POLLUTION PREVENTION NOTES: I. SITE MANAGEMENT PROPOSALS ARE INTENDED TO ENSURE PROTECTION AGAINST	MITIGATION / DRAINAGE COINTROLS AVAILABLE FOR USE ACROSS THE SITE		
SURFACE WATER AND GROUNDWATER POLLUTION, SILTATION AND EROSION. 2. SUITABLE DRAINAGE CONTROL MEASURES SHOULD BE IN PLACE AT ALL TIMES	Management Type	DESCRIPTION OF SUDS DRAINAGE CONTROL	1.17
TO PREVENT CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO OFF SITE RECEIVING WATERCOURSES. 3. SILTY WATER CAN ARISE FROM DEWATERING EXCAVATIONS, EROSION OF		METHODS I) APPLICATION OF 50M BUFFER ZONES TO NATURAL WATERCOURSES WHERE POSSIBLE	1.17
EXPOSED/DISTURBED GROUND, TEMPORARY STOCKPILES, PLANT AND WHEEL WASH, SITE ROADS/TRACKS, AND DISTURBANCE OF EXISTING FIELD DRAINS AND DITCHES.	AVOIDANCE	2) APPLICATION OF 10M BUFFER ZONES TO MAIN DRAINS WHERE POSSIBLE	
DISCHARGES	CONTROLS	3) USING SMALL WORKING AREAS4) WORKING IN APPROPRIATE WEATHER, AND SUSPENDING CERTAIN WORK ACTIVITIES IN ADVANCE OF FORECASTED	
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		WET WEATHER I) USE OF UPSTREAM INTERCEPTOR DRAINS AND	
WATERCOURSE UNLESS OTHERWISE STATED. 5. NO EXCAVATED MATERIAL IS TO BE STORED WITHIN ANY SURFACE WATER BUFFER ZONE.		DOWNSTREAM COLLECTOR DRAINS, DIVERSION DRAINS, AND CULVERT PIPES 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS:	
 PUMPED WATER WILL BE DIRECTED INTO COLLECTOR DRAINS AND TREATED IN SETTLEMENT PONDS AND VEGETATION SWALES PRIOR TO OVERLAND DISCHARGE. 		A) SAND BAGS B) OYSTER BAGS FILLED WITH GRAVEL	
7. 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	SOURCE CONTROLS:	C) FILTER FABRICS D) AND OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS	
BE DONE BY REDUCING THE FLOW VELOCITIES OR BY USE OF SPLASH PLATES, AND/OR OTHER SIMILAR DISCHARGE CONTROLS. 8. VEGETATION (WHERE PRESENT) WILL NOT BE STRIPPED FROM EXISTING		3) USING SMALL WORKING AREAS 4) SURROUNDING TEMPORARY STOCKPILES CONTAINING SUBSOIL WITH SILT FENCING	
DRAINS/DITCHES UNLESS ABSOLUTELY NECESSARY.		5) WEATHERING OFF / SEALING PEAT STOCKPILES	
Excavations 9. Where deep excavations (>2.5m) are proposed, cut-off drains will be use to reduce the amount of surface water entering the excavation.		I) INTERCEPTOR DRAINS, AND/OR COLLECTOR DRAINS/OTE	3
This will be the case around turbine base excavations. Exposed Ground & Stockpiles		DRAINAGE 2) EROSION AND VELOCITY CONTROL MEASURES SUCH AS: A) SAND BAGS	77
 DURING THE CONSTRUCTION PHASE, THE AMOUNT OF EXPOSED GROUND AND TEMPORARY STOCKPILES OPEN AT ANY ONE TIME WILL BE MINIMISED, AS FAR AS PRACTICABLE. 		 B) OYSTER BAGS FILLED WITH GRAVEL C) SILT FENCES/FILTER FABRICS D) CHECK DAMS/WEIRS OR BAFFLES 	E E E
SITE TRACKS II. USE OF TRACK SIDE COLLECTOR DRAINS WITH CHECK DAMS, AND/OR FILTRATION	IN-LINE CONTROLS:	 E) AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS. J) IN STREAM SEDIMATS 	A A A A A A A A A A A A A A A A A A A
