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ENVIRONMENTAL MONITORING REPORT 3: FINAL REPORT

FOR

THE OUTENIQUA WASTEWATER TREATMENT WORKS (WWTW), GEORGE EROSION REPAIR



Compiled by:

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Reference:

GEO26/1251/19

Report Period:

October 2024 to June 2026

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**SITE INSPECTIONS AT OUTENIQUA WASTEWATER TREATMENT WORKS, GEORGE, IN
COMPLIANCE WITH THE REHABILITATION PLAN AND DIRECTIVE ISSUED**

ENVIRONMENTAL MONITORING REPORT NO 3: FINAL REPORT

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Environmental Monitoring Report No 3 - Final

This report monitor's compliance against the Directive issued in terms of Section 24G (1) of the National Environmental Management Act 107 of 1998, for the unlawful commencement of erosion repairs and the rehabilitation at the stormwater outlet, at the Outeniqua Wastewater Treatment Works on the Remainder of Erf 325, George (dated 6 June 2024) – DEADP Ref: 14/2/4/2/3/D2/20/0009/24 and the Environmental Authorisation issued on 15 August 2025 - 14/2/4/2/3/D2/20/0009/24.

This monitoring report constitutes the third and final environmental monitoring report, and it covers the work undertaken as part of the aforementioned Directive for the construction of the stormwater outlet structures on the Remainder of Erf 325, George, as well as monitoring the success of the rehabilitation during the contractor's defects liability period.

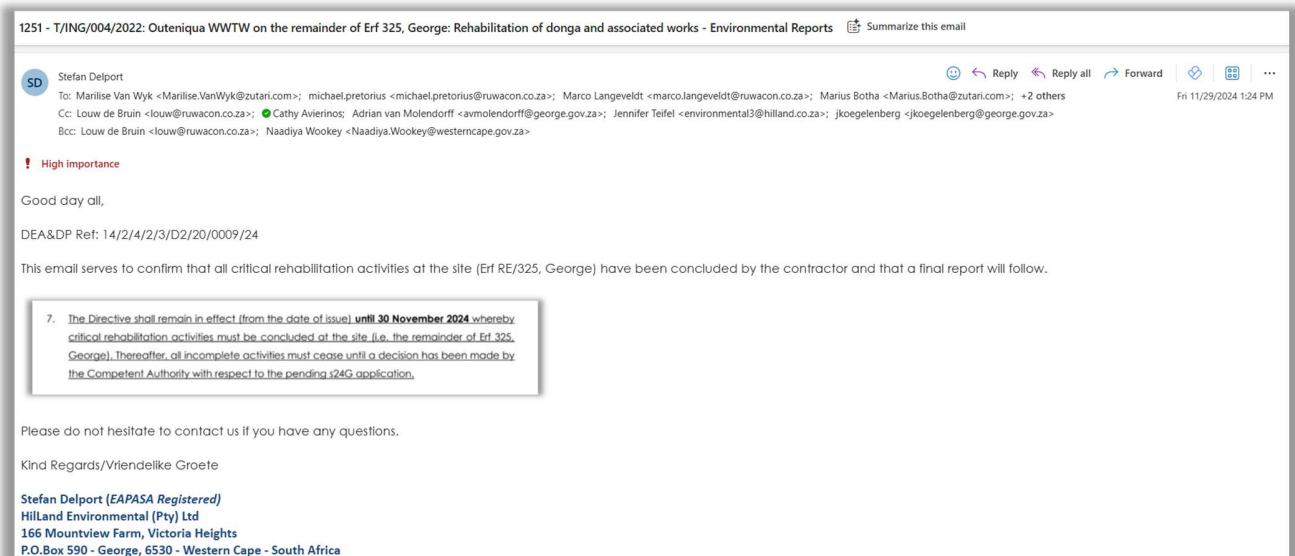
Site inspection from **October 2024 to June 2026**

