The layout shown is slightly offset for scale.

1. All drainage subject to micro-siting and installation of drainage features following detailed
   topography.

2. Erosion and velocity control measures such as:
   a) Sand bags
   b) Filter fabrics
   c) Straw bales
   d) Sediment traps
   e) Flow limiters
   f) In-stream Sedimats

3. Using small working areas, working in appropriate weather and suspending operations when
   necessary.

4. Drainage measures to be installed prior to, or at pre-construction stage drainage design.

5. Design elevation of the water surface along the lower drains/ditches to be incorporated into
   existing roads.

6. Check dam designs to be selected best to suit or swale in which they are being installed.

7. Source Controls:
   a) Proprietary settlement systems such as Siltbuster
   b) Diversion drains, flumes and culvert pipes
   c) Collector drains / oversized swales, vee-drains
   d) Collecting sumps, temporary sumps, pumping systems
   e) Silt dewatering bags
   f) In-stream Sedimats
   g) In-stream filtration systems
   h) In-stream gravel/stone systems
   i) In-stream vegetation

8. Avoidance Controls
   a) Application of 15m buffer zones to artificial
   b) Using small working areas
   c) Covering stockpiles
   d) Working in appropriate weather and suspending operations when necessary.

9. Drainage Layout
   a) BORROW PIT NO. 2
   b) Existing Drainage
   c) Existing Culverts / Bridges

10. Settlement ponds to be sized according to the farm construction.

11. Proposed construction compound / amenity area

12. Existing drains/ditches to be incorporated into existing roads

13. Dams, culverts, swales, settlement ponds and level

14. Flow diversion / discharge

15. SWALE / FILTER BED / SECONDARY SP

16. Settling pond

17. Diversion drains, flumes and culvert pipes

18. Collector drains / oversized swales, vee-drains

19. Collection sumps, temporary sumps, pumping systems

20. Silt dewatering bags

21. In-stream Sedimats

22. In-stream filtration systems

23. In-stream gravel/stone systems

24. In-stream vegetation

25. Source controls:
   a) Proprietary settlement systems such as Siltbuster
   b) Diversion drains, flumes and culvert pipes
   c) Collector drains / oversized swales, vee-drains
   d) Collecting sumps, temporary sumps, pumping systems
   e) Silt dewatering bags
   f) In-stream Sedimats
   g) In-stream filtration systems
   h) In-stream gravel/stone systems
   i) In-stream vegetation

26. Avoidance controls:
   a) Application of 15m buffer zones to artificial
   b) Using small working areas
   c) Covering stockpiles
   d) Working in appropriate weather and suspending operations when necessary.

27. Drainage layout:
   a) Borrow pit no.
   b) Existing drainage
   c) Existing culverts / bridges

28. Environmental services
   a) McCarthy Keville and O'Sullivan
   b) Rosemore House, Co. Donegal
   c) Email: info@hydroenvironmental.ie
   d) Tel: 051 345 220
   e) www.hydroenvironmental.ie

Key Plan:
(underlay is study area not the application boundary)