

## **Engineering Information Sheet**

(ES1)

### **Stormwater Management for Residential Properties**

As outlined in the Local Government Act it is the landowner's responsibility to confine all stormwater runoff from buildings or hard stand (impervious) areas within your property boundary.

When designing the stormwater management for your property you also need to consider the natural flow of stormwater across your land to ensure these flows will not impact on building structures.

#### **For properties that are located on sandy free draining soils (e.g. Australind / Binningup / Myalup) and/or properties greater than 1000m<sup>2</sup>**

You are required to contain all stormwater on site. The required amount of storage to be provided is 1m<sup>3</sup> per 65m<sup>2</sup> of impervious area (e.g. roof and paved areas). This storage can be achieved by many different methods including; soakwells, rainwater tanks that have stormwater storage availability, rain gardens and rainwater detention systems that are plumbed into the house (e.g. laundry / toilet)

As a guide soakwells are to be located a minimum of 1.5m away from buildings and from rear or side boundaries (owner's responsibility to located appropriately).

Please note that during large rain events this storage capacity may be exceeded, thus when designing your stormwater management system you need to consider having safe overland flood routes away from buildings and adjoining properties.

The Shire also recommends that your gutter and downpipes have an overflow relief in the event of a blockage in the stormwater system. This can be achieved by not having the downpipe directly connected to the below ground stormwater pipes. (Refer picture)



**Typical Soakwell**

**Overflow Relief**

**Rain Garden**

#### **For properties in clay or unsuitable ground conditions (i.e. Harvey or Brunswick)**

You are permitted to discharge your stormwater into the Shire of Harvey drainage network (if available) subject to you providing stormwater detention of 1m<sup>3</sup> of storage per 100m<sup>2</sup> of impervious area.

The detention facilities are required so that temporary storage of runoff is allowed for in your property, and so that your stormwater is discharged into the Shire drainage network at a rate that can be accommodated by the system.

The last storage pit that your stormwater passes through before it enters the Shire of Harvey's drainage network is to have a minimum 150mm deep silt trap (refer typical detail).

Overflow relief should be provided in the event of a blockage in the stormwater system. This can be achieved by not having the downpipe directly connected to the below ground stormwater pipes (Refer picture).

In most newly developed subdivisions where the Shire will permit discharge into our stormwater system, typically a house drainage connection point will have been provided within your property boundary. The owner/builder can complete all requirements including connection as outlined above and the Shire will inspect at the building completion inspection.

If no connection point has been provided connection can be made to the Shire of Harvey's drainage network (if available) by paying the Shire to make the connection or by engaging a licensed plumber to do the works. Prior to these works commencing the attached application form needs to be completed and the required fee amount paid to the Shire. Once approval has been received from the Shire your works can proceed as per the requirements on the application form and standard detail sheet.

If an alternate stormwater management system is proposed, the owner will be required to submit detail plans for written approval from the Shire prior to construction commencing.

For any further Information please contact the Shire on 9729 0360 or via email [shire@harvey.wa.gov.au](mailto:shire@harvey.wa.gov.au)

**NOTE:**

DRAINAGE CONNECTION  
MAY BE AT SIDE OR REAR  
BOUNDARY IN SOME AREAS

PROPERTY BOUNDARY

PROPERTY BOUNDARY

RAINWATER  
DOWNPIPES

EXISTING  
RESIDENCE

(IF NOT ALREADY PROVIDED)  
600mm Dia MIN  
SILT TRAP LOCATED  
WITHIN PROPERTY  
TO BE INSTALLED PRIOR  
TO SHIRE CONNECTION  
TO STORMWATER MAIN  
(SEE DETAIL SUMP)

90mm Dia P.V.C.  
INTERNAL PIPING  
OR SIMILAR

STORMWATER DETENTION PITS  
SIZED TO MEET REQUIREMENTS

IF REQUIRED, STORMWATER CONNECTION  
ACROSS VERGE BY SHIRE OR LICENSED  
PLUMBER ONCE APPROVAL GRANTED.  
SHIRE TO INSPECT PLUMBER CONNECTION  
PRIOR TO BACKFILL. YOUR LICENSED PLUMBER  
IS RESPONSIBLE FOR THE LOCATION AND PROTECTION  
OF EXISTING SERVICES IF WORKING IN THE VERGE.

SHIRE OF HARVEY STORMWATER MAIN

FENCELINE ON PROPERTY  
BOUNDARY (IF APPLICABLE)

CONCRETE LID ON SUMP  
THICKNESS AS REQUIRED

NATURAL SURFACE LEVEL

90mm Dia P.V.C. PIPE  
OR SIMILAR

MINIMUM 600mm x 600mm  
CONCRETE SUMP TO BE  
LOCATED ENTIRELY ON LOT

SILT TRAP

150 mm (Min)

OUTLET PIPE INTO COUNCIL  
STORMWATER SYSTEM TO  
BE INSTALLED BY SHIRE AT  
OWNERS COST.

CONCRETE FOOTING  
TO SUIT

**DETAIL SUMP**



**SHIRE OF HARVEY**

P.O. BOX 500  
HARVEY, 6220  
TELEPHONE (08) 9729 0300  
FACSIMILE (08) 9729 2053

**STANDARD DETAIL FOR THE  
CONNECTION OF STORMWATER  
INTO SHIRE DRAINAGE NETWORK**

DESIGNED:

DATUM: ASSUMED

DRAWING No: 00-124

HOR. SCALE : N/A

DRN: L.R.F

DATE : 8/9/2000

REVISION No: N/A

VERT. SCALE N/A

REVISED: D.M

DATE : 12/5/2011

GEOCOMP JOB No:



**Shire of Harvey**  
P.O. Box 500  
102 Uduc Rd  
HARVEY W.A. 6220  
Phone: (08) 9729 0300  
Fax: (08) 9729 2053

# APPLICATION FORM

## APPLICATION TO INSTALL STORMWATER PROPERTY CONNECTION

### OFFICE USE ONLY

RECEIVED BY

DATE

### \*\*\* THIS FORM IS TO BE COMPLETED BY THE APPLICANT \*\*\*

The following information is provided with this form for your information:

- ./ Copy of Engineering Information Sheet (ES1);
- ./ Copy of standard drawing (typical drawing for information only).

**APPLICANTS ARE URGED TO FAMILIARISE THEMSELVES WITH THE REQUIREMENTS FOR STORMWATER PROPERTY CONNECTIONS PRIOR TO SUBMITTING THIS APPLICATION FORM. APPLICATION FEE TO BE PAID \$50.**

#### DETAILS OF APPLICANT

NAME OF APPLICANT

ADDRESS

TELEPHONE

FAX

EMAIL

#### DETAILS OF PROPERTY

NAME OF OWNER

LOT NUMBER

STREET NUMBER

STREET

LOCALITY

#### SKETCH SHOWING PROPOSAL

After submitting this form to Council, a staff member will contact you to discuss the two options available:

- For Council to provide a Quote for it to complete the Works; or
- For you to appoint a licensed plumber to complete the Works.

#### DECLARATION

I hereby apply to connect to the Shire of Harvey stormwater system and agree to comply with the conditions of this approval and the requirements as outlined in Council's Engineering Sheet ES1.

NAME OF APPLICANT

SIGNATURE OF APPLICANT

DATE