POLLUTION PREVENTION NOTES:

 SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION.

- SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES.
- SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.

DISCHARGES

- 4. WATER CONTAINING SILT WILL NOT BE PUMPED DIRECTLY TO ANY NATURAL WATERCOURSE. ALL DISCHARGES TO BE MADE OVER OPEN GROUND OR INTO EXISTING FIELD DRAIN WITH SILT TRAP AT A MINIMUM OF 20M FROM NEAREST WATERCOURSE UNLESS OTHERWISE STATED.
- NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.
- PUMPED WATER WILL BE DIRECTED INTO TRACK SIDE DITCHES AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE.
 PUMPING OF CLEAN WATER FROM EXCAVATIONS / OR OVER-PUMPING IN DRAINS/DITCHES/STREAMS WILL BE COMPLETED IN A MANNER THAT DOES NOT CAUSE SCOUR OR EROSION AT THE POINT OF RELEASE/DISCHARGE. THIS WILL BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND OTHER SIMILAR DISCHARGE CONTROLS.
 VFGETATION WILL NOT BE STRIPPED
- FROM EXISTING DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY. EXCAVATIONS
- WHERE DEEP EXCAVATIONS ARE PROPOSED CUT-OFF DRAINS WILL BE USE TO REDUCE THE AMOUNT OF SURFACE WATER ENTERING THE EXCAVATION. THIS WILL BE THE CASE AROUND TURBINE BASE EXCAVATIONS.
- EXPOSED GROUND & STOCKPILES 10. The amount of exposed ground and temporary stockpiles open at any one time will be minimised, as far as

PRACTICABLE.

- USE OF TRACK SIDE SWALES WITH CHECK DAMS, AND/OR FILTRATION CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED.
- CHECK DAMS TO BE INSPECTED AND CLEANED REGULARLY.

REFUELING

- 13. REFUELLING OF MOBILE PLANT WILL BE COMPLETED IN DESIGNATED REFUELING AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / DITCHES AND WATERCOURSES / WATERBODIES.
- 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS REQUIRED.

<u>Concrete</u> 15. Care will be taken when completing

CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR. 16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED

IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING STEPS WOULD BE ADHERED TO:

APPROPRIATELY ON SITE.

STOP - WORK IN THE IMMEDIATE AREA SHOULD BE STOPPED AND THE SOURCE OF THE POLILITION IDENTIFIED.

<u>CONTAIN</u> - THE SOURCE OF THE POLLUTION SHOULD BE BUNDED USING A SUITABLE METHOD. NATURAL WATERCOURSES SHOULD BE TEMPORARILY DIVERTED AROUND THE SOURCE OF POLLUTION.

NOTIFY - THE RELEVANT AUTHORITIES (SITE MANAGER / FISHERIES / NPWS / LOCAL AUTHORITY ETC.) SHOULD BE NOTIFIED IMMEDIATELY TO ENSURE THAT MEASURES CAN BE IMPLEMENTED DOWNSTREAM TO PROTECT FISHERIES AND OTHER SENSITIVE AREAS. RAINAGE NOTES ROADWAY SURFACING DESIGN AND CONSTRUCTION ENGINEER'S SPECIFICATION (I.E. BY OTHERS). SPARE STRAW BALES/SILT FENCING/ OR SIMILAR, O BE STORED ON SITE. THE LEVEL OF SILT IN RUNOFF URING CONSTRUCTION IS TO BE MONITORED VISUALLY AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE EMPORARILY MANAGED BY PLACING SILT FENCES, TRAW BALES / OR SIMILAR OR ADDITIONAL CHECK DAMS T THE PROBLEM AREAS. MOBILE SILTBUSTER SYSTEM BE AVAILABLE ON-SITE FOR USE AS REQUIRED ALSO SUDS SYSTEM TO BE CONSTRUCTED PRIOR TO, OR T THE SAME TIME AS THE ACCESS TRACKS. INTERIM EASURES SUCH AS THE PLACEMENT OF STRAW ALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR DDITIONAL CHECK DAMS AND SILT FENCES TO BE MPLOYED IN ALL INSTANCES WHERE WORK CARRIED OUT O CONSTRUCT THE ACCESS TRACKS IS LIKELY TO AUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH NCREASED SILT LOADINGS BEING GENERATED DURING

THE CONSTRUCTION PHASE. 4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO RECEIVING WATERCOURSES. SEE NOTES ON POLLUTION PREVENTION. 5. INTERCEPTOR SWALES / DITCHES TO BE USED TO COLLECT UPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DITCHES/DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER IN INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.

