximum dry density (MDD) at OMC to OMC +2% unless otherwise agreed in writing prior to commencement of construction. Furthermore, the infiel strain determination test shall be monitored to confirm the base preparation at the point of test is representative of the minimum compaction density and moisture content achieved in the Cell 4 construction.

4.6 Construction and further development within the Site shall be carried out under the supervision of a suitably qualified person proposed by the Licence Holder and approved by the Director and Director: RPW.

4.7 One month's written notice must be given to the Responsible Authority before commencement of construction activities. Such notice shall make clear reference to the site location details and the reference number of the project as indicated above and one month's written notice must be given to the Responsible Authority before commencement of the operational phase activities.

4.8 After construction of the Site or further development within the Site, the Licence Holder shall notify the Director thereof before disposal may commence on the Site. The completed construction works of the Site shall be inspected by an official of the Department and the person referred in condition 4.6. If the Director is satisfied with the construction of the Site or any further development within the Site and has given written permission, the Licence Holder may use the Site or any further development within the Site for the disposal of waste.

4.9 The License Holder must place and maintain cordons, barriers and warning systems around facilities to define the nature and extent of each disposal or waste management area and avoid intersection of different waste types as per GN No. R 636.

4.10 The Licence Holder shall take all reasonable steps, such as suitable zoning and/or written agreements with adjacent landowners, to prevent the development of further residential and/or light industrial areas closer to the Site than any existing residential areas and/or light industrial areas during the operative life of the Site. Heavy industries or industries which may create nuisance conditions may be permitted within the buffer zone in terms of the appropriate legislation.

4.11 Clearing activities must only be undertaken during agreed working times and permitted weather conditions. If heavy rains are expected, clearing activities should be put on hold.

4.12 Install protective works (e.g. gabions, reno-mattresses) to stabilise and protect unstable banks immediately upstream and downstream of the development area prior to commencing construction.

4.13 Topsoil and vegetation from areas to be excavated should be stripped and stored at the designated soil stockpile area outside of the wetland/aquatic zone for use later in rehabilitation. Topsoil and subsoil to be stored separately.

4.14 No clearing of indigenous vegetation outside of the defined working servitudes is permitted for any reason.

4.15 No persons may remove, damage, deface, paint or disturb any flora (plants) outside of the demarcated construction areas, unless specifically authorised by the WMCO/ECO in consultation with the resident engineer.

4.16 During the construction phase a watercourse buffer of 25m must be maintained.

- 4.17 During the construction phase all measures should be taken in order to prevent contamination of watercourse areas by vehicles.
- 4.18 An appropriate Contingency-Spill Response Plan is to be compiled and kept on site, for implementation where necessary.
- 4.19 Sedimentation and erosion control measures must be implemented to prevent slope destabilisation and increased sediment loads entering freshwater systems.
- 4.20 The watercourses which are affected at the point of construction should be stabilised to make sure that the current functionality of the watercourse is not reduced, but restored.
- 4.21 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 (hereinafter referred to as the "estimated maximum precipitation"). Such works shall, under the said rainfall event, maintain a freeboard of half a metre.
- 4.22 Works shall be constructed and maintained on a continuous basis by the Licence Holder to divert and drain from the working face of the Site, all runoff water arising on the Site, which could be expected as a result of the estimated maximum precipitation and to prevent such runoff water from coming into contact with leachate from the Site. Such works shall, under the said rainfall event, maintain a freeboard of half a meter.
- 4.23 Runoff water referred to in condition 4.22 shall comply with the quality requirements as prescribed by the Director and the Director: RPW, which may be determined from time to time and shall be drained from the Site in a legal manner.
- 4.24 Runoff water referred to in condition 4.22 which does not comply with the quality requirements applicable in terms of condition 4.23 and all leachate shall, by means of works which shall be constructed and maintained on a continuous basis by the Licence Holder and be lined as approved by the Director and the Director: RPW, to prevent groundwater pollution:
 - 4.24.1 be discharged into any convenient sewer if accepted by the authority in control of that sewer; and/or;
 - 4.24.2 be treated to comply with the aforementioned standard and discharged in a legal manner; and/or;
 - 4.24.3 with the written approval of the Director and Director: RPW, be evaporated in dams and/or be evaporated by spraying over those portions of the Site which comply with the requirements set in terms of condition 4.
- 4.25 Works constructed in compliance with condition 4.24 shall be of such a capacity as to accommodate all runoff and leachate which could be expected as a result of the estimated maximum precipitation. Such works shall, under the said rainfall event, maintain a freeboard of half a metre.

4.26 The Licence Holder shall confirm the containment performance of the existing leachate collection sump to which Cell 4 leachate is to drain, as well as the containment performance of the pipeline crossing the river to the wastewater treatment works (WWTW), prior to Cell 4A being put into use.

4.27 The proposed use of Cell 4C as a contaminated water dam is prohibited due to the predictable loss of drainage capacity of the leachate collection system (LCS) aggregate layer as well as detrimental impacts on the liner system due to induced wetting and drying cycles, elevated pressure head, and total contaminated available within the water column above the liner. The proposed contaminated stormwater dam shall be in place prior to the use of Cell 4 irrespective of whether the power lines are timeously relocated or not.

4.28 The Licence Holder shall confirm the stability assessment of the Facility using the actual materials employed in construction as advocated in the design report, and this confirmation shall be included in the engineer's certificate of completion supporting documentation.

