

Environmental Monthly Summary Report

Schuilplaats Road Extension Environmental Monthly Summary Report No. 2 - July 2020

Complete

Score	88.61%	Failed items	1	Actions	0
Project/Site	Schuilplaats Road Extension				
Location	Stellenbosch, Western Cape.				
Project Personnel	Project Manager - Petri Germishuys Martin & East - Martin Maree Martin & East Site Agent - Ryno Maritz Martin & East DEO - Mawethu Mtshafuto Ecosense ECO - Vincent Masefield				
Audit Document Number	Schuilplaats Road Extension Environmental Monthly Summary Report No. 2 - July 2020				
Report Date	4th Aug, 2020				
Prepared By	Vincent Masefield				

Failed Items

1 failed

AUDIT CHECKLIST / 4. ENVIRONMENTAL CONTROL / SPECIFIC CONDITIONS

E21. The construction with and in close proximity to the freshwater features must take place during the drier months.

Non-Compliant

This project was expected to start in early March, however due to the Covid 19 National Lockdown the project programme had to be pushed out further. This contract is only a three month contract and as such the works within the watercourse has to now take place during the winter period. Although the circumstances have dictated when these works have to take place it does mean that a non-compliance rating has been given.

AUDIT DETAILS

A) AUDIT SCOPE

This monthly audit checklist report comments on the performance of the project in terms of implementation of the EMP on the project site, as well as, where required, the sufficiency of the mitigation measures in the EMP to address impacts of the Construction Phase project works on site. This audit checklist report indicates the findings of the compliance inspection undertaken during this reporting month.

B) ASSUMPTIONS AND LIMITATIONS

The findings in this report are based on periodic point in time observations on site made by the ECO during the inspection visit and information/statements provided by project team members. It is thus possible that not all EMP contraventions would have been observed or reported. The nature of compliance audits is that issues of concern or likely concern are focused on given the observations and conditions of the works on site. Frequency of visits to the site by the ECO is currently monthly.

C) ECO DETAILS AND DECLARATION OF INDEPENDENCE

The ECO auditor (s) below hereby declares the required independence and expertise to compile this compliance ECO audit report.

Vincent Masefield of Ecosense CC, (BA Environmental Science and Geography BA (hons) Environmental Water Management, MSc in Geography and 4 year directly applicable auditing experience as project ECO).

AUDIT CHECKLIST

1 failed, 85.48%

1. ENVIRONMENTAL MANAGEMENT ADMINISTRATION

60%

1.1. Is the Environmental Management Programme and Environmental Authorisation (if applicable) on site?

Compliant

1.2. Is Environmental Awareness Training up to date and records stored on file?

Compliant

1.3. Are required contractor Environmental Method Statements in place/approved and on file?

Partial Compliance

Amendments to the Contractor's watercourse works method statement was requested numerous times during this reporting month. Currently the amended method statement has been submitted to the ECO for review and approval.

1.4. Are solid and hazardous waste management records (waste registers, waste manifests and lawful disposal receipts) up to date and on file?

Compliant

1.5. Have previous action items been addressed in a timely manner?

Partial Compliance

Some work and no-go area delineations are still required around site.

2. SITE AND SITE CAMP MANAGEMENT

75%

2.1. Are the site/work boundaries and no-go areas adequately demarcated/fenced/hoarded?

Partial Compliance

Disturbance of ground outside of the work boundaries by a vehicle/plant was observed. Contractor to ensure that project personnel remain within the work boundaries and that the disturbed ground is reinstated (09/07/2020). The site boundaries must be delineated where works on the stormwater channels is taking place and all stockpile areas must be adequately demarcated (23/07/2020).



Photo 1



Photo 2

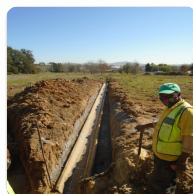


Photo 3

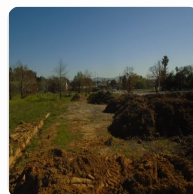


Photo 4

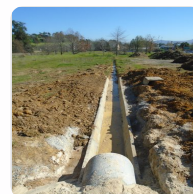


Photo 5



Photo 6

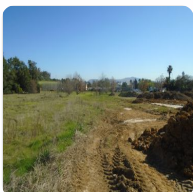


Photo 7

2.2. Are work and no-go areas restrictions adhered to?

Partial Compliance

Refer to Audit Item 2.1 above for details.