6. DRAINAGE SWALES / DITCHES TO BE EXCAVATED ADJACENT TO THE ACCESS TRACKS. REGULAR CROSS DRAINS TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN THE SWALES / DITCHES. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.

 WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK SWALES / DITLES

RACK SWALES / DITCHES. BATTERS OF ALL PROPOSED SWALES / DITCHES O HAVE A SLOPE OF BETWEEN 1 : 1.5 TO 1 : 2 EPENDING UPON DEPTH OF SWALE/DITCH AND WILL BE EFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES. TRACK SIDE SWALES / DITCHES TO BE SHALLOW TH MODERATE GRADIENTS TO PREVENT SCOURING. IN TEEP AREAS CHECK DAMS SHOULD BE INSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL F SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT ONDS AND SILT TRAPS, PRIOR TO DISCHARGE. SETTLEMENT PONDS TO BE CONSTRUCTED FOR ILT REMOVAL AT TURBINE BASES AND HARD STAND REAS. POND SIZES DEPENDS ON CATCHMENT AREA SERVED. SAMPLE POND SIZES SHOWN ON DRAWING D50 STRAW BALES / OR SIMILAR AND SILT FENCES TO E USED ALSO AROUND SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE EGETATION COVER IS ESTABLISHED. SILT FENCES TO BE PROVIDE ALONG EDGE OF XISTING WATERCOURSE WHERE WORKS COMES WITHIN (15M OF EDGE OF ANY DITCH / EPHEMERAL CHANNELS. 3. SLOPES OF THE SWALES / DITCHES TO BE EGETATED OR PROTECTED FROM EROSION UNTIL FGETATION HAS BEEN ESTABLISHED STRIPPED EGETATIVE LAYER (SOIL 'SOD' OR 'SCRAW') FROM XCAVATIONS TO BE STORED LOCALLY AND USED TO INE SLOPES AND BASE OF SWALES / DITCHES OR ONGITUDINAL MOUNDS OF VEGETATION SWALES AT IELD DRAIN DISCHARGE POINTS. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT O A MINIMUM CLEAN STONE FLOW CONTROL CHECK DAMS TO BE ADE OF LOCALLY WON / GEOLOGICALLY SIMILAR WELL GRADED STONE. AGGREGATE SIZE FOR STONE CHECK DAMS TO BE TYPICALLY 20- 40MM CLEAN STONE. ON LOPING SECTIONS OF THE ACCESS TRACKS, 40MM HECK DAMS TO BE PROTECTED FROM WASHING AWAY HROUGH THE PLACEMENT OF 100M STONE ON THE OWNHILL FACE OF THE CHECK DAM AND BY WRAPPING N GEOTEXTILE.

N GEDIEXTILE. 6. BUILD UP OF SILT LEVELS AT CHECK DAMS TO BE REMOVED AND DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY INSPECTED AS YART OF AN ONGOING DRAINAGE MAINTENANCE TROGRAMME DURING THE CONSTRUCTION PHASE. WHERE CHECK DAMS BECOME CLOGGED WITH SILT OR REGETATION, STONE CHECK DAM TO BE REMOVED AND REPLACED SUBSEQUENT TO THE REMOVAL OF SILT. 7. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON LONGITUDINAL GRADIENT OF SWALE. 8. LOCATION OF FILTRATION CHECK DAMS (IF

OL LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. SETTLEMENT PONDS TO BE CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER VARE (POST COMPLETION OF THE TURBINE BASE AND GARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS :XCAVATED FROM THE POND TO BE USED TO FORM PART DF THE EMBANKMENT AROUND THE POND.
9. OIL FUEL SHOULD BE STORED WITHIN BUNDED ::ONTAINMENT STRUCTURES.
20. SITE BAGS WILL BE USED ON SITE AT FIELD DRAIN DISCHARGE LOCATIONS, AS NECESSARY.

