

1. PURPOSE

To minimise the movement of fertiliser contaminants into the environment from inloading operations of Summit Fertilizers, CSBP and Macfertil Australia Pty Ltd at the Port of Esperance.

2. BACKGROUND/ OPERATION

Summit Fertilizers, CSBP and Macfertil Australia (the 'Receivers') import various fertilisers into Port of Esperance predominantly to supply grain growing operations in the region. Fertiliser is relatively dense and so bulk handling operations have negligible impacts on dust leaving the Port boundaries. However, recent operations have led to localised spillage of bulk fertiliser which has had impacts to both stormwater and groundwater quality at the Port of Esperance.

The fertiliser operations extend from berth 2 (refer to Figure 5) to the truck route within the Port (refer to Figure 4), and to the receivers stockpiles. The stockpiles of Summit are located within the Port boundary (refer to Figure 4), whilst CSBP and Macfertil Australia are located within the Esperance township.

The Receivers and their Stevedore are responsible for conducting operations in accordance of the requirements of this form. Pollution by the Receivers can detrimentally impact on Southern Ports – Esperance (SPE) operating Licence and under the Port Authorities Act 1999, SPE must "protect the environment of the Port and minimise the impact of port activities on that environment" (S. 30(f)). Therefore, SPE needs to develop and enforce compliance to the Fertiliser Unloading Procedure and this form.

3. RELATED RECORDS

- SPE Fertiliser Unloading Procedure (D15/1897)
- SPE Environmental Licence L9055/1974/1

Clean-up Checklist for Fertiliser Inloading

Prior, during and after operations, SPE, the Stevedore & the Receiver must complete the checklist for each ship unloading fertiliser.

Please note the following:

1. If there is unacceptable spillage remaining in the opinion of SPE, the Stevedore is required to contract the cleaning contractor for as long as required.
2. If the receiver is unable to participate in any of the required inspections, the opinion of SPE is final and SPE may audit any of the steps below;
3. Within business hours the Environment Team will represent SPE, out of business hours the Terminal Supervisor will nominate a representative;
4. Cost of storage and disposal of all excess washwaters generated during operations must be accepted by receiver.
5. Wash waters in Berth 2 rainwater tanks accumulated during the unloading operations must be managed by the stevedore and receiver
6. A minimum of 4 hours is allocated for fertiliser berth clean-up.

Vessel Name:		Loading dates:		Receiver:	
Pre Start-up Checks					
Task				Confirm Completion (initial)	Responsibility
East end of Berth 2: Cleaning Contractor to ensure Berth outlet valve for stormwater is shut (valve shown in closed position in Figure 1. If open close using a large adjustable spanner.					Stevedore and Environmental Services
East end of Berth 2: Vacuum dry landward rainwater tank and liaise with Environmental Team on reuse or disposal of water					
East end of Berth 2: Valves 1 and 2 in position to divert Berth 2 run-off to the empty wastewater tank (refer to Figure 2). If tank becomes full divert overflow by switching valves on landward tank as shown in Figure 3.					
All service lids in operating area are sealed watertight or covered with stormwater drain seals to prevent leaks					
Check condition of truck routes (Berth 2, and Hughes Road) for visible contamination shown in Figure 4					SPE and Receiver
During Operation Checks					
Task				Confirm Completion (initial)	Responsibility
Rainy weather? Sweep solids from Berth 2 and road access routes to minimise washing into stormwater system					Stevedore and receiver
The following checks been conducted to ensure no product is spilt from the contracted trucks exiting the berth? a. tail gates are sealed; b. wheel rims and other crevices in double bogies are air brushed to the berth; c. loose material on sides of tray are air brushed to the berth; d. any other contaminated surfaces are air brushed to the berth; e. a spotter is employed to ensure trucks are not overfilled; f. trucks are tarped before leaving the berth; g. any other required actions are taken to prevent spillage from the trucks; h. if trucks cannot comply with above, they should not be used.					Stevedore/Transport company
Has all spillage on the berth and the entry/exit gates been cleaned for one hour by the stevedore using a bobcat with a sweeper attachment (area bounded by yellow line in Figure 5) after loading activities have been completed during the shift change?					Stevedore
Post Vessel Unloading Checks					
Task				Confirm Completion (initial)	Responsibility
Stevedore or receiver's representative MUST BE PRESENT until clean-up is complete					Qube, Stevens Bulk and Environmental Services
Wet sweep of sealed roads from Berth 2 along Hughes Road to Smith Street junction (exit and entry routes shown in Figure 4) and clean-up visible spillage on unsealed areas					
Move fertiliser hoppers to designated cleaning areas seaward of Berth 2 centreline between 390-400m marks (Figures 6 and 7)					
Check all services lids are sealed with rubber gaskets in designated washdown area					
Remove lid from hydrant #290 (Figure 8) and use the hydrant hatch cover when connecting the hose for the hopper washdown (Figure 9). Washdown within designated area into bin of a truck with watertight tailgate. Drain washwaters into suck truck. Wet solids in truck returned to product owner for reuse or taken to Myrup Liquid Waste Facility.					
Clean Gensets that operate hopper hydraulics and the Spill Plates from the ship and any other equipment before they are put back into storage at appropriate location					
Clean excavator/bobcat before removal from Berth 2					
Flush and drain Berth 2 drainage system from berth scupper holes to fertiliser tank and transfer washwaters to the receiver.					
If another vessel (non fertiliser) is ready to be brought straight into B2 after the fertiliser vessel, Environmental Services to complete the down pipe flush when the berth eventually becomes vacant.					
Approval from SPE Enviro Team prior to fertiliser wash waters leaving Port to ensure controlled waste carrier used and receiving facility is licenced (unless receiver has exemption from DWER).					
As required by law, provide copy of controlled waste docket to the Environment Team					
Fertiliser solids swept from Berth 2 put in skip for collection by receiver within 24 hours					
Divert Berth 2 drainage back to landward (non-fertiliser) rainwater tank					
Return completed form to the SPE Port Terminal Supervisor or their representative					
Stevedore Signature		Environmental Services Signature		SPE Signature	