4.29 The Site shall be constructed in accordance with recognised civil engineering practice to ensure that it remains stable.

4.30 For the long-term stability of the site, the batter angles of the fill must be in the order of 1 vertical to 3 horizontal.

4.31 The maximum height of the WDF shall not exceed 130 meters above mean sea level (MAMSL) equivalent to 23 metres above ground level.

4.32 The slopes of the sides of the WDF shall be constructed in such a manner that little or no erosion occurs.

4.33 The Licence Holder shall make provision for adequate sanitation facilities at the WDF.

4.34 This Licence must be made binding to the main contractor, as well as individual contractors and should be included in tender documentation for construction contracts.

4.35 The Licence Holder is to ensure that there is no collusion between the engineer, contractor, subcontractors, material suppliers, and construction quality assurance (CQA) agent in the further development and implementation of construction quality assurance and is accountable, therefore.

4.36 The Licence Holder shall implement the project in accordance with SANS 10409 (2020) and appoint a "Third Party Officer" (as per SANS 10409 clause 3.24) who shall monitor and record the engineer's implementation of the Construction Quality Control and Assurance Plan included in the Zutari design report Appendix F.

4.37 The Licence Holder shall provide the Responsible Authority with the engineer's certificate of completion (COC) and supporting documentation to confirm that construction was in accordance with the accepted design and construction quality assurance (CQA) plan for written acceptance prior to use. The supporting documentation shall include a summary of test results which includes the number of tests; minimum, maximum, and mean value; standard deviation; and number of failures for each test method required by the CQA plan in compliance with SANS standards (being the latest version at time of

commencement of construction) and certified as correct by the Third-Party Quality Officer. For pollution control barrier systems, the COC report shall confirm the predicated services life and total solute transport design phase assessment based on construction quality control/assurance results including materials compatibility confirmation and total tensile strain development, as well as the results of the electric leak location survey.

5. **ACCESS CONTROL**

5.1 Weatherproof, durable and legible notices in three official languages applicable in the area, shall be displayed at each entrance to the WDF. These notices shall prohibit unauthorised entry and state the hours of operation, the name, address and telephone number of the Licence Holder and the person responsible for the operation of the Facility.

5.2 The Site shall be fenced to a minimum height of 1.8 meters with gates of the same height at all entrances, to reasonably prevent unauthorised entry and curtail the spreading of windblown paper and plastic materials.

5.3 The Licence Holder shall take all reasonable steps to maintain service roads in a condition which ensures unimpeded access to the Site for vehicles transporting waste and to keep the roads free of waste.

5.4 The Licence Holder shall ensure that all entrance gates are manned during the hours of operation and locked outside the hours of operation.

5.5 The Licence Holder shall ensure effective access control.

5.6 The Licence Holder shall take all reasonable steps to prevent the disposal of waste on the Site for which the Site has not been approved.

5.7 The Licence Holder shall submit a report detailing the traffic flow pattern from both the preferred routes via the Vredenburg and Adam Tas Roads, as indicated in the Route Determination Report for the Devon Valley Landfill Site Waste Management Licence Application, dated 11/6/2020, within 3 (three) months from the date of issuing of this Licence.

6. **OPERATION**

6.1 Waste disposal and operation shall be done according to the relevant minimum requirements, the Operational Report dated February 1998, the EMPr dated January 2023 compiled by GIBB, the conditions of this Licence and any other written instruction by the Department.

6.2 An application for the amendment to the EMPr could be submitted to the Director if any further amendments are to be made to the EMPr and such amendments may only be implemented if the amended EMPr has been authorised by the Director.

6.3 The EMPr must be included in all contract documentation for all phases of implementation.

6.4 The Licence Holder must notify the Director immediately of any events or incidents that may cause significant environmental damage or breach the requirements of the EMPr.

6.5 Any persons having duties that are or may be affected by the matters set out in this Licence must have convenient access to a copy of it, kept at or near the place where those duties will be carried out.

6.6 A copy of this Licence and the EMPr must be kept at the Facility where the waste listed activities will be undertaken. The Licence and EMPr must be produced to any authorised official of the Department who requests to see it for the purposes of assessing and/or monitoring compliance with the conditions contained herein and must be made available for inspection by any employee or agent of the Licence Holder who works or undertakes work at the Facility.

6.7 The Licence Holder shall remain responsible for the Facility, and/or any of the impacts arising from the operations on the environment.

6.8 The Facility must be managed by fit and proper persons who are competent in respect of the responsibilities to be undertaken by them.

6.9 The Licence Holder shall take all reasonable steps to ensure that the Site is operated in a manner which shall prevent the creation of nuisance conditions or health hazards.

6.10 Waste disposed of at the WDF shall be compacted and covered daily with a minimum of 150 millimeters of soil or other material approved by the Director.

6.11 Windblown litter must be contained on site with the perimeter fencing, or by any other practical means. Any waste/windblown litter contained on any fences and/or located outside the boundaries must be removed and disposed at the WDF.

6.12 The Licence Holder shall apply sufficient dust control measures to prevent windblown dust from causing nuisance conditions or health hazards.

6.13 Waste disposed of on the Site may be reclaimed. The reclamation activity shall not interfere with the daily operational activities of the Site.

