

# LV/MV/HV Automated Vehicle Washbays for the Mining Industry



## Contact Us

- 1800 092 210
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**WATER MANAGEMENT EXPERTS**

[washsystemsaustralia.com.au](http://washsystemsaustralia.com.au)

## Overview

Aqua Energy Group has developed a strategic alliance with Frutiger Company AG to offer a high-performance vehicle wash system to the Australian market. Frutiger Company AG has over 30 years' experience and more than 6000 successful installations in over 72 countries.

Continuous improvement of these systems provided the next step - the demucking system. A concept based on recoverability, washing performance, and individual customer needs. The demucking system is one of the most modern and high-quality vehicle and plant equipment washing systems in the world. It can be perfectly tailored to customer needs in terms of washing performance and water recycling.

The design of the wash unit and water recycling depends mainly on the vehicle type (external dimensions, tracks or wheels, contours), the number of vehicles to be cleaned, and the degree of soiling.

For companies that clean construction machinery every day, the demucking system will deliver an excellent return on investment.

Aqua Energy Group offer a turnkey solution to our customers, however, should they choose to complete a specific portion of works this can be accommodated as well. Our team of project managers, multi-disciplined engineers and site installation and commissioning technicians are here to support a mutually beneficial outcome.

## RETURN ON INVESTMENT



## Features

- Full under chassis wash
- Fresh water rinse
- Extended drip pad
- Remote operation
- Fully automated
- Recycle tank - conveyor clearance option
- Flocculant system
- Australian standard & mine compliant
- Designed to suit exact requirements from light to heavy vehicles



## Coal Mine Haul Trucks

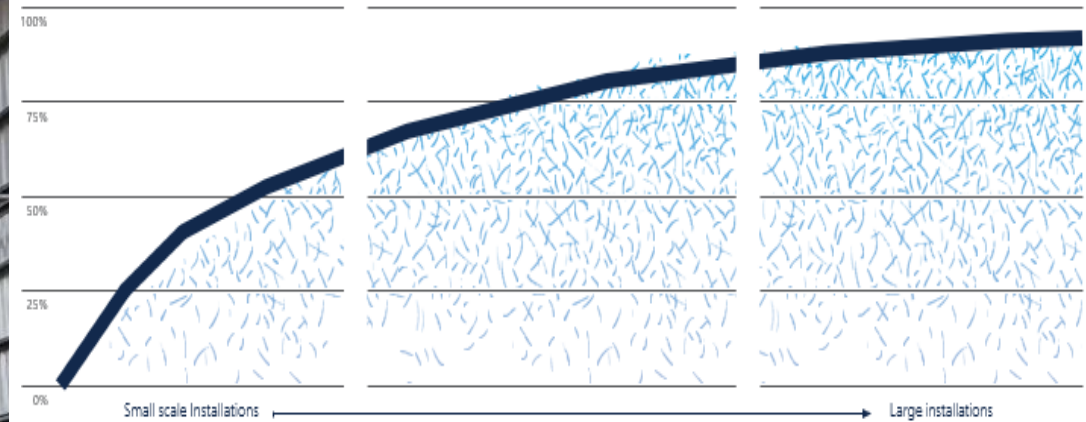
Aqua Energy Group has the capacity to design an automated vehicle wash bay specifically for your mine site. We can accommodate for a range of vehicle sizes and types. Water tank and recycling tank sizes can be modified depending on location and needs of the mine.

Haul trucks are catered for using our multi-disciplined engineering expertise to ensure a solution that is customised to the client's specific needs. Our systems can be added to an existing cannon cleaning facility or installed as a standalone system. The wash system uses low-pressure, high-volume flow with a closed loop recycling process.

A freshwater rinse arch can be installed to be used upon exit of the wash bay. This will remove any existing debris, which may be useful for coal mine sites. The rinse arch will be part of the automated wash system and can be activated via a sensor or by using a timed wash. If a sensor is used, it will deactivate the main wash bay pumps before beginning the rinse cycle.

