| Ĭ | 20000 20000 20000 20000 20000 | Ĭ | mhn | | | 8 | | | | Ī |
|-----------------------------------|---|--------------|-------------------------|-------------------------|-------------------------------------|--------------------|--|----------------------------|-------------------------|--------|
| LOW LEVEL WATERCOURSE CROSSING | ENERGY DISSIPATER (SD 5-8) | PIPE CULVERT | LEVEL SPREADER (SD 5-6) | ACCESS ROAD TABLE DRAIN | STABILISED SITE ACCESS (SD 6-14) | CHECK DAM (SD 5-4) | DIVERSION DRAINS (SD 5-6) STOCKPILES (SD 4-1) | STRAW BALE FILTER (SD 6-7) | SEDIMENT FENCE (SD 6-8) | LEGEND |

| TABLE 1 MA LANDS Materways and other areas subjected to concentrated flow (e.g. fable drains), post construction and during | HAXMUN ACCEPTABLE C-FACTORS AT NOMINATED THES DURING WORKS HAXMUN ACCEPTABLE C-FACTORS AT NOMINATED THES DURING WORKS C-FACTOR REMARKS 0.05 Applies after ten working days from complet and before they are allowed to carry any con flows Flows will be indeed to be shown in Landcom (2004). Foot and vehicular traffic w | FACTORS AT NOMINAT Applies after ten w and before they are flows. Flows will be Landcom (2004). Foo |
|--|---|--|
| Waterways and other areas subjected to concentrated flows (e.g. table drains), post construction and during operation | 0.05 | Applies after ten vorking days from completion of formation and before they are allowed to carry any concentrated flows. Flows will be limited to those shown in Table 5.2 of Landcom (2004). Foot and vehicular traffic will be prohibited in these areas |
| Stockpiles and batters, post construction and during operation | 0.10 | Applies after ten working days from completion of formation. Maximum C-factor of 0.10 equals 60% ground cover |
| All lands, including waterways and stockpiles after construction | 0.15 | Applies after 20 working days of inactivity, even though works might continue later. Maximum C-factor of 0.15 equals 50% ground cover |
| All lands, including waterways and stockpiles during construction and operation | 0.05 | Applies after 60 working days of inactivity, even though works might continue later. Maximum C-factor of 0.05 equals 70% ground cover |
| | TABLE 2 LIMITA | TABLE 2 LIMITATIONS TO ACCESS DURING CONSTRUCTION |
| land use | LIMITATION | REMARKS |
| Construction areas Limite | Limited to 5 (preferably 2) | All site workers should clearly recognise these areas that, where |

| LAND USE | LIMITATION | REMARKS |
|---|---|--|
| Construction areas | Limited to 5 (preferably 2) metres from the edge of any essential construction activity as shown on the engineering plans | All site workers should clearly recognise these areas that, when appropriate, are identified with barrier fencing (upslope) and sediment fencing (downslope) or similar materials. |
| Access areas | Linited to a maximum width of 5 metres | The site manager will determine and mark the location of these zones on site. They can vary in position so as to best conserve existing vegetation and protect downstream areas white being considerate of the needs of efficient works activities. All site workers will clearly recognise these boundaries |
| Remaining lands, including revegetation areas | Entry prohibited except for essential management works | Thinning of growth might be necessary, for example, for fire reduction or weed removal |
| | | |

CENERAL NOTES This plan is to be read in conjunction with the accompanying Water Cycle Management Plan report by SEEC Morse McVey (Reference 09000242-R-01). Standard drawings (SD) are shown on 0900242-SMMP02.