6.14 Waste may not be burned at the Facility.

6.15 All staff and visitors' occupational health and safety risks must be identified and managed. Protective clothing must be worn at the Facility and the provisions of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) must be complied with.

6.16 The Licence Holder shall keep a record of the volume and nature of the waste materials which are reclaimed and report this on an annual basis to the Director.

6.17 The Licence Holder shall submit a comprehensive plan within one month from the date of issuing of this Licence, outlining the time frames for site upgrading and monitoring. This plan must indicate how:

6.17.1 visual impacts (tree planting and berm construction);

6.17.2 daily cover and stockpiling;

6.17.3 access and traffic control; and

6.17.4 leachate and a surface water monitoring network will be addressed within a maximum time period of six months (implementation period).

6.18 An Alien Plant Control Plan should be compiled and implemented. This includes details of removal as well as monitoring to ensure the alien plants are kept in control throughout the life of the activity.

6.19 Invasive Alien Plant (IAP) and weed control must take place within remaining watercourse habitats in accordance with an IAP control and management programme aligned with the National Environmental Management: Biodiversity Act, 2004 (Act No. 10 of 2004), Invasive Species Regulations.

6.20 All mitigation measures, as detailed in the Visual Impact Assessment Report, compiled by GIBB Environmental Consultants, dated September 2019, must be implemented. These include:

6.20.1 During construction:

6.20.1.1 Ensure vegetation along the boundary of the construction site is maintained, to ensure views towards the landfill areas are impeded.

6.20.1.2 If vegetation is to be cleared on site, erosion control measures must be kept in place to ensure that excessive scarring of the landscape is reduced.

6.20.1.3 If construction is to occur during the night, all lighting must be kept facing inward. This is to ensure that excessive light does not escape from the construction area.

6.20.1.4 An investigation into the establishment of vegetation and/or the construction of man-made barriers between the sensitive viewers and the proposed development must be undertaken during the construction and operational phases.

6.20.1.5 Litter control measures must be kept in place to ensure that the site is maintained in a neat and tidy condition.

6.20.1.6 External signage should be kept to a minimum (except for safety notifications), and where possible should be attached to existing buildings, to avoid free-standing signage.

6.20.2 Operation

6.20.2.1 Low foot level lighting must be used, if necessary, and where it is deemed safe.

6.20.2.2 Physical barriers should be used as shielding or cover to prevent excess light leaving the site.

6.20.2.3 Where possible, lighting should be faced / shielded inward away from the viewers.

6.20.2.4 Areas of high reflective surfaces should be covered to reduce the reflection from the development. This is important on nights of cloud or mist.

6.20.2.5 Litter control measures should be kept in place to ensure that the site is maintained in a neat and tidy condition.

6.20.2.6 Concurrent re-vegetation of the sides of the landfill should be undertaken where possible.

6.20.2.7 External signage should be kept to a minimum (except for safety notifications), and where possible should be attached to existing buildings, to avoid free-standing signage.

7. **WATER QUALITY MANAGEMENT**

7.1 Stormwater Management

7.1.1 The following requirements of the Stormwater Management Plan submitted, dated February 2021 and compiled by Jan Palm Consulting Engineers (Pty) Ltd, must be implemented.

7.1.2 Uncontaminated runoff water must under no circumstances be used to dilute leachate emanating from the Facility.

7.1.3 Energy dissipaters, litter traps and sediment traps must be installed in the stormwater channels to reduce velocity of the stormwater.

7.2 Leachate management

7.2.1 Leachate from Facility, including contaminated runoff water, must be treated to comply with the quality requirements as prescribed by the Director and the Director: RPW, which may be determined from time to time and shall be drained from the Facility in a legal manner.

7.2.2 All areas where waste is temporarily stored and handled, excluding the disposal area, must be designed and managed such that there is no escape of contaminants into the environment. All runoff, if any, must be prevented from entering local watercourses.

7.2.3 The discharge of leachate or polluted water from any pollution control dam or collector/conveyance sumps to the environment (or similar non-compliant containment) is to be reported as an incident within 24 hours and treated as such, with appropriate remediation.

7.2.4 The following requirements of the Geohydrological Impact Assessment Report, dated 2020, as compiled by Aqua Earth Consulting, should be implemented:

7.2.4.1 The bottom of the cell should be lined to prevent seepage into the shallow groundwater.

7.2.4.2 Bi-annual water quality sampling and analyses must be conducted in order to check if the lining is effective.

7.2.4.3 Water levels must be measured during the bi-annual sampling.

7.2.4.4 A groundwater quality database must be compiled to correlate long-term water quality trends.

7.2.4.5 A bi-annual or annual Groundwater Report must be drafted with all the findings and submitted to the Director and/or Director: RPW.

7.2.5 The Licence Holder remains responsible for monitoring and recording the leachate collection system and subsurface drainage of Cells 1 and 2 and of Cell 3. Such records shall be made available to the authorities annually or upon request.

8. **METHODS OF ANALYSIS**

8.1 Monitoring methods and parameters:

8.1.1 The Licence Holder shall carry out all tests in accordance with methods prescribed by and obtainable from the South African Bureau of Standards (SABS), referred to in the Standards Act, 2008 (Act No. 8 of 2008), to analyse the samples taken under the monitoring programmes specified in condition 9.

8.1.2 The Licence Holder shall only use another method of analysis if written proof that the method is at least equivalent to the SABS method, is submitted to the Responsible Authority.