Figure 1 Berth outlet valve shown in closed position to divert water to tanks



Figure 2 Valves 1 and 2 in position to divert Berth 2 run-off to the empty wastewater tank

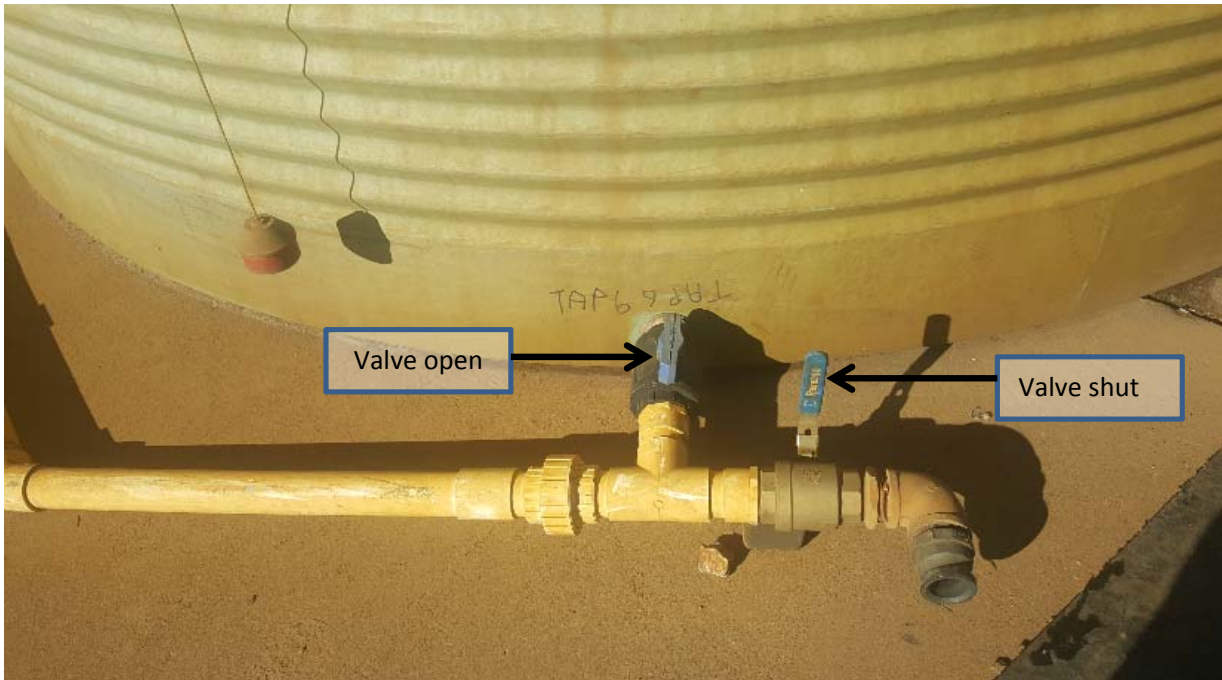


Figure 3 Valves in position on landward tank to accept overflow from wastewater tank

