Barings – Access Estate
BURTONS Contractors

Erosion and Sediment Inspection Report
Inspection Date: 01 November 2024

Attendees:

- Bradley Cole
- Mustafa Ak
- Ben Bracken

CPESC Auditor: Bradley Cole (CPESC #7645)
Signature:

Instructions:

- Where an item is not applicable, N/A is to be placed in the comments box.
- Where a non-conformance is identified, a brief explanation is to be provided in the comments box.
- The completed checklist and details of any corrective are to be provided to the Environment Manager for action and rectification timeframes agreed.

⊗ **Project ESCP cited**

Requirement / Aspect	Yes/ No (Y/N)	Comment
General		
Were previous audit actions closed out in agreed timeframes?	N/A	This review is the first site audit following commencement of works on the site. No outstanding actions from previous site inspections remain open.
Has an approved ESCP been prepared for the work area?	Y	ESCP for the development has been prepared and implemented. Minor updates for progress of works are to be undertaken with progression of works.
Are construction permits and approvals in place?	Y	Works are undertaken in accordance with approval.
Are basin / discharge records recorded and available?	N/A	Basins are constructed with no discharge from site undertaken during the month.
Are internal / self-assessments being undertaken and documented?	Y	Burtons Contractors personnel undertake internal assessments.
Are weather records / monitoring being undertaken and recorded?	Y	Site weather records are maintained from local weather station (Horsley Park AWS).
Is the relevant monitoring being undertaken?	Y	Site monitoring in accordance with the CEMP is being undertaken.
Is the site generally tidy and well organised?	Y	Minimal waste / rubbish and initial drainage works commenced. The site is being established under the current works staging.
Is disturbance being minimised?	Y	The site is being established under the current works staging. Works for commencement of earthworks and development of Lot 2 on the site .
Is all work (including storage and stockpiling) within the identified project boundary?	Y	All works are contained within the Project boundary.

Requirement / Aspect	Yes/ No (Y/N)	Comment
Erosion and Sediment Controls		
Are measures installed as per ESCP?	Y	The site is being established under the current works staging. With controls implemented as per the ESCP.
Are measures installed correctly (i.e. sizing, effective)?	Y	Controls are implemented to accommodate site conditions.
Are entry / exit controls in place and effective?	Y	Site entry is stable with aggregate entry and access road.
Are offsite water diversions in place?	Y	The site is largely bound by external drainage swales / berms for the management of off site water as per the ESCP.
Are drains functional (unblocked, connected)?	Y	Drains were in place and effective.
Are controls maintained (i.e. sediment accumulation, wear and tear, consistent with work progression)?	Y	Controls are established and maintained.
Is sediment fence installed correctly and intact?	Y	Sediment fence installation is trenched in an effective.
Are traps installed appropriately and maintained (i.e. free of sediment accumulation)?	Y	Check controls are installed along the internal drainage areas for sediment traps.
Is dirty water collected in appropriate locations for management?	N/A	No dirty water is retained on the site with minimal rainfall and the commencement of the establishment of the site under the current staging of works.
Basins		
Are basins installed as per ESCP?	Y	Basins are installed for active work areas with additional sumps installed for effective transfer of water as per formal correspondence during the month.
Are appropriate identification / markers present at basin locations?	N/A	No markers in basins.
Are basins walls and inlets stable and operational?	Y	Basin walls are stable and fabric covered.
Are spillways stable and operational?	Y	Basins are operational and constructed as per Type B basin standard design
Do basins currently hold water?	Y	Basins do not currently hold water with no recent rainfall events. Basins are being actively managed and reviewed for operation.
Has rainfall occurred in past 5 days? (10 days for operational sediment basin)	Y	No rainfall has occurred in the preceding 5 days – (Horsley Park AWS)
Has any overflow occurred?	N	No basin overflow has occurred.
Has water been treated/tested?	Y	Basin auto dosing units are in pace and operating.
Are sediment levels below 60% of allowable levels?	Y	Basins are newly constructed and have no sediment.
Has sediment removal occurred? And has sediment been appropriately managed?	N	Basins are newly constructed and sediment removal has not been undertaken this month.

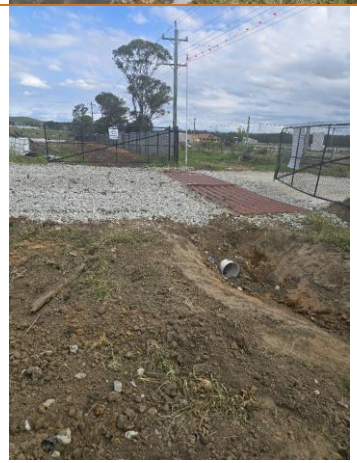
GENERAL SITE CONDITION NOTE
The ESC inspection undertaken on the Barings Altis Site reviewed the commencement of works and establishment of erosion and sediment controls under the occupation of Burtons Contractors for the month of October. The inspection included a review of all site activity including the implementation of catch drains, and construction of the AB2 basin as detailed in the approved erosion and sediment control plan for the Project to ensure effective control implementation and to offer potential modifications to the existing ESC measures for improved management and effective construction practices. The works undertaken for the Project include the establishment of boundary controls, access areas and basin implementation to facilitate the commencement of works for the Lot 2 earthworks. Dust and water management on site are performing well with no visible dust observed and drainage swales installed with check controls for water transfer were installed effectively. The dewatering of the dam is continuing with measures implemented for clean water transfer off the site through existing drainage infrastructure. The site is very tidy and organized and is well presented with designated access routes and signage. Controls are maintained and appear effective. The site is forecasting commencement of earthworks for Lot 2 and progression of site activity to design. The installed controls are working well for effective sedimentation control.