8.1.3 The Licence Holder must put in place a monitoring and measurement plan that must inter alia include:

8.1.3.1 mass (in tonnes or kilograms) received, recycled, reclaimed, treated and transferred;

8.1.3.2 waste types and sources;

8.1.3.3 air quality monitoring; and

8.1.3.4 an annual topographical survey submitted to the Director in the form of an Airspace Determination Report, which must estimate the remaining volume of airspace on the Facility and the remaining lifetime for the disposal of waste at the Facility.

9. **MONITORING**

9.1 **Air Quality Monitoring**

9.1.1 In addition to the gas monitoring requirements identified in condition 9.2, the following mitigation measures, as identified in the Air Quality Monitoring Plan (AQMP), attached as Appendix 1 to the Air Quality Impact Assessment Report, compiled by EScience Associates, dated November 2021, should be implemented:

9.1.1.1 Speed limit signs, stipulating a maximum speed of 40 km/h, must be erected to this effect at the beginning of the unpaved road and is necessary at locations along the route as deemed necessary by the WMCO/ECO.

9.1.1.2 Vehicle speeds must be limited to 40 km/h on any exposed surfaces where palliatives or paving have not been applied.

9.1.1.3 Application of palliatives must be undertaken as per the instructions of the manufacturer/supplier. The palliative must have a design/stated reduction efficiency of at least 95%.

9.1.1.4 All the operators' vehicles must be maintained and serviced in accordance with manufacturer's recommendations. Should relevant legislation be brought into effect for vehicle exhaust emissions management then this must be complied with accordingly.

9.1.1.5 Temporary exposed surfaces from the construction phase must be rehabilitated as soon as is practical, where applicable and reasonable.

9.1.1.6 Dust fallout monitoring stations must be placed as recommended and operated in accordance with National Dust Control Regulations, published as GN. R 827 of 1 November 2013.

- 9.1.1.7 Dust outfall monitoring reports must be issued for review by management in order to ensure that any significant outfall is remedied.
- 9.1.1.8 Passive monitoring must be undertaken at the recommended locations.
- 9.1.1.9 In the absence of a specified regulatory passive monitoring standard for ambient benzene, it is recommended that the monitoring be undertaken in accordance with the US EPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, ISO 16200-2:2000, or an alternative method approved by the municipal Air Quality Officer.
- 9.1.1.10 Benzene monitoring reports must be issued for review by management in-order to ensure that ambient levels are tracked with the view of determining whether there may be a trend toward exceedance of the national ambient air quality standards.
- 9.1.1.11 Monitoring reports must further be reported to the municipal Air Quality Officer and the Director,
- 9.1.1.12 Should the measured data confirm the prediction of eventual exceedance of the national ambient air quality standards then it is recommended that the Licence Holder consider capture and thermal destruction of the landfill gas. Alternatively, the Stellenbosch Municipality would need to engage with the municipal Air Quality Officer and the Director to determine whether deposition may continue on the basis of a detailed health risk assessment.
- 9.1.1.13 Site inspections of exposed surfaces and roads must be undertaken to ensure that the objectives and requirements of the AQMP are being met.

9.2 **Gas monitoring**

- 9.2.1 The Licence Holder shall obtain written approval for the landfill gas management system and operation from the Air Quality Authority prior to commencement of waste disposal on Cell 4, taking community health and public safety into consideration.
- 9.2.2 The Licence Holder shall implement adequate measures to the satisfaction of the Director, to ventilate or to prevent lateral migration of methane gas generated in the waste disposal area within the Site so that the build-up of dangerous concentrations is prevented.
- 9.2.3 The concentration, by volume in air at standard temperature and pressure, of flammable gas and carbon dioxide shall not exceed 1% and 0.5% respectively in gas monitoring boreholes or other monitoring devices surrounding the waste body within the Site.
- 9.2.4 The measurements for condition 9.2.3 shall be taken on a three-monthly basis from gas monitoring boreholes or any other monitoring devices approved by the Director which shall be at least one meter deeper than the deepest point of the waste body.
- 9.2.5 Should measurements at these boreholes or devices transgress the limits set in condition 9.2.3, the Licence Holder shall immediately notify the Director and initiate a more frequent gas monitoring programme as prescribed by the Director.

9.2.6 The concentration of flammable gas in the atmosphere inside buildings on the Site shall not exceed 1% by volume in air, at standard temperature and pressure. If the atmospheric levels are found to be between 0.1 and 1%, regular monitoring shall be instituted. If levels above 1% are detected, the buildings shall be evacuated, or trained personnel shall be consulted.

9.3 **Post-closure gas monitoring**

9.3.1 Gas monitoring by the Licence Holder, as described in condition 9.2, shall continue after closure for a period of two years, or such longer period as may be determined by the Director.

9.3.2 The Licence Holder shall also initiate a six-monthly gas monitoring programme where measurements are taken from gas monitoring boreholes or any other monitoring devices approved by the Director and Director: RPW, situated within the waste body, until the limits set in condition 9.2.3 are met over a two-year period.

9.4 **Water monitoring**

9.4.1 The existing monitoring borehole network for the Site shall be maintained by the Licence Holder to the satisfaction of the Director and Director: RPW so that unobstructed sampling, as required in terms of this Licence, can be undertaken.

