

# Ecosol™ Soakwell Litter Trap Maintenance Guide



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for a better future

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The Ecosol™ Soakwell Litter Trap has been designed specifically for easy, safe on site cleaning and maintenance using a licensed waste contractor equipped with a vacuum truck.



## 1.0 Introduction

The unit can be custom-built to suit most diameter soakwells and is easily retrofitted. It is designed to capture and retain all pollutants conveyed in stormwater run-off larger than 3mm in diameter. The robust design of the stainless-steel filtration basket increases the life of the infiltration layer by preventing larger gross litter and vegetation from blinding the porous base of the soakwell.

## 2.0 Key Dimensions

The Ecosol™ Soakwell Litter Trap is able to be custom designed to suit most stormwater systems. The below table provides a general guide on typical unit configurations.

Soakwell Diameter	Suits pipe sizes up to	Soakwell depth below inlet pipe invert level	Minimum litter trap depth below pipe invert level
mm	mm	mm	mm
600	150	600	300
900	150	600	300
	150	900	600
	150	1200	600
1070	225	600	300
	225	1200	600
1200	300	600	300
	300	900	600
	375	1200	600
	375	1500	750
1500	450	600	300
	450	1200	600
	450	1500	750
1800	525	600	300
	525	900	600
	600	1200	600
	600	1500	750
	600	1800	750
	600	2400	750

### 3.0 Catchment Size and Recommended Cleaning Frequency

The Ecosol™ Soakwell Litter Trap should be cleaned regularly. The cleaning frequency and the cost depend heavily on the surrounding environment, the unit's proximity to a waste facility, the number of rain events, catchment type and size. The figures in the table below give a broad guideline about the optimal catchment size and the number of cleans required annually based on typical expected pollutant loads.

Ecosol Soakwell Litter Trap diameters	Indicative Inlet Pipe Diameter	Soakwell Litter Trap Depth	Indicative Maximum Gross Pollutants Holding Capacities	Optimal Catchment Area	Recommended Cleaning Frequency
	mm	mm	m <sup>3</sup>	Ha	Per Annum
600mm	150	300	0.339	1.20	1
900mm	150	600	0.381	1.30	1
1070mm	225	600	0.539	1.80	1
1200mm	375	750	0.848	2.90	1
1500mm	450	750	1.320	4.70	1
1800mm	600	750	1.900	6.90	1

Cleaning frequencies are based on typical pollution loads of 0.280m<sup>3</sup>/ha/year for gross pollutants generated on a typical fully developed urban catchment. For larger catchments increased cleaning frequencies may be required.

### 4.0 Monitoring

Under normal weather and operating conditions, your Ecosol™ Soakwell Litter Trap requires cleaning approximately every 12 months. However, it is important to monitor regularly the amount of material retained in the litter basket. The inspection form at the back of this document can be used to record the approximate quantity of captured material together with other information about the unit's condition and the need for scheduling cleans and maintenance work.



Initially, Urban Asset Solutions Pty Ltd recommends that monitoring is undertaken monthly. Once the unit has been in operation for an extended period of time (say, 12 months) the monitoring schedule can be adjusted to reflect the actual operating conditions specific to the catchment. It is also recommended that the unit is inspected after every major storm event.

## 5.0 Cleaning and Maintenance Procedures

### Prior to cleaning day

It is important that, prior to commencing a clean, you confirm all plant and equipment is available and operational with service records and pre-start checklists available. It is also recommended that weather conditions for the day of the proposed clean be confirmed as the clean can only be completed in dry weather conditions. Ensure that you:

- Advise all concerned parties of the proposed date and time that the clean is to take place
- Load all equipment
- Obtain approvals from the appropriate authorities
- Complete a safe work method statement for the work to be undertaken

### Site establishment

- Complete and sign off all relevant Safe Work Method Statements
- Ensure that all access points are exposed and accessible
- Ensure barricades are provided at all working areas and that signs are in place to prevent injuries to public or staff
- Ensure all working areas are safe and all equipment, including hoses and machinery, are in place and ready for operation



### Removal of Pollutants

- Open surface access lids
- Lower the eductor truck vacuum hose into the central litter basket and position over retained debris
- Commence removal of captured materials, by moving the vacuum hose over the material
- Once all visible debris has been removed stop the vacuum truck and raise the vacuum hose