2.3. Is the contractor's camp (including site office, stockpile area, toilet facilities, etc.) situated at the approved location and footprint contained as required?

Compliant

2.4. Is there sufficient good drinking water available for employees on site?

Compliant

2.5. Are there sufficient, clean and secured toilets available for employees on site?

Compliant



Photo 8

2.6. Was good management and storage of construction materials and equipment observed on site (i.e. kept neat, covered, secured, at approved locations, etc.)?

Compliant

2.7. Are all fuels being stored appropriately (secure, lockable, sealed and covered areas)? Is bulk fuel (if applicable) stored within a bunded area with a capacity of not less than 110% of the volume being stored?

Compliant

No bulk fuel is stored on site.

2.8. Are all chemicals being stored appropriately (secure, lockable, sealed and covered areas)?

Compliant

3. WASTE MANAGEMENT

71.43%

3.1. Was proper solid waste management/housekeeping observed on site (i.e. in accordance with the waste management plan; all construction areas kept in a neat and tidy condition; daily litter pick up evident; covered and sufficient waste disposal facilities in place and at approved locations, etc.)?

Partial Compliance

At the time of the site inspection on the 23rd of July 2020, one or two pieces of waste was observed downstream from the watercourse works area which required removal. The Contractor subsequently closed out this issue.



Photo 9

3.2. Are wastes being adequately separated into appropriate waste streams and recycled (i.e. scrap metals, plastics, card boards, clean rubble, etc.)?

Compliant



Photo 10

3.3. Is proper hazardous waste management been observed on site (i.e. appropriately separated, handled, stored in separate labeled, covered and appropriately located disposal facility prior to disposal off site)?

Partial Compliance

Toxic waste was uncovered on site when excavating for foundation work of the road to be constructed through the wetland area on site. The ECO was not notified of this uncovering when it happened and discovered this concern during a site inspection. Project Management/Contractor must notify the ECO of such occurrences immediately! Subsequent to the uncovering of this waste, the local municipality was called to assess the waste and a report was produced (attached to this report). Further, waste removal companies Averda and Wastemart have been contacted to assess the toxic waste and provide recommendations to address this issue. An action plan method statement is required from the Contractor/H&S Officer detailing way forward and remedial actions to be undertaken to not only dispose of the waste, but also treat contaminated soils and water at this location. All works in this area have been stopped until a way forward is determined.



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16

3.4. Was proper paint effluent (paint wash water/solvents) management/handling observed on site (i.e. paint wash facility in place; no pollution of the environment, stormwater or sewage system, etc)?

Not Applicable

3.5. Was proper cement waste management observed on site (i.e. correct storage of empty cement bags and no cement wash/excess aggregates observed)?

Compliant

3.6. Was an approved legal water source being used for construction and was there no contravention of applicable water restrictions observed on site?

Compliant

3.7. Was no water wastage observed on site (i.e. faulty/leaking taps, hose pipes, dust suppression, etc.)?

Compliant

4. ENVIRONMENTAL CONTROL

1 failed, 92.86%

4.1. Was topsoil stripped where required, correctly stored and protected for reuse?

Compliant

Topsoil has been stripped where currently applicable as instructed by the engineer. Topsoil is separately stockpiled and delineated.

4.2. Are all construction vehicles/equipment observed to be in a good working order (i.e. no leaking hydrocarbons, etc.)?

Compliant

4.3. Are drip trays being used where required on site (i.e. generators, stationary vehicles, refueling, contaminated equipment, etc.)?

Partial Compliance

Great to see the Contractor using drip trays, however, the drainage holes in these trays must be closed/sealed (23/07/2020).



Photo 17

4.4. Was cement/concrete handling, storage and mixing activities conducted appropriately (i.e. unused bags securely stored; soil protection and waste water controls in place; wind protection for cement silos, etc.)?

Compliant

4.5. Are adequate erosion and sediment control measures observed in place on site (i.e. bare soils stabilised, use of straw bales, etc.)?

Compliant

4.6. Were noise control measures observed in place on site, with no evidence of approved working hours/noise limits being exceeded?

Compliant

4.7. Were adequate stormwater control measures observed in place on site (i.e. no erosion or flooding on protected or neighbouring areas; no encroaching materials into stormwater systems; all stormwater channels observed in a clean and sediment free condition; all stormwater drop inlets adequately covered to mitigate sediment ingress into the systems; no de-watering into stormwater system without authorisation, etc.)?

