



# Vehicle Washpad Design Guideline

## Environment

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## Authorisation

Version	Reason for Issue	Prepared	Checked	Authorised	Date
1.0	Migrated to ECMS, supersedes 950-HSE-EN-GUI-0001	T. Sprenkels	T. Sprenkels	M. Goggin	30/03/2020
2.0	Update & new template	K. Stanbury	T. Sprenkels	H. Nielssen	25/04/2021



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### 1 Purpose

The purpose of this document is to provide practical environmental advice and guidance at the design phase for any new vehicle washpad or wash down facility (or upgrade to existing washpad or wash down facility).

It outlines the minimum requirements to:

- Ensure washpad design and construction is conducted in accordance with the relevant environmental legislation and standards;
- Ensure environmental contamination is minimised;
- Ensure environmental harm is minimised.

### 2 Scope

This guideline applies to all Atlas controlled sites and their activities, employees, contractors and visitors and is subject to the requirements of the Atlas HSE Standards and applicable environmental legislation.

This guideline applies when designing new permanent or temporary washpad facilities, or upgrading existing facilities. Health and safety requirements are not addressed in this guideline.

### 3 Definitions

Table 1: Definitions table

Term	Definition
Bund	An impervious wall or embankment with an impervious floor that prevents the product(s) being stored polluting the environment. Earth by itself, without a lining, does not satisfy the impermeability criteria.
GDP	Ground Disturbance Permit
mg/L	Milligrams per litre.
Oily water separator	A treatment system that uses cyclonic / centrifugal forces or coalescing plates to physically separate oil from water.
TPH	Total Petroleum Hydrocarbons.

### 4 Responsibilities

Table 2: Responsibilities table

Role	Responsibilities
Project Engineer	Ensure the design criteria and requirements stipulated in this guideline are complied with for all new vehicle washpads and any upgrade to existing washpads, intended for operation at Atlas sites.
Senior Environmental Advisor	Provide environmental advice and input at the design stage for all new vehicle washpads and any upgrade to existing washpads, intended for operation at Atlas sites.



## 5 Design Criteria and Requirements

- A Ground Disturbance Permit Form (950-EN-FRM-0003) must be submitted and approved for the construction of the washpad facility (including any land clearing), prior to any works being undertaken.
- The facility must be situated away from natural drainage lines, creeks and water bodies.
- Clean water (including stormwater) must be diverted around the wash-down facility by way of diversion drains and/or bunds. This detail must be included in the GDP application.
- All water used at the facility must be contained within the facility (no run-off) with bunds and drainage to direct water to a settling pond / silt trap / sump.
- The washpad must fall towards the settling pond / silt trap / sump.
- The silt trap and associated sumps must be sized to the maximum expected inflow.
- The silt trap must be designed to maximise the deposition of suspended solids but allow contaminated water to flow through for treatment.
- The silt trap must be able to be cleaned out ('bogged out') manually or using equipment onsite (small loader, bobcat).
- A drying pad must be situated adjacent to the silt trap to allow wet material from the silt trap to drain and dry.
- Only 'quick-break' / biodegradable detergents are permitted to be used and must be stored within bunded area.
- A flow meter must be installed on the inflow and any outflow.
- Contaminated water must be suitably contained and not be released to the environment.
- An effective oily water separator must be installed and sized to the maximum expected inflow.
- All contaminated water must be treated by the oily water separator.
- Treated water must be sampled for TPH and retained / retreated if greater than 15mg/L.
- Treated water less than 15mg/L must be able to be re-used through the system, stored (in tanks / turkeys nest) for use in dust-suppression and/or diverted to a lined evaporation pond.

## 6 Internal Document References

Document Number	Document Title
950-EN-TEM-0001	Ground Disturbance Permit Template
950-EN-FRM-0003	Ground Disturbance Permit Application
950-EN-PRO-0008	Hydrocarbon Management Procedure
950-HS-STA-0017	Hazardous Substances and Dangerous Goods Standard
950-EN-PRO-0001	Bioremediation Management Procedure
950- EN-PRO-0015	Weed Hygiene Procedure