Date	Comment
9 October 2024	ECO inspection
16 October 2024	ECO inspection
25 October 2024	ECO inspection
30 October 2024	ECO inspection
06 November 2024	ECO inspection
13 November 2024	Meeting and ECO inspection
28 November 2024	ECO inspection pre- completion
29 November 2024	ECO inspection for completion of the Directive works
28 February 2025	ECO interim inspection of rehabilitation
31 March 2025	ECO follow up inspection for additional rehabilitation needed
14 April 2025	ECO inspection
6 May 2025	ECO interim rehabilitation inspection
10 June 2025	ECO inspection to confirm requirements completed
21 May 2026	DEADP Compliance inspection and ECO after May storm inspection
5 June 2026	End of defects liability ECO inspection and after June storm inspection

PHOTOGRAPHIC RECORD FROM OCTOBER 2024 TO JUNE 2026:

Construction activities include (as per the Directive):

- The excavation of areas required to install infrastructure to contain and control degradation of the environment; - **excavation and backfilling completed – end of November 2024.**
- The installation of the final stormwater headwall and energy dissipator below the gabion wall within 32m proximity of the Schaapkop River; - **construction of the headwall and energy dissipator completed – end of November 2024.**
- The replacement of the temporary stormwater infrastructure in the diverted route to a permanent feed (i.e. pipeline infrastructure) into the formalised main stormwater infrastructure to reduce the progression of further erosion in the diverted route; - **pipeline installed and backfilled, shaping completed – end of November 2024.**
- The installation of stormwater outlets, associated pipelines and associated infrastructure (i.e. reno-mattress, retaining walls, gabion boxes, energy dissipator headwall and stone pitching etc.); - **construction of the headwall and energy dissipator completed – end of November 2024.**
- The installation of rehabilitation infrastructure (i.e. silt fencing, bags etc.) within 32m of the watercourse; - **silt fencing in place and maintained – ongoing.**
- The backfilling, reshaping and topsoiling and seeding of areas with the installation of associated rehabilitation infrastructure (i.e. biodegradable materials for contour protection etc.) for the reduction of silt movement; - **completed - end of November 2024, ongoing inspections and maintenance of rehabilitation as required by the EMP.**