Compliant

4.8. Have authorised access/delivery points/routes/parking/use of municipal sidewalks and land, etc., been adhered to and have not lead to undue environmental damage or nuisance?

Compliant

4.9. Were internal and external roads observed in a clean and sediment free condition?

Partial Compliance

The public road bordering the site must be cleaned of all sediment and maintained in a sediment free condition at all times (23/07/2020). This issue has been subsequently addressed by the Contractor.

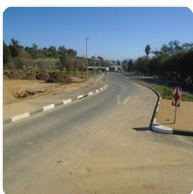


Photo 18

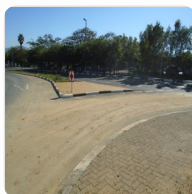


Photo 19

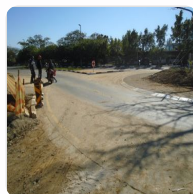


Photo 20

4.10. Are Trenches and excavations closed as soon as possible after services have been laid in them, to prevent them from posing safety hazards to people, traffic and animals and to prevent rainwater erosion?

Compliant

4.11. Were dust and wind-blown sand controls in place on site (i.e. non-potable water used for dust suppression; loose stockpiles covered; bare soils/areas stabilised; vehicle speed limits adhered to, etc.)?	Compliant
4.12. Were fire control measures satisfactory on site (i.e. no evidence of unauthorised fires and no undue fire risks observed)?	Compliant
4.13. Was there adequate protection (if applicable) of flora and fauna observed on site (i.e. wild animals unharmed; no unnecessary or unauthorised damage to flora; alien invasive vegetation under control, etc.)?	Compliant
4.14. Were emergency procedures satisfactorily carried out for hydrocarbon spills, fires and/or floods and was environmental remediation satisfactorily conducted?	Not Applicable
4.15. Is there visible evidence of unauthorized entry, stockpiling, dumping or storage of equipment or materials within the demarcated wetland areas? Is the footprint of all construction related activities (e.g. sewer installation) kept at minimum as possible to limit any negative impacts and wetland rehabilitated to a satisfactory level?	Compliant
4.16. Are all required heritage permits in place and has there been no unauthorised disturbance of heritage features on the site? Correct procedures followed in case of suspected archeological or palaeontological artifacts being discovered?	Not Applicable
4.17. Are all inactive or completed areas clean, stabilised against erosion and where applicable, rehabilitated to an acceptable level?	Not Applicable

5. ENVIRONMENTAL AUTHORISATION SECTION

SCOPE OF AUTHORISATION

100%

E1. The holder is authorised to undertake the listed activities specified in section B above in accordance with and restricted to alternative 1, as described in the BAR dated 28 August 2017 on the site as described in section C above.	Compliant
E2. The Environmental Authorisation is valid for a period of five years from the date of issue, within which commencement must occur.	Compliant
E3. The development must be concluded within ten years from the date of commencement of the listed activities.	Compliant
E4. The holder shall be responsible for ensuring compliance with the conditions by any person acting on his/her behalf, including an agent, sub-contractor, employee or any person rendering a service to the holder.	Compliant

E5. Any changes to, or deviations from the scope of the alternative described in section B above must be accepted or approved. In writing, by the Competent Authority before such changes or deviations may be implemented. In assessing whether to grant such acceptance/approval or not, the Competent Authority may request information in order to evaluate the significance and impacts of such changes or deviations, and it may be necessary for the holder to apply for further authorisation in terms of the applicable legislation.

Compliant

The ECO is unaware of any required changes to the scope of the authorisation.

WRITTEN NOTICE TO THE COMPETENT AUTHORITY

E6. Seven calendar days' notice. In writing, must be given to the Competent Authority before commencement of construction activities.

100%

6.1. The notice must make clear reference to the site details and EIA Reference number given above.

Compliant

Commencement letter was sent to DEA&DP on the 5th of March 2020.

**6.2. The notice must also include proof of compliance with the following conditions described herein:
Conditions : 7, 8, and 12.**

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

NOTIFICATION AND ADMINISTRATION OF APPEAL

E7. The holder must in writing, within 14 (fourteen) calendar days of the date of this decision-

100%

7.1 notify all registered Interested and Affected Parties (I&APs) of-
7.1.1 the outcome of the application;
7.1.2 the decision of the application as included in annexure 3;
7.1.3 the date of the decision; and
7.1.4 the date the decision was issued.