## 5.0 Cleaning and Maintenance Procedures continued

### Site demobilisation



- Complete the cleaning report accordingly
- Using long handle access cover lifters, lift all access covers back into position
- Using an 8mm Allen key reinstall all access cover lock down bolts
- Reinstall all bolt protective caps
- Note it is recommended that all access covers, frames and bolts should be greased at least once per annum
- The vacuum/eductor truck must be packed up and leave site to dispose of all captured pollutants at an approved waste facility
- The transporter to be used for the transportation of the stormwater silt must be licensed with the EPA
- Load all other plant equipment and tools ensuring the site is restored to its original condition

## 6.0 Monitoring, Cleaning and Maintenance Services

Urban Asset Solutions Pty Ltd has a very competitive cleaning service. After each clean we provide a report detailing the volume and type of pollutants removed. We believe that it is in your best interests for Urban Asset Solutions Pty Ltd staff to clean and maintain the unit, not only because we are specialists, but also because proper monitoring and maintenance enhances the unit life significantly.

Should you use another company to clean the unit, or undertake this work yourself, we request that it be conducted according to Urban Asset Solutions Pty Ltd maintenance guidelines. Otherwise, you may invalidate your warranty, as damage caused by inappropriate cleaning procedures is not covered. The advantages of using Urban Asset Solutions Pty Ltd to clean and maintain your unit are that you get:

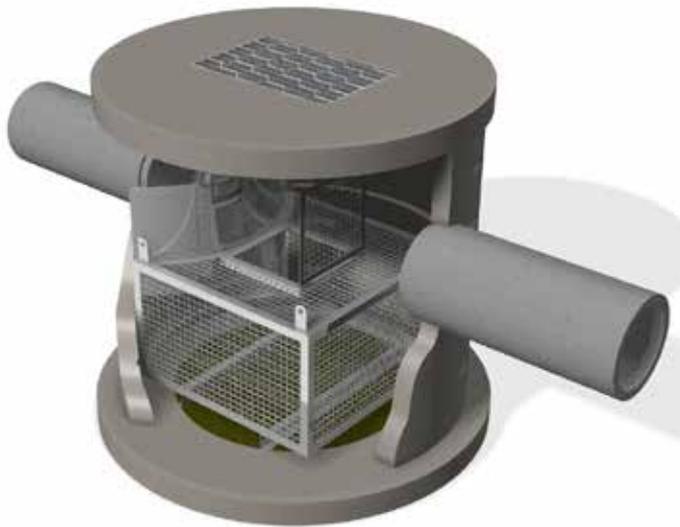
- regular inspections of your unit
- a comprehensive cleaning service with removal and disposal of all captured pollutants;
- a detailed report provided on completion of each clean; and
- trained and experienced staff
- remedial work completed promptly, if required



## 7.0 Reporting

After each clean it is important that all cleaning data is recorded for use in ongoing asset management activities. A cleaning report should be prepared that confirms as a minimum the following information:

- Site location
- Date and time of the clean
- Duration of the clean
- Volume or weight of material removed
- Composition of the captured material e.g. sediment, vegetation, litter
- Details of any remedial work undertaken or required at a later stage



## 8.0 Warranty

All Ecosol™ Soakwell Litter Traps are covered by a twelve-month warranty provided the unit is maintained and cleaned with the frequency, and using the method, recommended in this guide.

## 9.0 Life Expectancy

All Ecosol™ Soakwell Litter Traps are designed to meet strict engineering guidelines and manufacturers guarantees. The pre-cast concrete pit has a life expectancy of 50 years, providing appropriate maintenance practices are employed.

## 10.0 Supplier and Technical Product Contact Details

For any maintenance or technical product enquiries please contact:  
Urban Asset Solutions Pty Ltd  
Tel: 1300 706 624  
Fax: 1300 706 634  
Email: [info@urbanassetsolutions.com.au](mailto:info@urbanassetsolutions.com.au)

## 11.0 Ecosol™ Soakwell Litter Trap Cleaning and Maintenance Inspection Form

Asset Owner:		Asset ID:	
Unit Location :		Ecosol Ref:	
Date:	Time:	Product Code: Ecosol™ Soakwell Litter Trap	
Inspected By:			

### Visual Inspection

Item	Good	Fair	Damaged	Remarks
Condition of Litter Basket				
Litter Basket % of fill				
Condition of Soakwell Sump pit				
Surrounding surfaces (Hardstands)				
Condition of Trap Doors				
Condition of Access Covers				
Standing Water Level				

Comments :

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