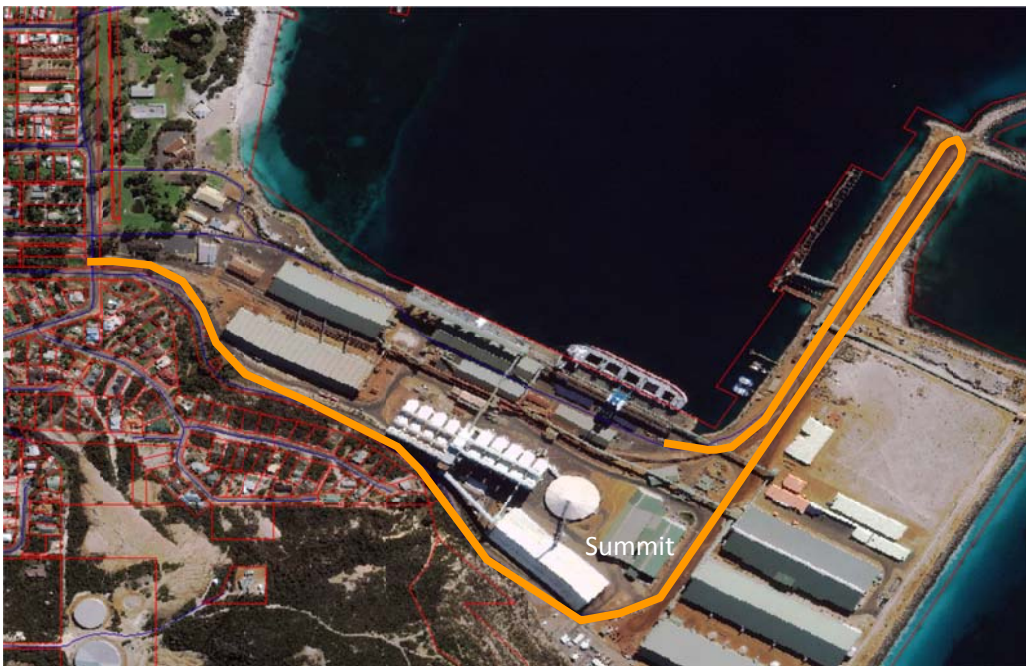


Figure 4. Route (orange line) to be swept by Stevedore commissioning a cleaning contractor on truck routes to and from Berth 2 using bobcat and sweeper attachment. Note: wet sweeping is only required on sealed roads at the end of the ship unloading. Unsealed areas require only clean-up of visible spillage. Additional sweeping maybe required at discretion of the Stevedore or the Terminal Supervisor.