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

7.2 draw the attention of all registered I&APs to the fact that an appeal may be lodged against the decision in terms of the National Appeals Regulations, 2014 (as amended) detailed showed in Section G of the EA;

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

7.3 draw the attention of all registered I&APs to the manner in which they may access the decision;

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

7.4 provide the registered I&APs with:

- 7.4.1 the name of the holder (entity) of this Environmental Authorisation.
- 7.4.2 Name of the responsible person for this Environmental Authorisation,
- 7.4.3 Postal address of the holder,
- 7.4.4 Telephonic and fax details of the holder,
- 7.4.5 E-mail address, if any, of the holder, and
- 7.4.6 Contact details (postal and/or physical address, contact number, facsimile an e-mail address) of the decision-maker and all registered I&APs in the event that an appeal is lodged in terms of the 2014 National Appeals Regulations (as amended).

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

E8. The listed activities, including site preparation, must not commence within 20 (twenty) calendar days from the date the application notified the registered I&APs of this decision. In the event that an appeal is lodged with the Appeal Authority, the effect of this Environmental Authorisation is suspended until the appeal is decided i.e. the listed activities, including site preparation, must not commence until the appeal is decide.

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

MANAGEMENT OF ACTIVITIES

100%

E9. The draft Environmental Management Programme (EMPr) dated August 2017, submitted as part of the application for Environmental Authorisation is hereby approved and must be implemented.

Compliant

E10. The MMP adopted as part of this Environmental Authorisation must be implemented.

Not Applicable

The MMP is not applicable to the scope of this project works. It is to be done under the authorised residential development nearby.

E11. The EMPr and MMP must be included in all contract documentation for all phases of implementation.

Compliant

The project manager has indicated that the EMPr does form part of the contract documentation.

MONITORING

100%

E12. The holder must appoint a suitably experienced Environmental Control Officer (ECO), or site agent where appropriate, before commencement of any land clearing or construction activities to ensure compliance with the EMPr, MMP and the conditions contained herein.

Compliant

Proof of compliance with these conditions was submitted in the commencement letter which was sent to DEA&DP on the 5th of March 2020.

E13. A copy of the Environmental Authorisation, EMPr, MMP, Audit reports and Compliance monitoring reports must be kept at the site of the authorised activities, and must be made available to anyone on request. Including publicly accessible website.

Compliant

The above are available on site, however the ECO is unsure as to whether a publicly accessible website is being used to store these documents.

E14. Access to the site referred to in Section C must be granted, and environmental reports mentioned above must be produced, to any authorised official representing the Competent Authority who requests to see it for the purpose of assessing and/or monitoring compliance with conditions contained herein.

Compliant

The DEA&DP case officer Samornay Smidt visited the site in March 2020.

AUDITING

100%

E15. In terms of regulation 34 of the NEMA EIA regulations, 2014 (as amended), the holder must conduct environmental audits to determine compliance with the conditions of the Environmental Authorisation, the EMPr, MMP and submit Environmental Audit Reports to the Competent Authority. The Audit Report must be prepared by an independent person and must contain all the information required in Appendix 7 of the NEMA EIA Regulations, 2014 (as amended).

The holder must undertake an environmental audit (quarterly for the duration of construction phase) and submit Environmental Audit Reports to the Competent Authority (once every six months during the construction phase). The final Environmental Audit Report must be submitted to the Competent Authority (six months after operation commencement).

The holder must, within 7 days of the submission of the report to the Competent Authority, notify all potential and registered I&APs of the submission and make the report available to anyone on request and on a publicly accessible website (if applicable).

Not Applicable

Noted, but not yet applicable.