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

9.4.3 Surface water monitoring shall be performed in all stormwater drains on and adjacent to the Site at locations selected in conjunction with the Director and Director: RPW and at a frequency as determined by the Director and Director: RPW.

9.4.4 Treated leachate discharged into a water course shall be monitored and the standards, parameters and sample frequency of monitoring shall be determined and from time to time be adjusted by the Director and Director: RPW.

9.5 **Background monitoring**

9.5.1 Samples from the borehole where the groundwater in the borehole is at an expected higher hydraulic pressure level than the hydraulic pressure level of the groundwater under the Site, shall be considered as background monitoring. Background groundwater monitoring shall be conducted during each monitoring occasion in terms of conditions 9.5, 9.6 or 9.7 for the water quality variables agreed upon by the Director and Director: RPW.

9.6 **Detection monitoring**

9.6.1 Monitoring shall be conducted on a biannual (twice per year) basis during late summer and late winter to capture seasonal variation, for the water quality variables as agreed by the Department and the Director: RPW.

9.7 **Investigative monitoring**

9.7.1 If, in the opinion of the Director and/or Director: RPW, a water quality variable listed under the detection monitoring programme, as referred to in condition 9.6, shows an increasing trend, the Licence Holder shall initiate a monthly monitoring programme for the water quality until such time that the variable is within acceptable limits.

9.8 **Post-closure monitoring**

9.8.1 Groundwater monitoring by the Licence Holder, in accordance with condition 9.6 or 9.7, shall commence immediately upon closure of the Site and be maintained for a period of 30 years, or such lesser period as may be determined by the Director and Director: RPW.

9.9 **Further investigations**

9.9.1 If, in the opinion of the Director and/or Director: RPW, groundwater, surface water and/or air pollution have occurred or may possibly occur, the Licence Holder shall conduct the necessary investigations and implement additional monitoring and rehabilitation measures which shall be to the satisfaction of the Director and Director: RPW.

10. **AUDITING**

10.1 **Internal audits**

10.1.1 Internal audits must be conducted quarterly 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 and the Department, according to conditions 10.1.2.

10.1.2 All internal audit reports must be submitted to the Director within 30 days of completion of the audit report.

10.1.3 The internal audit reports must be included in an appendix in the external audit report referred to in condition 10.2.

10.1.4 The internal audit report must:

10.1.4.1 prescribe to the tabular format and utilise the Department's Audit Protocol;

- 10.1.4.2 specifically state whether conditions of this Licence are adhered to (0=Non-Compliance; 1=Partial-Compliance; 2=Compliance) and provide relevant comments for each condition;
- 10.1.4.3 include an interpretation of all available data and test results regarding the operation of the Facility and all its impacts on the environment;
- 10.1.4.4 specify target dates for the implementation of the recommendations to achieve compliance;
- 10.1.4.5 specify whether corrective action which was taken for the previous audit's non conformities were adequate;
- 10.1.4.6 *inter alia*, address the issues raised in the audit report and provide an indication of the budget/financial allocation, as well as indicate the timeframes and responsible person(s) to address the issues; and
- 10.1.4.7 include appendices containing all records kept as required in terms of condition 12.

10.2 **External audits**

- 10.2.1 The Licence Holder must appoint an independent external auditor to audit the Site annually and this auditor must compile an audit report documenting the findings of the audit, which must be submitted by the Licence Holder according to condition 10.2.5.
- 10.2.2 The audit report must specifically state whether conditions of this Licence are adhered to and must include an interpretation of all available data and test results regarding the operation of the Site and all its impacts on the environment.
- 10.2.3 The audit report must contain recommendations regarding non-compliances or potential non-compliances and must specify target dates for the implementation of the recommendations by the Licence Holder.
- 10.2.4 The external audit report must be submitted to the Residents Monitoring Committee (hereinafter referred to as the "Monitoring Committee"), provided in Condition 11 below, within 3 (three) months from the date on which the external auditor finalised the report.
- 10.2.5 Each external audit must be submitted to the Director within 30 (thirty) days from the date on which the external auditor finalised the report.
- 10.2.6 Both the internal and external audit reports must be in accordance with the format as prescribed by the Department.

10.3 **Departmental audits and inspections**

- 10.3.1 The Department and the Director: RPW reserves the right to audit and/or inspect the Site at any time and at such frequency as the Director and Director: RPW may decide, or to have the Facility audited or inspected.
- 10.3.2 The Licence Holder must make any records or documentation available to the Director and Director: RPW upon request, as well as any other information the Director and Director: RPW may require.

10.3.3 The findings of these audits or inspections shall be made available to the Licence Holder within 60 days of the end of the audit or inspection and shall not be treated as confidential.

11. **MONITORING COMMITTEE**

11.1 The Licence Holder must take all reasonable steps to maintain and ensure the continued functioning of the Residents Monitoring Committee (in this Licence referred to as "The Monitoring Committee") for the normal operative lifetime of the Site and for a period of at least two years after the closure of the Site, or such longer period as may be determined by the Director.

11.2 The Monitoring Committee shall be representative of relevant interested and affected persons and may consist of at least the following persons:

11.2.1 Licence Holder and/or his appointed consultant(s) or advisor(s);

11.2.2 representative(s) of the Health, Environment and/or Waste Departments of the relevant local authority;

11.2.3 representative(s) of the Department;

11.2.4 at least 3 (three) persons/ parties, or their representatives elected by the local residents.