- W AND SEDMENT CONTROL FOR THE ACCESS ROAD CONSTRUCTION PHASE affore commercement of earthworks, the site is to be secured and the following erosion and sediment control measures installed in profer except for litem is, which is to be undertaken regularly likefor to the Monitoring and Maintenance notes). Stabilish a stabilised site access (Standard Drawing SD 6-14) in the locations shown (Drawing 0900242-SWHPO1) and anywhere here construction vehicles enter a works area from a bitumen road. Stabilish sediment fencing in the locations shown (Drawing 0900242-SWHPO1) and following Standard Drawing SD 6-8 (Refer to the Stabilish sediment fencing in the locations shown (Drawing 0900242-SWHPO1) and following Standard Drawing SD 6-8 (Refer to the

BARRER FICKING
Install barrier fences in the locations shown on Drawing 090002x2-SWMP01.
Barrier fencing can simply be made from tape vound around star pickets or stakes. Alternatively, sediment fence or chain wire fences can be used for this purpose if so desired.
Barrier fancing is to be used to ensure that all vehicles entering and leaving the site pass over a stable access point to mininsie obgoingers in these areas and mininais sediment fracting onto public roads.
Barrier fancing is to be used at the discretion of the areas adjacent to the creek and dams as 'no go' zones.
Barrier fancing is to be used at the discretion of the site manager to delineate other 'no go' areas.
The soil evision hazard on the site will be kept as low as practicable by mininsing land disturbance. Some ways of doing this are outlined in Table 2.

- Establish sediment fencin Sediment Fencing notes). Establish barrier fencing Barrier Fencing notes). Construct table drains/di Install check dams in t fencing in the locations shown (Drawing 09000242-SWMP01) to delineate the edge of the works area (Refer to the
 DUST SUPPRESSION

 • The access roads will require dust suppression.

 • The water for dust suppression may be sourced from the existing dams or from tanker.

 • The application rate for inthe access road is estimated at 2mm per non-rainy day, however application rates will be dependent on veather, temperature, vehicle movements and surface infiltration rates.
- onstruct table drains/diversion drains in the locations shown (Drawing 09000242-SWMP01) and engineering drawings. Istall check dams in the table drains at maximum 80m intervals as per Standard Drawing SD 5-4. (Refer to Drawing 900242-SWMP01 for locations).
- drains and
- Stabilse table drains an Install straw bales or s Construct energy dissip rs and batters using kikuyu grass or equivalent (Refer to the Stabilisation notes). or sediment fences at the inder points or all culvert/pipes. Issipaters at the outles of all road culverts in accordance with Standard Drawing SD 5-8. we measures are complete and stable, construction works for the access road can commence in accordance with

 STABLISATION

 Diversion drains and table drains are to be stabilised as indicated in Table 1.

 Stockpice are to be stabilised as per the requirements of Table 1 and as shown in Standard Drawing SD 4-1.

 Stockpice are to be stabilised in accordance with Table 1 and energy dissipaters are to be provided as per Standard Drawing SD 2.4.

 Culvert outlets are to be stabilised in accordance with Table 1 and energy dissipaters are to be provided as per Standard Drawing SD 2.4.

 Final stabilisation is to achieve C-factors as dictated by Table 1 (Refer to Drawing 0000222-SWMPON).

 All construction-phase ension and sediment control measures (e.g. sediment fences, and energy dissipaters) are to the stabilisation is to achieve C-factors as dictated by Table 1 (Refer to Drawing 0000222-SWMPON).

All construction-phase erosion and sediment control measures (e.g. sediment fences, and energy dissipaters) are to remain in place for the duration of the works. Propered the filled surface by cosening it (SD7-1) Place togsoil at 75 nm thickness, 50 nm if slope exceeds 4:1(SD4-2) Place togsoil at 75 nm thickness, 50 nm if slope exceeds 4:1(SD4-2) Incorporate any aneitorants necessary to ensure good growth Seed the surface. Incorporate sterile crops such as oats and/or Japanese Millet to quickly form a good ground cover until native species grow. Sow when ground moisture is sufficient; irrigate if required. Keep traffic off rehabilitated areas.