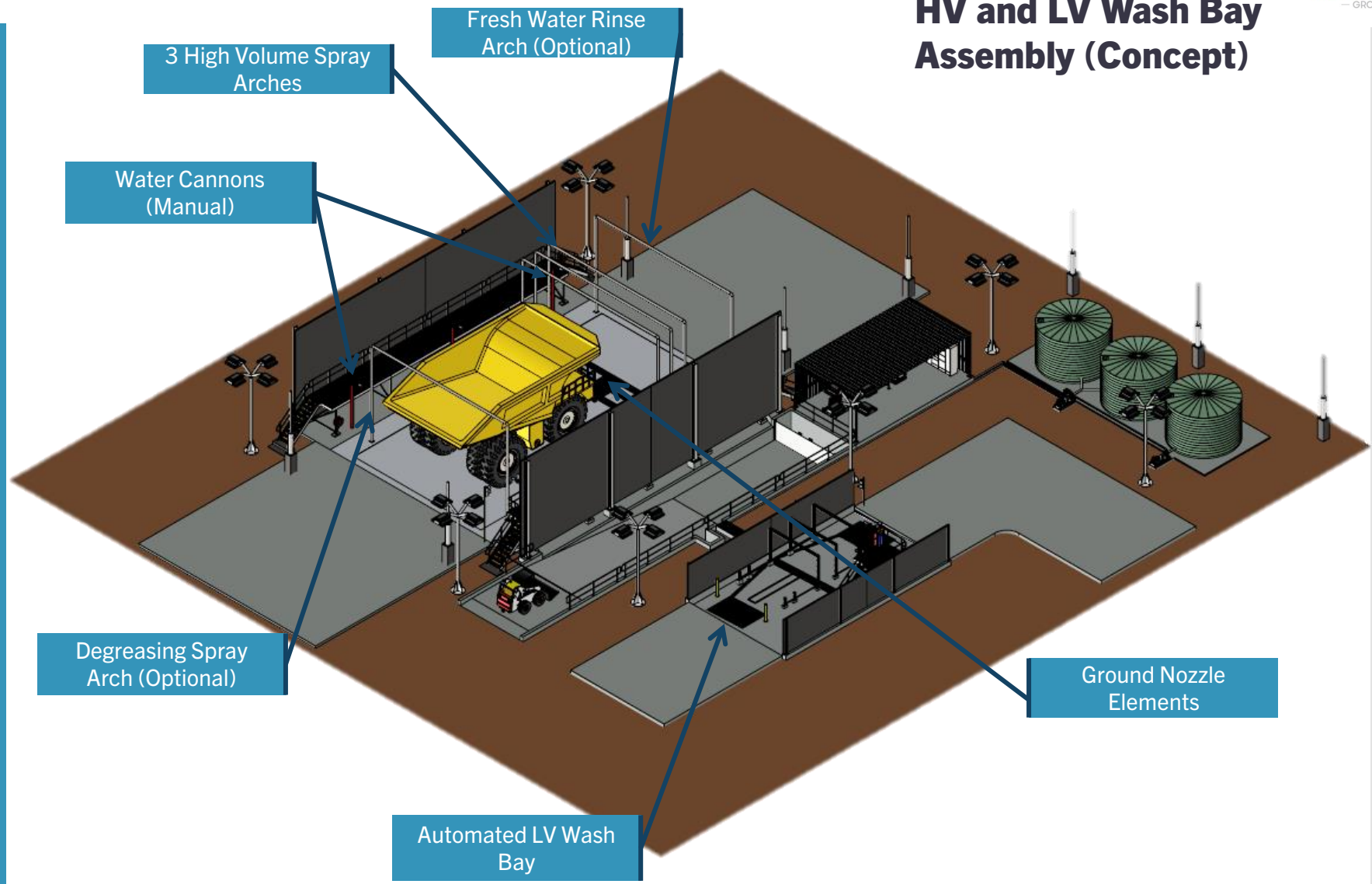


### Cleaning Efficiency