The following corrective actions have been identified during the inspection. Actions are to be closed out in the agreed timeframe and evidence documenting the close out of the actions provided to the auditor for verification.

Timeframe reference: L – Low (7 days), M – Medium (3 days), H – High (1 day), I – Immediate

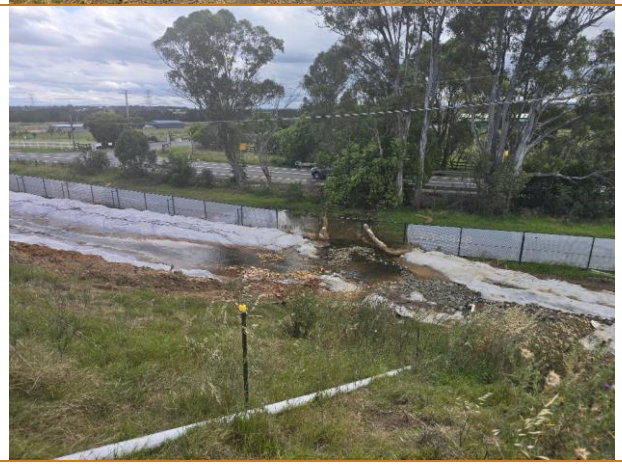
Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
REC-001 Recommendation On the southern boundary where the berm meets the drain, an improvement would be to integrate the two with water running along the berm to be transferred into the drain and then into the Basin for management.		L	M. Ak	
REC-002 Recommendation The berm to the northern boundary of the site runs down a slope which may scour in high rainfall. Implement check controls at approximately 15m spacings on the slope adjacent to the berm control prior to rainfall.		L	M. Ak	

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
REC-003 Recommendation The former access to the property forms a channel and has potential for site water to exit uncontrolled. Implement a berm control to ensure water is retained on site.		L	M. Ak	It is noted this action was completed during the inspection.
REC-004 Recommendation The end of the berm along the road frontage for Mamre Road has potential for dirty water to mix with the clean water leaving the site. A separation berm to retain site water should be implemented. Based on the retention of the groundcover, the berm would be required to hold approx. 748m3 of runoff to accommodate the 95% basin design requirement.		L	M. Ak	

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
REC-005 Recommendation The clean water drain has a section of exposed material on the batter which may result in sedimentation of the watercourse. Implement a strip of geofabric to cover the exposed material and retain clean water passage.		L	M. Ak	
REC-005 Recommendation The pipe under the access road is not installed as per the ESCP which calls for a larger diameter pipe. A second pipe is recommended to achieve the required flow rate. a. The approximate flow of the twin 300mm pipes would be 320L/S or 0.32m3/sec. The required flow rate as designed for the basin 2 in the southwestern portion of the site is 0.268m3/sec. Therefor ethe twin 300mm pipes would be deemed adequate.		L	M. Ak	

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
OB-001 Observation The southern boundary swale drain is installed for on site water management. Water in the drain is directed to the basin.				
OB-002 Observation The southern boundary implements a diversion berm where landform has water potentially entering the site. The berm is installed well and has utilized topsoil to allow for vegetation growth as protective cover.		N/A		

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
OB-003 Observation A sump has been constructed on Lot 11 where elevations direct overland flow to the north east. The sump is proposed to accommodate the 5-day 85% catchment calculation for the 3.11ha catchment for Lot 11 until elevation changes as part of the earthworks stage allow for the catchment to be directed to the approved AB2 basin.		N/A		
OB-004 Observation A berm has been implemented along the northern boundary to contain site water. The external batter is protected by fabric to limit sediment runoff from the berm.		N/A		

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
OB-005 Observation The farm dam on the site is being dewatered. The dam has capacity to retain site water flow as required should a large rainfall event be received.		N/A		
OB-006 Observation The dewatering of the dam is undertaken through existing drainage infrastructure along the western boundary of Mamre Road. A constructed drainage line which is lined with fabric is utilized to transfer water from the site.		N/A		

Action (Observation / Recommendation)	Photo	Timeframe (L,M,H,I)	Responsibility	Close out Comment
OB-007 Observation Basin AB2 is installed as per the deign and will be used to manage water on the site for the Lot 2 earthworks.		N/A		

The below section is to be completed by the Environment Manger / Site Construction Manager following completion of the identified actions.

I certify that all identified actions have been addressed and closed out in the agreed timeframe as documented above.

Name:	
Signature:	
Date:	