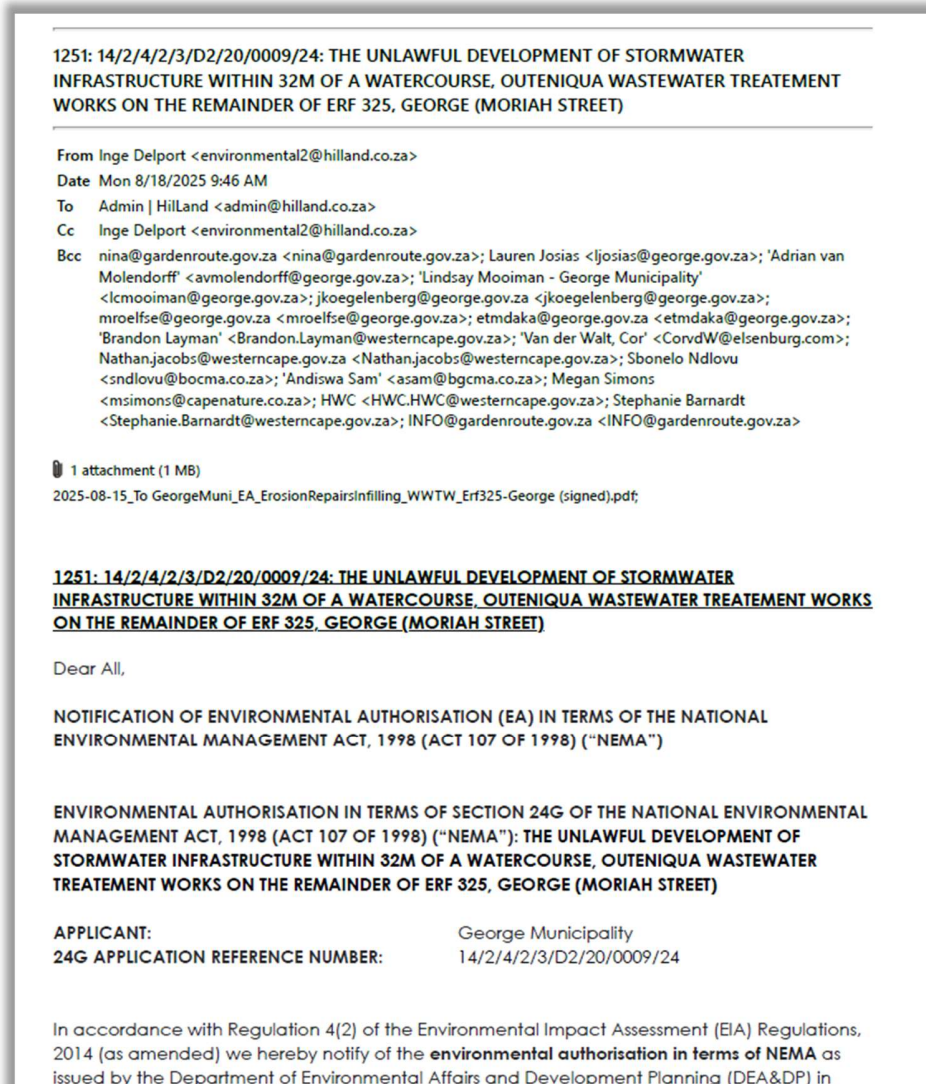


Screenshot to show notification of conclusion in terms of the Directive (dated 29 November 2024).

In terms of the Environmental Authorisation – **15 August 2025**, the following was required:

Condition 6 - Seven-day notification of to the competent authority prior continuation with the development – ***Not yet required, all critical construction activities as set out in the Directive were concluded by the 30th November 2024.***

Condition 7 - Notification of Decision to the Registered I&AP's – ***done 18 August 2025***



Screenshot to show notification of EA to I&AP's (dated 18 August 2025)

Condition 15 - The mitigation measures contained in the Freshwater Impact Assessment (compiled by Confluent Environmental and dated August 2023) must be implemented, *inter alia*:

15.1 The stormwater outlet structure must be inspected on a routine basis to ensure that is free of any blockages and debris and is operating according to design specifications.

- **Ongoing. The stormwater outlet appeared free of blockages during the site inspections conducted by HilLand Environmental (May & June 2025 and May & June 2026)**

15.2 The bed and banks of the river must be routinely inspected (especially following heavy rainfall events) to ensure that the outlet structure is not causing unnecessary erosion of the bed and banks of the river. Any erosion observed must immediately be attended to through appointment of a suitably qualified aquatic specialist.

- **Ongoing. The bed and banks of the river appeared in good condition following the storm events inspections of early May 2026 and June 2026.**

15.3 The reshaping of the banks of the watercourse (i.e. Schaapkop River) to ensure even contours and prevent concentrated flow paths that may cause erosion.

Done as part of the Directive work. Ongoing monitoring as per condition 15.2 above. Has not been necessary to do any further modification of the banks.

15.4 After construction, any exposed earth must be immediately rehabilitated with suitable indigenous vegetation for the protection of soil exposure.

Done as part of the Directive work. Ongoing maintenance was requested at the final site inspection. 28 Feb 2025

15.5 An alien invasive plant management plan must be implemented to prevent the establishment of alien invasive tree species across the slope.

Alien invasive plant management plan is still to be compiled as part of the municipal open space for rivers plan. Alien clearing on site in the works area needs to continue until the larger MMP ACP is in place. Site does have seedling aliens (black wattle, bug weed, Scottish thistle) that need to be pulled out.