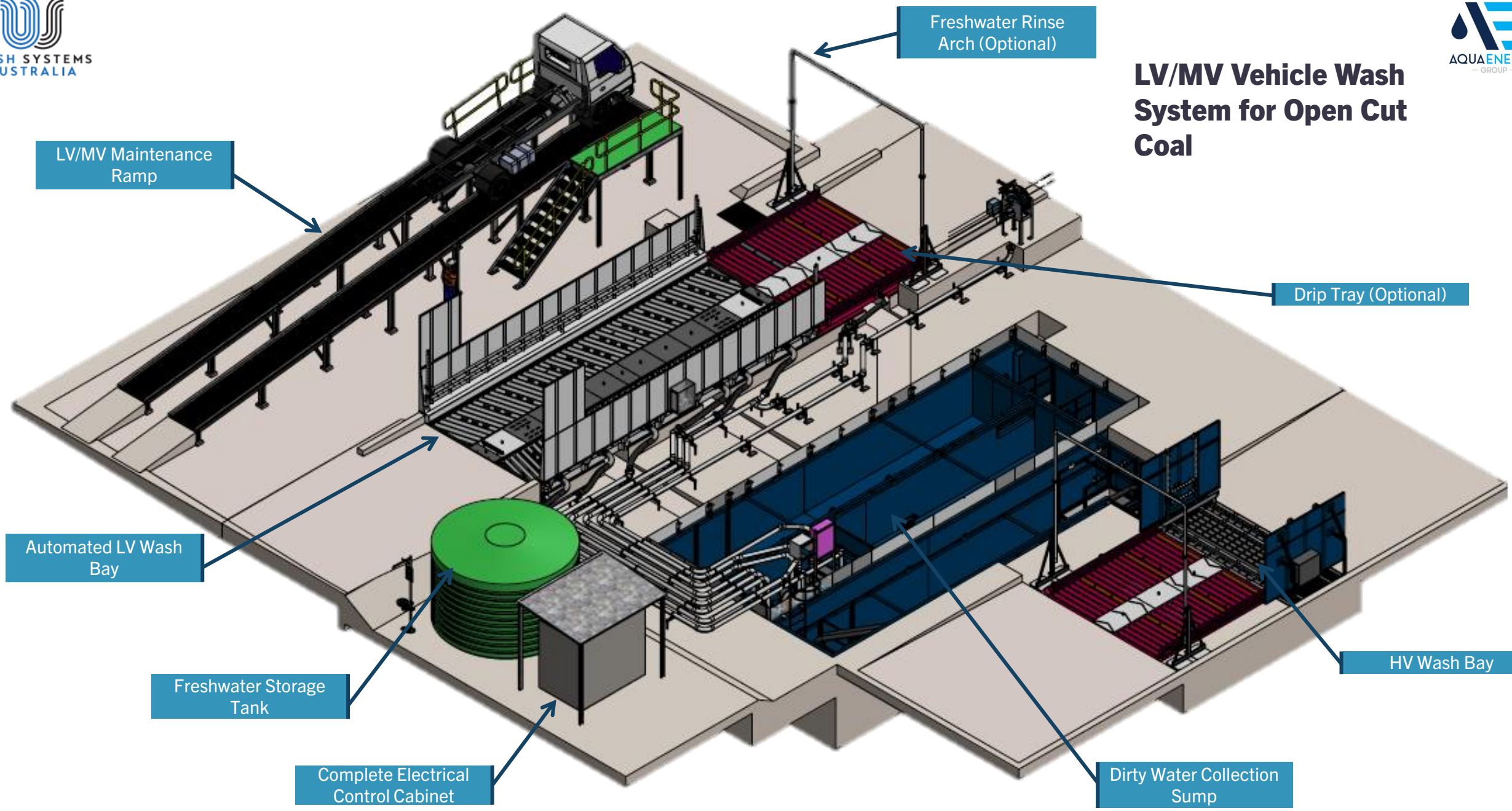


# Concept Drawings