11.3 The Monitoring Committee shall meet at least once every four months and not later than 30 days after the external audit report specified in condition 10.2 has been submitted according to condition 10.2.4.

11.4 The Licence Holder must keep minutes of all meetings of the Monitoring Committee and distribute these minutes to all members of the Monitoring Committee within 30 days after the meeting.

12. **RECORDING**

12.1 Design and construction records, including topographical surveys and methodical materials test results (on all materials used) shall be maintained and archived and accessible for the life of the Facility (including decommissioning).

12.2 The Licence Holder must keep records of all monitoring results, nuisances and complaints at the Facility.

12.3 Accurate records of waste volumes or masses received and recovered must be kept at the Facility and reported to the Department as per condition 12.6.

12.4 All records required or resulting from activities required by this Licence must:

12.4.1 be legible;

12.4.2 be made available and should form part of any audit report;

12.4.3 if amended, be amended in such a way that the original and any subsequent amendments remain legible and are easily retrievable;

12.4.4 be retained in accordance with documented procedures which are approved by the Department; and

12.4.5 be made available upon the request of the Director and/or Director: RPW.

12.5 The Licence Holder shall record all borehole data and chemical analysis as required in condition 9.

12.6 The Licence Holder must register and report all waste volumes or masses received, recovered, disposed of or stored to the Department's Integrated Pollutant and Waste Information System (IPWIS), which can be accessed on the URL: <http://ipwis.pgwc.gov.za/ipwis3/public>, as required by the Department.

13. **REPORTING**

13.1 **Reporting of incidents**

13.1.1 The Licence Holder must, within 24 hours, notify the Director of the occurrence or detection of any incident on the Site, which has the potential to cause, or has caused water pollution, pollution of the environment, health risks and/or injury or nuisance conditions.

13.1.2 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 13.1.1, submit an action plan, which must include a detailed time schedule, to the satisfaction of the Director of measures taken to:

- (a) correct the impact resulting from the incident;
- (b) prevent the incident from causing any further impacts; and
- (c) prevent a recurrence of a similar incident.

13.1.3 If measures have not been implemented within 21 days to address impacts caused by the incident referred to in condition 13.1.1, or measures which have been implemented are inadequate, the Director may implement the necessary measures at the cost and risk of the Licence Holder.

13.1.4 The Licence Holder must keep an incident report and complaints register, which must be made available to both external and Departmental auditors for the purpose of their audits.

13.1.5 The Department must be notified within 7 (seven) days of any changes to the management of the Facility including the name of the incoming person together with evidence that such person has the required technical competence to manage/operate the facility.

13.1.6 The Department must be notified within 14 (fourteen) days of the following changes:

13.1.6.1 Licence Holder's trading name, registered name or registered office address;

13.1.6.2 particulars of the Licence Holder's ultimate holding company (including details of an ultimate holding where a Licence Holder has become a subsidiary); and

13.1.6.3 steps taken with a view to the Licence Holder going into bankruptcy, entering composition or arrangement with creditors.

13.1.7 The Department must be notified without delay in the case of the following:

13.1.7.1 any malfunction, breakdown or failure of equipment or techniques, accident or fugitive emission which has caused, is causing or may cause significant pollution;

13.1.7.2 the breach of conditions of this Licence; and

13.1.7.3 any significant adverse environmental and health effects.

- 13.1.8 Prior written notification must be given to the Director of the following events and within the specified timeframes:
 - 13.1.8.1 as soon as practicable prior to the permanent cessation of any operational activities;
 - 13.1.8.2 full or partial cessation of the operational activities for a period likely to exceed 3 (three) months; and
 - 13.1.8.3 full or partial resumption of the operation of all or part of the activities after a cessation notified under 13.1.8.2 above.
- 13.1.8.4 The information required in terms of conditions 9 must be reported to the Director in the format specified in condition 12.4, where applicable, within a period of 30 (thirty) days following the analysis of the samples. The information must also be included in a trend report, which 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.
- 13.1.9 All significant differences between predicated and actual performance of waste management facilities shall be reported to the authorities annually in writing.

13.2 **Other reports**

- 13.2.1 The information required in terms of condition 8.1.3 shall be submitted to the Director within a period of one year from the date of issuing of this Licence and annually thereafter.
- 13.2.2 The information required in terms of condition 9 must be reported to the Director in the format specified in condition 8, where applicable, within a period of 30 days following the analysis of the samples. The information must also be included into a trend report, which 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.

14. **REHABILITATION AND CLOSURE OF THE SITE**

- 14.1 The Licence Holder shall, at least 60 days prior to the intended closure of the Site, notify the Director and Director: RPW by registered mail of such closure and submit final rehabilitation plans for their approval.
- 14.2 Immediately following the cessation of operations with the intention to close the Site, the surface of the Site shall be covered in such a way that:
 - 14.2.1 the formation of pools due to rain is prevented;
 - 14.2.2 free surface runoff of rainwater is ensured; and
 - 14.2.3 no objects or materials which may hamper the rehabilitation of the Site are present.
- 14.3 The Licence Holder shall rehabilitate the Site in accordance with a rehabilitation plan, which shall be submitted by the Licence Holder and which shall be to the satisfaction of the Director.

