

Attachment-7-7-1 Stormwater Monitoring

1.0 CONTROL MONITORING

The only bulk chemicals stored onsite is diesel fuel for the emergency back-up diesel generators. Control measures (i.e., bunds, tanks with level alarms, hydrocarbon interceptors with level alarms) are located at the sources of storage and transfer. See Attachment 4-8-1 Operational Report for further information.

Rainwater runoff from impermeable areas of the site is collected via the onsite storm water drainage network in accordance with the SDCC Planning Ref. SD16A/0093. This network will convey the stormwater via hydrocarbon interceptors to one of 2 no. attenuation storm cells (See Drawing 21_123C-CSE-00-XX-DR-C-1100). The attenuated stormwater discharges offsite at 1 no. Emission Points (SW1).

The stormwater drainage network is be equipped with hydrocarbon interceptors to capture any diesel spillages to hardstanding areas, as well as fuels from vehicles using the internal road network. The hydrocarbon interceptors are equipped with level detectors that connect to the BMS/EPMS critical alarm. These will be used to capture any hydrocarbons have entered the stormwater network. See Attachment 4-8-1 Operational Report for further information.

The bulk diesel tanks have diesel probes within the bund, connected to an alarm, within the concrete bund to detect diesel inside of the bund. The bunds are constructed of suitable concrete and have undergone testing for their integrity during the commissioning phase. All bunds and pipelines are integrity tested following installation by vendor.

The containerised emergency backup generators include housing includes retention bunding in the base of the container, there are leak detection systems within the bund to alert in the event of a leak from the generator fuel tank or lubricating oil tank. The onboard controller for individual generators is connected to the Building Management System (BMS).

2.0 MONITORING OF EMISSIONS

No online monitoring is proposed for the stormwater discharge. The only bulk chemicals stored are hydrocarbons; adequate control measures are in place to monitor any potential leaks or spills of hydrocarbons at source.

It is proposed that weekly visual inspections for discolouration and odour are undertaken upstream of the stormwater discharge points (Monitoring Point SW1).

Due to the limited storage of bulk chemicals (diesel fuel only) on site, and the robust control measures outlined in this application above it is considered that not further monitoring or control methods are required for storm water.