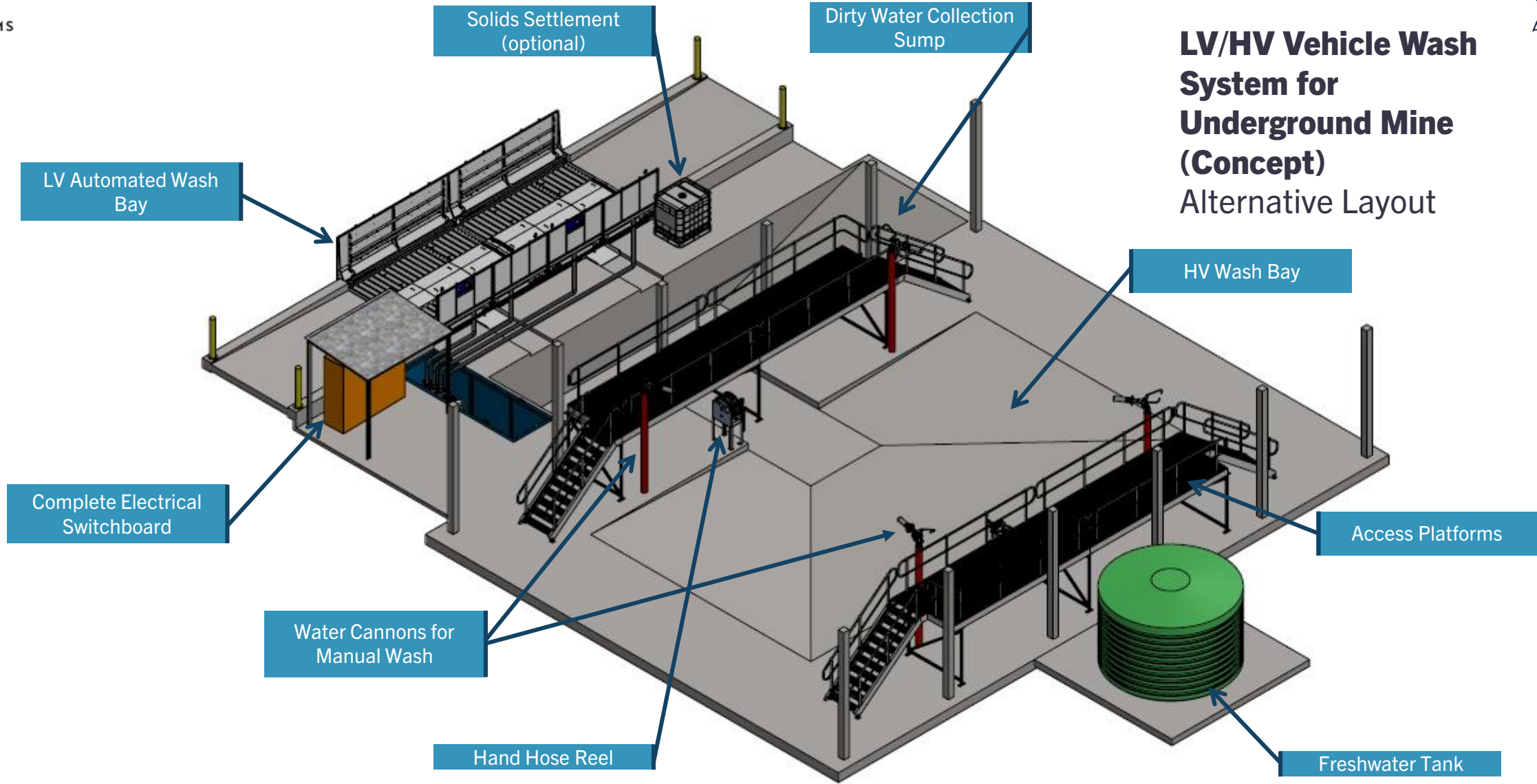
## HV and LV Wash Bay Assembly (Concept)