29 November 2024 - ECO inspection for completion of the Directive works





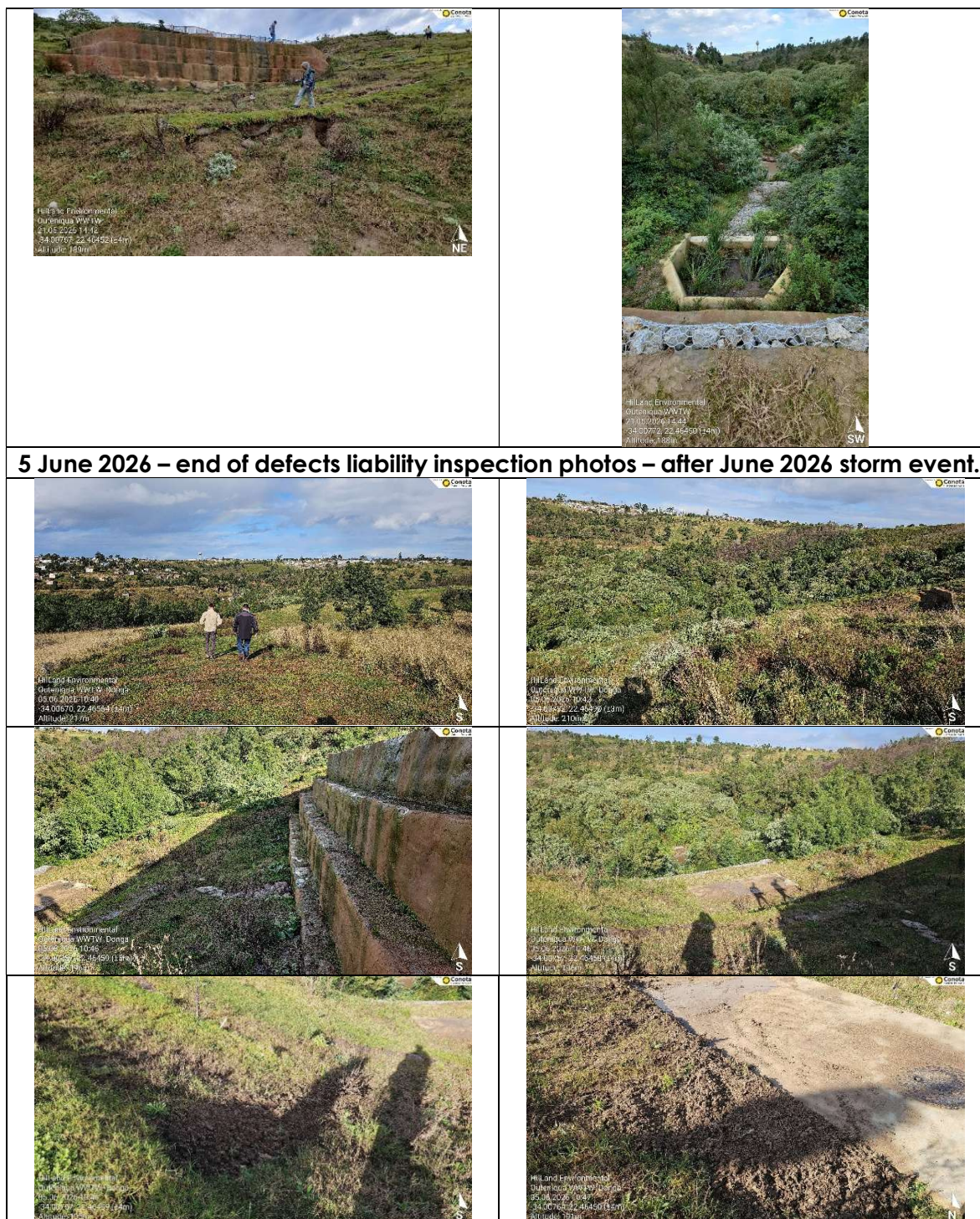


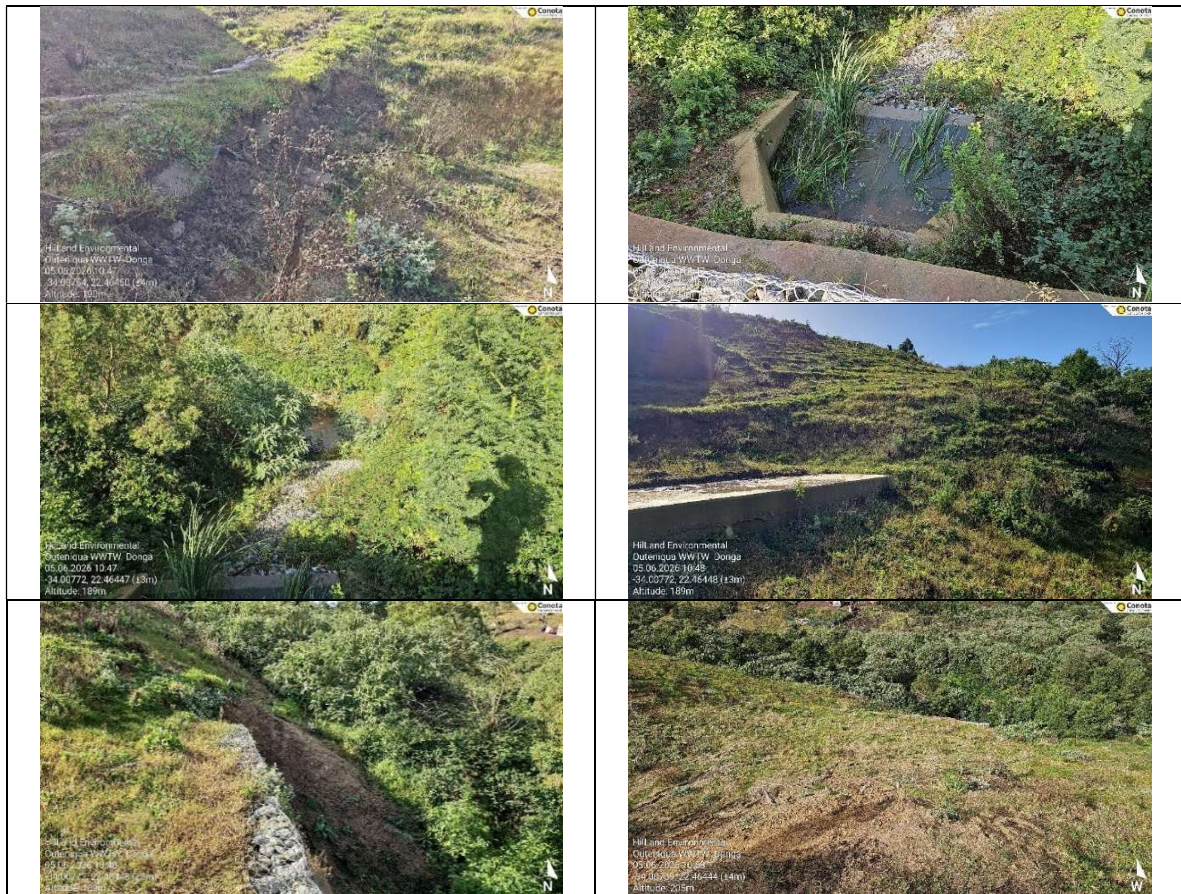


21 May 2026 – DEADP compliance inspection – after May 2026 storm event.









Conclusion

The site was appropriately demarcated with wooden droppers with danger tape flags during construction.

Construction vehicles stayed on the designated haul road.

Silt fences and sandbags were in place to prevent silt and construction materials from washing into the river.

The stormwater outlet headwall and gabion structure were completed within the timeframes of the Directive.

Final shaping was completed.

The contractor was compliant with the Directive in terms of Section 24G (1) of the National Environmental Management Act 107 of 1998.

The post construction rehabilitation and maintenance have been successful, with only minimal repair works required due to runoff / erosion after the significant storm events of May and June 2026.

The stormwater system functioned well and there is no erosion at the riverbank.

Alien infestation is evident in the working area and will require regular maintenance to hand pull seedlings every 6 months.

The surrounding area is thick with alien vegetation and will need an intensive alien control plan and management, this is intended to form part of the Municipal MMP's for river systems – unrelated to the Directive or EA issued.

No additional work has been required to the stormwater system since the completion of the work in terms of the Directive. As a result, there has been no work undertaken in accordance with the EA which was issued 8 months after the Directive works were completed.

The municipal EO will ensure continued compliance with the EA – either through personal inspections or appointment of an external ECO as the case may be.

Hilland Environmental's role as ECO concluded with the works on the Directive (November 2024) and the reported follow-up ECO inspections in terms of the defects liability period (ended June 2026). This report is the final external ECO report for the record in terms of the Directive and EA issued in terms of S24G.