15. **LEASING AND ALIENATION OF THE SITE**

15.1 Should the Licence Holder want to alienate or lease the Facility, he/she must notify the Director in writing of such an intention at least 120 (one hundred and twenty) days prior to the said transaction. Should the approval be granted, the subsequent Licence Holder shall remain liable to compliance with all Licence conditions.

16. **TRANSFER OF LICENCE**

16.1 Should the Licence Holder want to transfer holdership of this Licence, he/she must apply in terms of section 52 of the NEM:WA.

16.2 Any subsequent Licence Holder shall be bound by the conditions of this Licence.

17. **COMMENCEMENT**

17.1 The activities hereby permitted may not commence within 20 (twenty) days of the date of signature of this Licence.

17.2 Should the Licence Holder be notified by the Director of a suspension of the Licence pending any appeals decision on the authorised activities, he/she may not commence with the activities until authorised by the Director in writing.

17.3 After the 20 (twenty) day appeal period has expired and no good cause to extend the appeal period has been submitted, a written notice must be given to the Department that the activity will commence.

17.4 This activity must commence within 5 years from the date of signature of this Licence. If commencement of the activity does not occur within that period, the validity of this Licence lapses and a new application for a Licence must be made for the activity to be undertaken.

17.5 If the proponent anticipates that commencement of the activity would not occur within 5 years, he/she must apply and show good cause for an extension of the Licence 6 (six) months prior to its expiry date.

18. **GENERAL**

18.1 This Licence shall not be transferable unless such transfer is subject to condition 16 above.

18.2 This Licence shall not be construed as exempting the Licence Holder from compliance with the provisions of the National Health Act, 2003 (Act No. 61 of 2003), the National Water Act, 1998 (Act No. 36 of 1998) or any other applicable act, ordinance, regulation or by-law.

18.3 Transgression of any condition of this Licence could result in the suspension of the Licence by the Director.

18.4 This Licence is valid until the combined waste disposal airspace capacity of the Facility has been reached.

18.5 The Licence may be reviewed at any time before the waste disposal airspace capacity is reached. Based on the results of the review, especially compliance to Licence conditions or recommendations

from the audit reports and/or changing legislation, the Licence can be amended or withdrawn, or the validity thereof be extended.

- 18.6 Non-compliance with a condition of this Licence may result in criminal prosecution or other actions provided for in Section 67(1) of the NEM:WA.
- 18.7 In terms of Sections 28 and 30 of the National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended ("NEMA"), and Sections 19 and 20 of the National Water Act, 1998 (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 Licence Holder'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 environmentally acceptable manner.
- 18.8 The Licence Holder must submit an Organic Waste Diversion Plan to the Director on an annual basis.
- 18.9 The information within the Organic Waste Diversion Plan must:
 - 18.9.1 provide a status quo of current organic waste sources and volumes disposed at municipal WDFs, and current rates and procedures of organic waste diversion from WDFs; and
 - 18.9.2 set annual targets and identify procedures that will be implemented to meet the targets for the diversion of organic waste from municipal WDFs, which will accommodate the diversion targets set (50% by 2022) and reaching the 100% diversion by the year 2027.

D. APPEAL OF LICENCE

1. Appeals must comply with the provisions contained in the National Appeal Regulations, 2014 (GN No. 993 of 2014), as amended.
2. An appellant (if the holder of the decision) must, within 20 (twenty) calendar days from the date that the notification of the decision was sent to the holder by the Competent Authority:
 - 2.1 submit an appeal in accordance with Regulation 4 of the National Appeal Regulations, 2014 (as amended) to the Appeal Administrator; and
 - 2.2 submit a copy of the appeal to any registered I&APs, any Organ of State with interest in the matter and the decision-maker i.e., the Competent Authority that issued the decision.
3. An appellant (if NOT the holder of the decision) must, within 20 (twenty) calendar days from the date that the notification of the decision was sent to the registered I&APs by the holder:
 - 3.1 submit an appeal in accordance with Regulation 4 of the National Appeal Regulations, 2014, as amended to the Appeal Administrator; and
 - 3.2 submit a copy of the appeal to the holder of the decision, any registered I&AP, any Organ of State with interest in the matter and the decision-maker i.e., the Competent Authority that issued the decision.
4. The holder of the decision (if not the appellant), the decision-maker that issued the decision, the registered I&AP and the Organ of State must submit their responding statements, if any, to the appeal authority and the appellant within 20 (twenty) calendar days from the date of receipt of the appeal submission.
5. The appeal and the responding statement must be submitted to the address listed below:

By post: Western Cape Ministry of Local Government, Environmental Affairs and Development Planning

Private Bag X9186

CAPE TOWN

8000

By facsimile: (021) 483 4174

By hand: Attention: Marius Venter (Tel: 021 483 3721)

Room 809

8th Floor Utilitas Building, 1 Dorp Street, Cape Town, 8001

By email: DEADP.Appeals@westerncape.gov.za

Note: For purposes of electronic database management, you are also requested to submit electronic copies (Microsoft Word format) of the appeal, responding statement and any supporting documents to the Appeal Authority to the address listed above and/ or via e-mail to Marius.Venter@westerncape.gov.za.

6. A prescribed appeal form as well as assistance regarding the appeal processes is obtainable from the office of the Minister at: Tel. (021) 483 3721, E-mail Marius.Venter@westerncape.gov.za or URL <http://www.westerncape.gov.za/eadp>.