# LV/MV Vehicle Wash System for Open Cut Coal

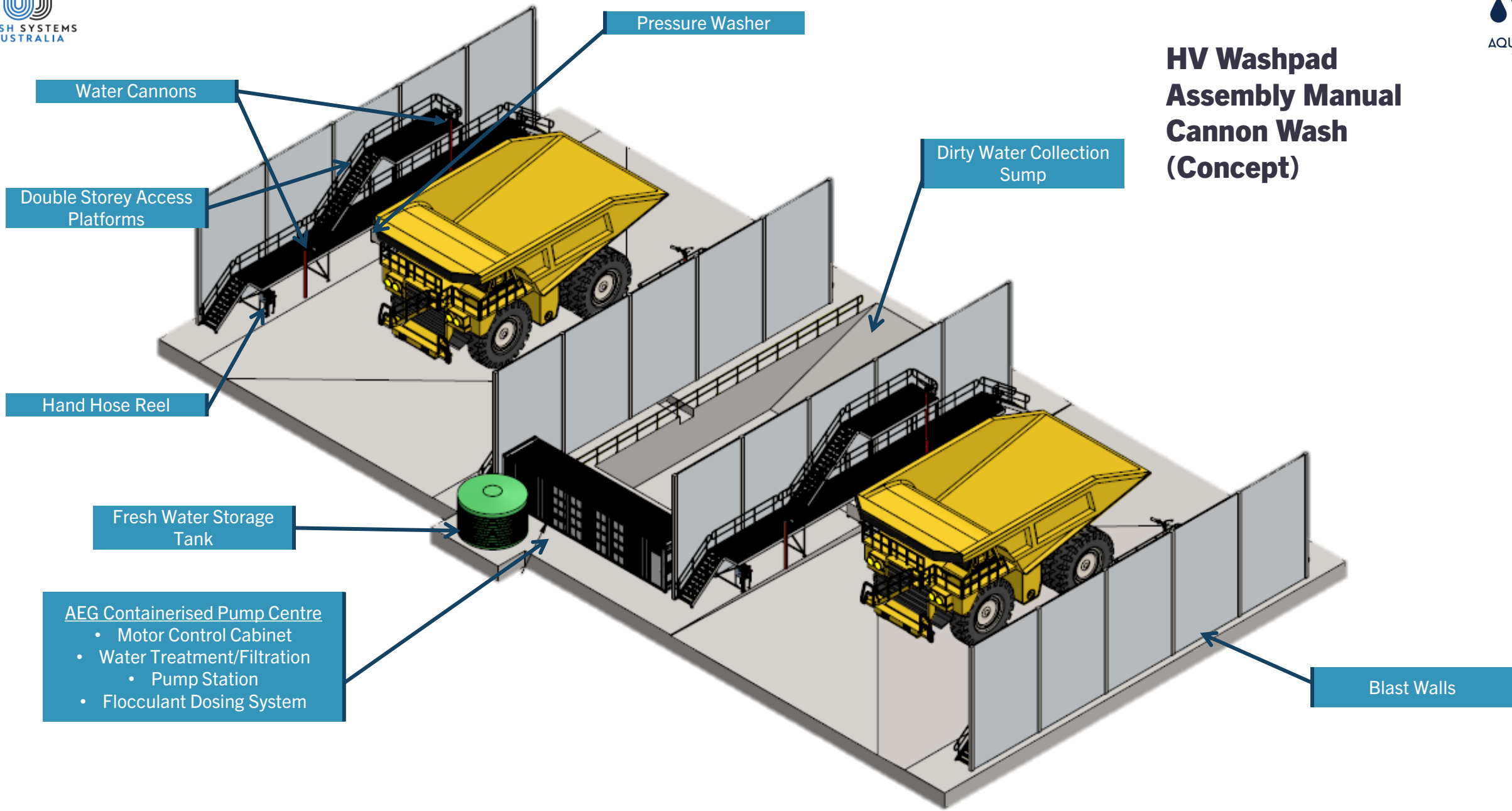


# LV/HV Vehicle Wash System for Underground Mine (Concept) Alternative Layout



ISOMETRIC  
(HV WALL PANELS HIDDEN FOR CLARITY)