- The expinenting plans. Strip Topsoil when moist only (not wet ar dry). Strokcpies are to be positioned in the locations shown and in accordance with the Stockpiling notes. Progressively stabilise ground surfaces as works are completed (Refer to the Stabilisation notes). If rain is predicted and/or the site is closed, place theck berns on exposed surfaces at 20m spacings (eg straw wattles, straw _____
- Unce all access road construction works have completely finished and all ground surfaces, table drains and batters are stabilised rdance with Table 11 the following erosion and sediment control measures for the access road construction stage can be
- Sediment fencing;
 Barrier fencing;
- raps at culvert/pipe inlets (i.e. Straw bale filter or sediment fencing);
- Check dams. NOTE: Table drains, tabers, culverts/pipes and energy dissipaters are permanent fixtures and should remain in place after the access road construction has been completed.

StocopeLas
 StocopeLas
 StocopeLastics are shown on Drawing 09000242-SWPPD1. The site manager is to designate safe stockpile sites in these locations. All stockpiles must be constructed and maintained in accordance with Standard Drawing SD L-1 and the following regulations:

 All stockpiles must have sediment fencing installed around their bases as per Standard Drawing SD 4-1.
 Stockpiles are not to be positioned within a riperian zone (i.e. within 40m of a creek).
 Stockpiles are not to be positioned within a riperian zone (i.e. within 40m of a creek).
 Stockpiles are to be stallised to aclose a conditioned around their bases as per Standard Drawing SD 4-1.
 Stockpiles are to be stallised to aclose a conditioned around their bases as per Standard Drawing SD 4-1.
 Stockpiles are to be stallised to aclose a conditioned within a riperian zone (i.e. within 40m of a creek).
 Stockpiles are to be stallised to aclose a conditione according to the permanent pasture species and fertilised.
 Stockpiles are to be stallised to aclose a conditione of 0. within 10 days of formation. Stabilisation measures on stockpiles must be emoloyed as per the requirements as of unit rial and Table 1 and Table 2.
 Stockpiles can be constructed to maximum 3m in height, however where there is sufficient area, they should be less than 2 meters in height.

SELF AUDITING PROGRAM A self-auditing program must be initiated for the site. The site manager is to inspect the site at least fortnightly and maintain a log of inspections, paying particular attention te I. Removal of spilled clay/shale or other materials from near riparian areas (i.e. creek and existing dams). B. Ensuring barrier fercing is maintained and exclusion zones are being observed by all workers and contractors. W Constructing additional erosion and/or sediment control works as might become necessary to ensure the desired water control is achieved.

- in height: The working face of the stockpile should be battered down at a maximum slope of 3:1.

Any

Victure control in the probability of the extended of the extende

- ENT FENCING

- Install sediment fences in the locations shown on Drawings 0900242-SWMP01. Install all sediment fencing in accordance with Standard Drawing SD 6-8. Sediment fences must be firmly trenched into the ground for their entire length. Sediment fences must include small 'returns' (see Standard Drawing 6-8) to minimise the risk of water flowing along them rather than through them.
- fences are to be installed around the toe of all stockpiles (Refer to Standard Drawing SD 4-1).
- MONITORING AND MAINTEMANCE General The site manager is to deline

- The site manager is to delineate an appropriate location for the site office or compound/s. Safe storage areas areas for vastes, fuels and other hazardous materials are to be delineated at the discretion of the site manager. These areas should be stored and managed as per the requirements for containment bunds. Storage locations for ersison control materials are to be elineated at the discretion of the site manager. Any vaste materials (such as rocks and debris) are to be removed from any publically trafficked road surface as soon as possible. Any sediment accumulated in trapping devices is to be removed from any publically trafficked road surface as soon as possible. Will be re-entrained in runoff. Waste receptaces are to be empired as necessary. Disposal of vaste must be in a manner approved by the site superintendent. Replace straw bales at 3-monthly intervals.
- DATE ₿ APP. REVISION DETAILS DESIGN BY DRAWN BY FINAL APPROVAL SCALE: (on A1 Original) DRAWING STATUS M.P. 06/10 06/10 06/10 Nort CLIENT MR AND MRS NEIL CLEMENTS

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