



SURFACE WATER MANAGEMENT PLAN

- This drawing details the temporary measures to be installed at the site to protect the existing watercourses and surrounding areas from any unward or contaminated surface water runoff generated from the site during the construction phase of the development.
- The site generally falls in an easterly direction towards the old wooded railway embankment.
- Earth bunds approximately 0.5m high with 1 in 3m side slopes and a flat top of 0.30m wide will be formed along the eastern boundary of the residential site to stop any overland flow of water running onto the neighboring land Road and also to channel surface water towards purposely built sumps and detention basins along the earth bund.
- The purposely built sumps and detention basins, approximately 0.5m minimum deep and is located in the lowest parts of the site and will be constructed:
 - To catch and store any sediment
 - To allow infiltration into the prevailing ground
 - To hold a volume of surface water
 - To allow a controlled outfall into the watercourse.
- As there are no positive outfalls available for the sumps in the residential areas daily monitoring of the water levels will be undertaken and be removed from site in a controlled way when the water level reaches the top of the sump level.
- The protection measures will be installed prior to any major topsoil strip on site and will be maintained during the construction phase of the development.

Operation and Maintenance Plan

The protection measures should be inspected on a daily basis during the construction phase and especially during or following heavy rainfall and follow the maintenance plans below.

| EARTH BUND | | |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Maintenance | Action | Frequency |
| | Inspect for damage | Daily |
| Remedial Work | Remove sediment, debris, or other blockage at base of bund to allow free flowing overlands flow. Repair areas of damage or deterioration | Monthly or as required |

| DETENTION BASIN / SUMP | | |
|------------------------|-------------------------------------------------------------------------------------------------------|------------------------|
| Maintenance | Action | Frequency |
| | Inspect for damage, sediment build up or high water levels | Daily |
| Remedial Work | Remove sediment and debris and dispose in controlled and approved manner. Repair side slopes and base | Monthly or as required |

KEY

- Approximate Site Boundary
- Temporary Earth Bund
- Sumps to be provided at natural low point of site and along temporary earth bund

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| Project: Residential Development off Wentworth Drive, Emley | | | |
| Drawing: Temporary Surface Water Management Plan | | | |
| Drawn By: SSB | Date: 04/07/2023 | | |
| Checked: - | Scale: 1:250 | A1 | |
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