

Our Reference: PUB (CWD) 513/13/002

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9 Apr 2019

Circular to Professional Institutes/ Associations

Dear Sir/Madam

ENHANCEMENT TO EARTH CONTROL MEASURES (ECM) REQUIREMENTS

- Joint Audit Check by Contractor and QECP

This circular serves to inform the construction industry of the enhancement to the ECM requirements. The enhancement is to foster closer collaboration between the building contractor and Qualified Erosion Control Professional (QECP) to ensure that effective ECM are implemented at the construction site, so as to prevent silty water from affecting our waterways.

2 Currently, building contractors are required to provide ECM at the construction sites to prevent causing silty discharge. The ECM plan is designed by a QECP engaged by the contractor. Besides designing the ECM, the roles of the QECP includes ensuring the ECM installed on site is done according to the ECM Plan, conducting regular inspection of ECM installed on site, revising ECM if needed in tandem with the project phasing, and providing ECM expertise to the contractor.

3 From our site observations as well as engagement of QECPs via the quarterly QECP Review Sessions, we noted that some contractors implemented ECM and carried out earthworks without involving their QECP. In some cases, this approach has resulted in sub-standard ECM, and caused silty water problem within the site and silty discharge affecting the waterways.

4 To prevent the above problem, regulatory intervention is appropriate to catalyse a closer ECM collaboration between the building contractors and their QECP, to ensure proper implementation of ECM.

5 In consultation with Institution of Engineers, Singapore (IES), Association of Consulting Engineers Singapore (ACES) and Singapore Contractors Association Limited (SCAL), we will include the following requirement under the ECM Clearance Certificate:

A ECM audit check shall be jointly carried out by the contractor and his QECP within 6 months upon the start of the construction or one third of the project construction period, whichever is shorter. The audit form, to be duly signed by the contractor and QECP, shall be submitted to PUB within 2 weeks upon completion of the audit.

A sample audit form is attached.

Please note that:

- The above requirement can be executed as one of the regular ECM site inspections agreed between the contractor and the QECP, as deemed necessary by the QECP for the project. It is not meant to imply that one ECM site check by the QECP is suffice for the project duration.
- Non-compliance with any requirements of the ECM Clearance Certificate including the above requirement is an offence under the Sewerage and Drainage Act.

6 The above requirement will take effect for all ECM plan submissions made from 1 June 2019.

Thank you

Yours faithfully



QUAH HOCK LAI
For DIRECTOR
CATCHMENT & WATERWAYS DEPARTMENT

DISTRIBUTION (via e-mail only)

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All CORENET e-info subscribers

**THE SEWERAGE AND DRAINAGE ACT (CAP 294)
SITE AUDIT BY BUILDER AND
QUALIFIED EROSION CONTROL PROFESSIONAL ON ECM**

Date				
To	Public Utilities Board 82 Toh Guan Road East #03-08 Singapore 608576			
Instruction				
<ul style="list-style-type: none"> <i>This form is to be completed by the Builder and QECP responsible for the implementation and design of Earth Control Measures (ECM) for the project respectively.</i> <i>The builder shall submit the completed form to PUB as required under the ECM clearance certificate within 2 weeks upon completion of the site audit.</i> 				
Particulars of Project				
ECM Certificate No.				
Project Reference No.				
Project Title				
Commencement and Completion Date				
Developer				
Builder				
Particulars of QECP				
Name of QECP				
Key Checklist				
		Yes	No	N.A.
1	Treatment plant(s) have been adequately provided on site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Holding pond(s) have been adequately provided on site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Cut-off drain has been provided and connected to the holding pond on site	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	The current earthwork on site is carried out in accordance with the work phasing under the approved ECM plan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	No internal drainage outlet is leading directly, or indirectly, to the public drain except the ECM designated outlet(s). Any such drainage outlets have been completely filled and sealed off.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Endorsement by Builder and QCEP

We have carried out an ECM audit check on _____ at the above project site and found that the Earth Control Measures (ECM) at the site were adequate and implemented in accordance with the approved ECM plan

*Builder's Project Manager
Name, Date, Signature
and Company Stamp*

*QCEP
Name, Date, Signature
and QCEP Stamp*