# HV Washpad Assembly Manual Cannon Wash (Concept)



## Maintenance and Repairs

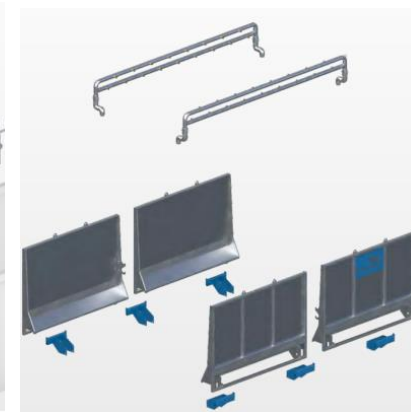
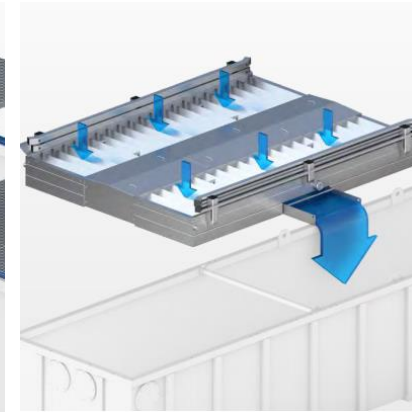
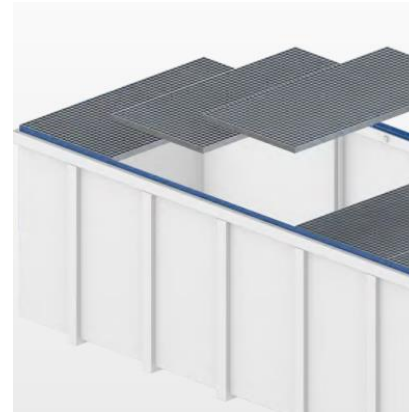
Once installed, Aqua Energy Group provides regular maintenance on your wash system. We also provide spare parts that are designed specifically for the Mobydick Wash Bays.



## Optional Extras for your Wash System

Aqua Energy Group can modify your wash system by installing extra equipment. Our range of extras include:

- Drip tray
- Fresh water rinse arch
- Side-wall displacement
- Extra water tanks
- Grid cover for sump
- Oil separator
- Heating elements for pipeline and tank cover
- Fresh water portal
- Heavy duty bollards
- Second sensor
- Hot-dip galvanized side walls





## Upgrades to Existing Wash Bays

Aqua Energy Group can remove or repair old wash bays and install a more modern system. Existing tanks, slabs and sumps can be modified to improve water recycling and improve wash system results. We can also provide temporary wash systems for the duration of repairs/installation.



## Temporary Wash Systems

Temporary wash systems can be useful for:

- Increase in vehicles on site
- Determining whether a wash system is beneficial for your mine site
- Sharing between multiple mine sites
- Short term projects

AEG has a modular mobile system that can be implemented quickly & easily, and then packed away for your next project.



# Each system is designed with the site knowledge of:

- The number of vehicles / plant to be cleaned per shift.
- What are the expected site conditions and degree of soiling.
- Dimensions and loadings of the largest vehicle / plant to be cleaned.
- Site area availability.
- How automated/manual you require the system to be.

AEG provide an obligation free proposal and concept design once site inspection has been conducted.

## Find Us

**NSW Office:** 21 Kalinya Close, Cameron Park, NSW 2285

**QLD Office:** 16 Silverton Court, Paget QLD, 4740

**WA Office:** 58 Catalano Circuit, Canning Vale WA 6155

## Contact

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