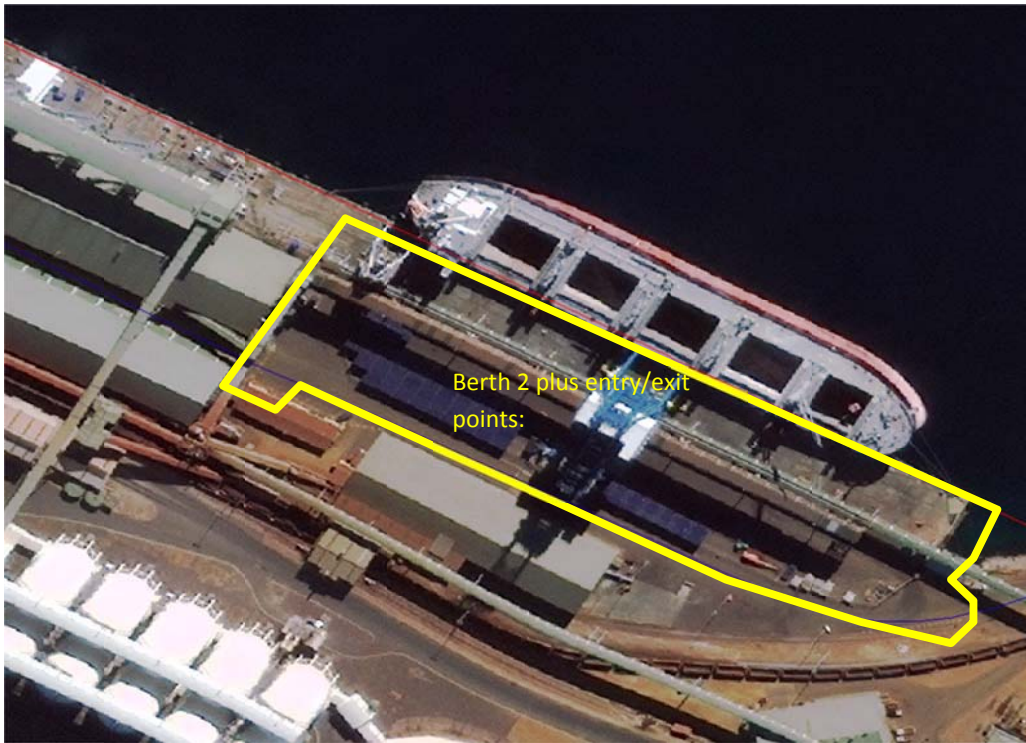


Figure 5. Area to be swept by Stevedore on Berth 2 using bobcat and sweeper attachment (indicated by yellow border). Note: The area is swept by the Stevedore with a bobcat & sweeper attachment after each days unloading and is finally wet swept by a cleaning contractor after the final days' unloading.



Figure 6. Alignment of hopper washdown between 390 to 400m mark on berth 2, landward of berth centreline. The area seaward of centreline should be kept clear to allow Environmental Services to sweep up any spills from the containment used to capture hopper washings. Ensure all services lids are sealed in this area.



Figure 7. Alignment of hopper washdown between 390 to 400m mark on berth 2, landward of berth centreline. The area shown should be kept clear to allow Environmental Services to sweep up any washings that escape the containment used to capture hopper washings.



Figure 8. Water hydrant 290 used for washdown

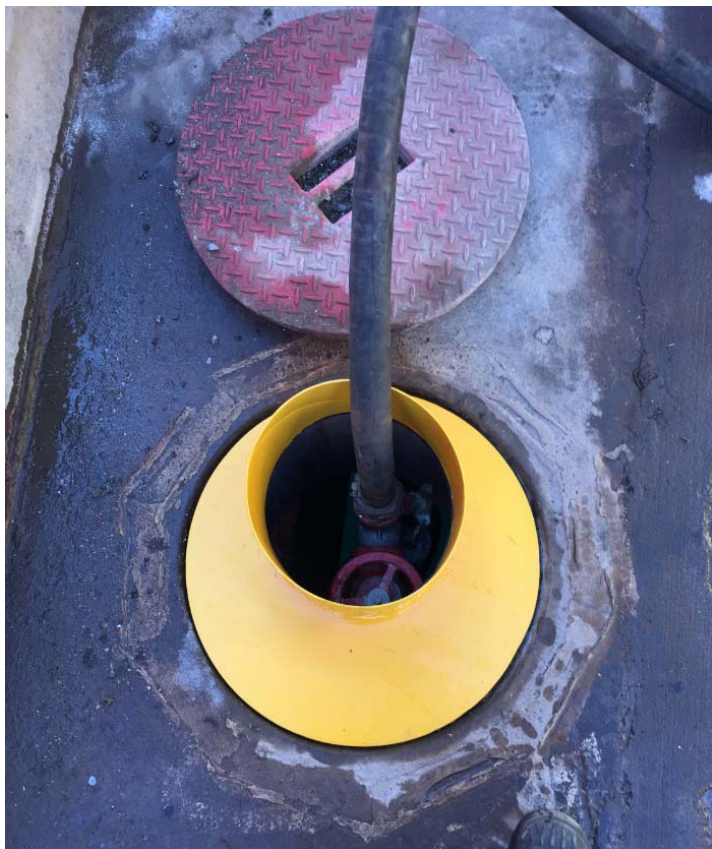


Figure 9. The modified hatch cover to minimise fertiliser washwaters entering ocean when using the hose.