SPECIFIC CONDITIONS

1 failed, 83.33%

<p>E16. Should any heritage remains be exposed during excavations or any other actions on site, these must immediately be reported to the Provincial Heritage Resources Authority of the Western Cape. Heritage Western Cape. Heritage remains uncovered or disturbed during earthworks must not be further disturbed until the necessary approval has been obtained from Heritage Western Cape.</p> <p>Heritage remains include: meteorites, archaeological and/or palaeontological remains (including fossils shells and trace fossils): coins; indigenous and/or colonial ceramics: any articles of value or antiquity; marine shell heaps; stone artifacts and bone remains; structures and other built features with heritage significance; rock art and rock engravings; and/or graves or unmarked human burials including grave goods and/or associated burial material.</p>	<p>Not Applicable</p>
<p>E17. A qualified archaeologist and/or palaeontologist must be contracted where necessary (at the expense of the holder) to remove any heritage remains. Heritage remains can only be disturbed by a suitably qualified heritage specialist working under a directive from the relevant heritage resources authority.</p>	<p>Not Applicable</p>
<p>E18. The relevant requirements with respect to occupational health and safety must be adhered to at all times.</p> <p>Client H&S Officer to monitor for such.</p>	<p>Compliant</p>
<p>E19. The design of the storm water system for the proposed development must be undertaken in conjunction with that for the recreated wetland area to ensure that the wetland feature is not dominated by surface water run-off from the development.</p> <p>Not applicable to this portion/works of the authorisation.</p>	<p>Not Applicable</p>
<p>E20. The section of the link road crossing the watercourse must not impede surface and sub-surface flow within the watercourse.</p>	<p>Compliant</p>
<p>E21. The construction with and in close proximity to the freshwater features must take place during the drier months.</p> <p>This project was expected to start in early March, however due to the Covid 19 National Lockdown the project programme had to be pushed out further. This contract is only a three month contract and as such the works within the watercourse has to now take place during the winter period. Although the circumstances have dictated when these works have to take place it does mean that a non-compliance rating has been given.</p>	<p>Non-Compliant</p>

6. GENERAL AUTHORISATION SECTION

100%

CONDITIONS FOR IMPEDING OR DIVERTING THE FLOW OF WATER OR ALTERING THE BED, BANKS, COURSE OR CHARACTERISTICS OF A WATERCOURSE

100%

(1) The water user must ensure that:

- (a) impeding or diverting the flow or altering the bed, banks, course or characteristics of a watercourse do not detrimentally affect other water users, property, health and safety of the general public, or the resource quality;
- (b) the existing hydraulic, hydrologic, geomorphic and ecological functions of the watercourse in the vicinity of the structure is maintained or improved upon;
- (c) a full financial provision for the implementation of the management measures prescribed in the General Authorisation, including an annual financial provision for any future maintenance, monitoring, rehabilitation, or restoration works, as may be applicable; and
- (d) upon written request of the responsible authority, they implement any additional management measures or monitoring programmes that may be reasonably necessary to determine potential impacts on the water resource or management measures to address such impacts.

Compliant

(2) Prior to the carrying out of any works, the water user must ensure that all persons entering on -site, including contractors and casual labourers, are made fully aware of the conditions and related management measures specified in the General Authorisation.

Compliant

The ECO conducted an environmental awareness training session for site staff on the 1st of June 2020. The Contractor must ensure that they induct any additional personnel who will be working within the watercourse area.

- (3)(a) The water user must ensure that -
- any construction camp, storage, washing and maintenance of equipment, storage of construction materials, or chemicals, as well as any sanitation and waste management facilities -
 - (i) is located outside the 1 in 100 year flood line or riparian habitat of a river, spring, lake, dam or outside any drainage feeding any wetland or pan, and
 - (ii) is removed within 30 days after the completion of any works.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20.

(3)(b) The water user must ensure that the selection of a site for establishing any impeding or diverting the flow or altering the bed, banks, course or characteristics of a watercourse works:

- (i) is not located on a bend in the watercourse;**
- (ii) avoid high gradient areas, unstable slopes, actively eroding banks, interflow zones, springs, and seeps;**
- (iii) avoid or minimise realignment of the course of the watercourse;**
- (iv) minimise the footprint of the alteration, as well as the construction footprint so as to minimise the effect on the watercourse.**

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20.

(3)(c) The water user must ensure that a maximum impact footprint around the works is established, clearly demarcated, that no vegetation is cleared or damaged beyond this demarcation, and that equipment and machinery is only operated within the delineated impact footprint.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20. No issues noted by or reported to the ECO during this reporting period.

(3)(d) The water user must ensure that measures are implemented to minimise the duration of disturbance and the footprint of the disturbance of the beds and banks of the watercourse.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20.

(3)(e) The water user must ensure that measures are implemented to prevent the transfer of biota to a site, which biota is not indigenous to the environment at that site.

Compliant

Specialist studies indicated that there were no species of concern on this site.

(3)(f) The water user must ensure that all works, including emergency alterations or the rectification of incidents, start upstream and proceed in a downstream direction, to ensure minimal impact on the water resource.