E. DISCLAIMER

The Western Cape Government, the Local Authority, committees or any other public authority or organisation appointed in terms of the conditions of the Licence shall not be responsible for any damages or losses suffered by the holder, developer or his/her successor in any instance where construction or operation subsequent to construction is temporarily or permanently stopped for reasons of non-compliance with the conditions as set out herein or any other subsequent document or legal action emanating from this decision.

Your interest in the future of our environment is greatly appreciated.

Yours faithfully,

SALIEM HAIDER

DIRECTOR: WASTE MANAGEMENT

Cc: (1) Mr. Noe Malise (DWS)

Email: NoeM@dws.gov.za

ANNEXURE I
REASONS FOR THE DECISION

The following information was available to the Department and was considered in the Department's consideration of the application:

- (a) The information contained in the Application Form for a Waste Management Licence, dated 10 November 2022, compiled by GIBB Environmental Consultants.
- (b) The Basic Assessment Report, dated January 2023, compiled by GIBB Environmental Consultants.
- (c) The Air Quality Impact Assessment, dated November 2021, as compiled by EScience Associated (Pty) Ltd.
- (d) The Geohydrological Impact Assessment, dated 2020, as compiled by Aqua Earth Consulting.
- (e) The Geotechnical Investigation Report, dated March 2020, as compiled by JG Afrika (Pty) Ltd.
- (f) The Heritage Impact Assessment, dated 30 September 2019, as compiled by Sativa Travel and Environmental Consultants
- (g) The Route Determination Report, dated 11 June 2020, as compiled by Royal Haskoning DHV (Pty) Ltd.
- (h) The Visual Impact Assessment Report, dated September 2019, as compiled by SRK Consulting (South Africa) (Pty) Ltd. and the review thereof dated 16 March 2022.
- (i) The Wetland Impact Assessment, dated November 2019, as compiled by GIBB Environmental Consultants.
- (j) The Floodline Delineation Report, compiled by Jeffares and Green, dated October 2014.
- (k) The Stormwater Management Reports, compiled by JPCE, dated January 2023.
- (l) The Environmental Management Programme, dated January 2023, as compiled by GIBB Environmental Consultants.
- (m) The Screening Report Tool generated on 5 October 2022.
- (n) The Waste Management Licence Additional Information Annexure signed 16 January 2023.
- (o) The positive RoD issued by the Department of Water and Sanitation on 19 September 2022.
- (p) Comments raised by Interested and Affected Parties (I&AP's) throughout the Public Participation Process, and the applicant and the Environmental Assessment Practitioner's responses thereto.
- (q) The site visit performed at the premises on 10 August 2022.
- (r) Relevant information contained in the Departmental information base.
- (s) The objectives and requirements of relevant legislation, policies and guidelines, including Section 2 of the NEMA.

Alternatives

The following alternatives were considered:

No-Go Alternative

The no-go alternative would apply if the WML variation was not approved. In this instance no further development within the footprint of the WDF would be allowed.

Location Alternatives

As this application is for the expansion of an existing WML, no location alternatives were proposed. Development of Cell 4 and a height increase for Cell 3 at the Devon Valley WDF is preferred over the development of a new WDF.

Environment

The location of the WDF is to the west of and approximately 4 km from Stellenbosch CBD and has a new access road which connects to the R310. This WDF is within the urban edge the Stellenbosch. Roughly 50 m south-east of the site is the Stellenbosch Wastewater Treatment Works (WWTW). The site is surrounded by the communities, Devon Valley (approximately 500m to the east of the site), Onder Papegaaiberg (approximately 700m northeast of the site) and Kayamandi (approximately 2km northeast of the site). In addition, the site is also surrounded by agricultural land and the Animal Welfare Society of Stellenbosch. The WDF is bounded to the immediate east by the Veldwagters River, a tributary of the Eerste River. The river is a seasonal stream that originates on the southern slopes of the Bottelary Hills and flows southwards to join the Eerste River near Vredenheim Estate. The natural topography is a steep slope from west to east with surface run-off being diverted around the two waste bodies by means of concrete lined channels that discharges into the Veldwagters River.

Public Participation Process (PPP):

The PPP in terms of the 2014 NEMA Environmental Impact Assessment Regulations, contained in Government Notice No R. 982 of 4 December 2014 (GN R. 982), as amended, comprised of the following:

- 4 Site notices and 2 posters were placed at locations near to the site.
- Newspaper adverts were placed in Die Burger on 18 November 2022 and the Daily Voice on 18 November 2022.
- Notification letters were submitted to interested and affected parties by email on 18 November 2022 and letters were dropped at adjacent properties where no email addresses were found.
- The PPP was conducted between 18 November 2022 and 11 January 2023.

Authorities Consultation:

The authorities consulted include the following:

- Department of Environmental Affairs and Development Planning: Waste Management
- Department of Environmental Affairs and Development Planning: Development Management
- Department of Environmental Affairs and Development Planning: Air Quality Management
- Stellenbosch Local Municipality
- Cape Winelands District Municipality
- Heritage Western Cape
- Department of Water and Sanitation
- Department of Transport and Public Works Western Cape

Comments and recommendations provided by the relevant authorities have been considered in the evaluation of this application. No authorities objected to the commencement of the activity. Where possible and relevant, the conditions imposed by these authorities have been included in the Waste Management Licence.