Compliant

(3)(g) The water user must ensure that all material excavated from the bed or banks of the watercourse are stored at a clearly demarcated location until the works have been completed, upon which the excavated material must be backfilled to the locations from where it was taken (i.e. material taken from the bed must be returned to the bed, and material taken from the banks must be returned to the banks).

Compliant

All excavated materials have been stockpiled separately for appropriate reuse where applicable.

(3)(i) The water user must ensure that alterations or hardened surfaces associated with such structures or works -
(i) are structurally stable;
(ii) do not induce sedimentation, erosion or flooding;
(iii) do not cause a detrimental change in the quantity, velocity, pattern, timing, water level and assurance of flow in a watercourse;
(iv) do not cause a detrimental change in the quality of water in the watercourse;
(v) do not cause a detrimental change in the stability or geomorphological structure of the watercourse; and
(vi) does not create nuisance condition, or health or safety hazards.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20.

(3)(j) The water user must ensure that measures are implemented at alterations, including at existing structures or activities, to -
(i) prevent detrimental changes to the breeding, nesting or feeding patterns of aquatic biota, including migratory species;
(ii) allow for the free up and downstream movement of aquatic biota, including migratory species; and
(iii) prevent a decline in the composition and diversity of the indigenous and endemic aquatic biota.

Compliant

No issues noted by or reported to the ECO during this reporting period. Additionally, specialist studies indicated that there were no species of concern on this site.

(3)(k) The water user must ensure that no substance or material that can potentially cause pollution of the water resource is being used in works, including for emergency alterations or the rectification of reportable incidents.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20.

(3)(l) The water user must ensure that measures are taken to prevent increased turbidity, sedimentation and detrimental chemical changes to the composition of the water resource as a result of carrying out the works, including for emergency alterations or the rectification of reportable incidents.

Compliant

As described in the Method Statement submitted and approved by DWS on 17/06/20. Additionally, water quality screening is being conducted weekly on this site. No significant issues noted by the ECO during this reporting period.

(3)(m) The water user must ensure that in- stream water quality is measured on a weekly basis during construction, including for emergency alterations or the rectification of reportable incidents, which measurement must be by taking samples, and by analysing the samples for pH, EC/TDS, TSS/Turbidity, and /or Dissolved Oxygen ("DO ") both upstream and downstream from the works.

Compliant

In-stream water quality monitoring is being conducted on a weekly basis. Water screening results are attached to this audit report.

(3)(n) The water user must ensure that in- stream flow, both upstream and downstream from the works, is measured on an ongoing basis by means of instruments and devices certified by the South African Bureau of Standards ("SABS "), and that such measurement commences at least one week prior to the initiation of the works, including for emergency alterations or the rectification of reportable incidents.

Compliant

No in-stream flow is being monitored as the stream has been canalised and the construction works are not affecting the flow. Observations regarding flow rates are included in observation notes taken and documented in the attached water quality screening results document. It must be noted that property owners upstream have been releasing water from their reservoirs into the stream which has been flooding the Contractor's works area and adjacent wetland areas. Council should address this issue.

(3)(o) During the carrying out of any works, the water user must take the photographs and video- recordings referred to in paragraph (p) below, on a daily basis, starting one (1) week before the commencement of any works, including for emergency structures and the rectification of reportable incidents, and continuing for one (1) month after the completion of such works:

Compliant

The ECO took the required photos on 25/06/2020 and during each weekly water quality screening conducted. The Contractor indicated that they would continue to undertake the remaining required photographic evidence as stipulated in the GA conditions for the remainder of the work period in the watercourse.

(3)(p) The following videos recordings and photographs must be taken as contemplated in paragraph (o) above:

- (i) one or more photographs or video -recordings of the watercourse and its banks at least 20 meters upstream from the structure;**
- (ii) one or more photographs or video -recordings of the watercourse and its banks at least 20 meters downstream from the structure; and**
- (iii) two or more photographs or video -recordings of the bed and banks at the structure, one of each taken from each opposite bank.**

Compliant

Refer to Audit Item 3 (o) above for details.

SIGN OFF

SIGNATURE OF AUDITOR



Vincent Masefield

4th Aug, 2020 2:47 PM SAST

Appendix



Photo 1



Photo 2



Photo 3



Photo 4



Photo 6



Photo 5



Photo 8



Photo 10



Photo 7



Photo 12



Photo 9



Photo 11



Photo 13



Photo 14



Photo 16



Photo 18



Photo 15



Photo 20



Photo 17



Photo 19