CHECK DAMS WILL REDUCE SILT IN RUNOFF WATER AS REQUIRED. 12. WHERE USED, CHECK DAMS ARE TO BE INSPECTED AND CLEANED REGULARLY.		4) COLLECTION SUMPS, TEMPORARY SUMPS, PUMPING SYSTEMS	
Refueling 13. Refuelling of mobile plant will be completed in designated refueling		5) ATTENUATION PONDS6) SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS	English English
AREAS ONLY, PREFERABLY ON AN IMPERMEABLE SURFACE AND AWAY FROM FIELD DRAINS / MAIN DRAINS AND OUTSIDE OF WATERCOURSE BUFFERS. 14. SPILL KITS AND DRIP TRAYS WILL BE AVAILABLE ON SITE FOR USE AS			Se has i se as a se as
REQUIRED.	Water Treatment	 SILT FENCING TEMPORARY SUMPS/ATTENUATION PONDS SEDIMENT TRAPS, STILLING / SETTLEMENT PONDS 	and the second s
CONCRETE 15. CARE WILL BE TAKEN WHEN COMPLETING CONCRETE WORKS ON SITE TO ENSURE NO DISCHARGES OCCUR.	CONTROLS:	4) PROPRIETARY SETTLEMENT SYSTEMS SUCH AS SILTBUSTER, AND/OR OTHER SIMILAR/EQUIVALENT OR APPROPRIATE SYSTEMS.	Star and and
16. CONCRETE WASH WATER, AND WASTE CONCRETE WILL BE MANAGED APPROPRIATELY ON SITE. TEMPORARY CONCRETE WASH OUT AREA WILL BE PROVIDED WHERE DEEMED NECESSARY FOR LARGER POURS		6) SILT DEWATERING BAGS	E Swinn with the second
IF WATER POLLUTION IS IDENTIFIED THE FOLLOWING	OUTFALL CONTROLS:	 LEVELSPREADERS BUFFERED OUTFALLS VEGETATION FILTERS 	
STEPS WOULD BE ADHERED TO:		4) SILT DEWATERING BAGS 5) FLOW LIMITERS AND WEIRS	Sten is how
\underline{STOP} - work in the immediate area should be stopped and the source of the pollution identified.			
$\underline{CONTAIN}$ - the source of the pollution should be bunded using a suitable method. Main drains and outfall routes to natural watercourses should be temporarily diverted around the source of			S and so the second sec
POLLUTION.			ZAF M LI M STAN
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			E Barris
SENSITIVE AREAS.			OPTIONAL CHECK DAM @ 100 M CENTERS
DRAINAGE NOTES: . Acess track surfacing design and construction to Engineer's Specification (i.e. by others).			REFER TO DETAIL C
2. Spare silt fencing/ or similar, to be stored on site. The level of silt in runoff during construction is to be monitored visually			lo about
AND EXCESSIVE SILT LEVELS IN ANY AREA TO BE TEMPORARILY MANAGED BY PLACING SILT FENCES, CHECK DAMS / OR SIMILAR OR ADDITIONAL CHECK DAMS AT THE PROBLEM AREAS. WHERE REQUIRED, MOBILE SILTBUSTER			
system to be available on-site for use. 3. SUDS system to be constructed prior to, or at the same time as the access tracks. Interim measures such as the placement of			> A marsha
STRAW BALES/SILT FENCING/OR SIMILAR APPROVED METHOD OR ADDITIONAL CHECK DAMS AND SILT FENCES TO BE EMPLOYED IN ALL INSTANCES WHERE			
WORK CARRIED OUT TO CONSTRUCT THE ACCESS TRACKS IS LIKELY TO CAUSE ADVERSE ENVIRONMENTAL EFFECTS THROUGH INCREASED SILT LOADINGS BEING GENERATED DURING THE CONSTRUCTION PHASE.			> the share and
4. SUITABLE PREVENTION MEASURES SHOULD BE IN PLACE AT ALL TIMES TO PREVENT THE CONVEYANCE OF SIGNIFICANT VOLUMES OF SILT TO MAIN DRAINS AND DRAINAGE ROUTES TO RECEIVING WATERCOURSES. SEE NOTES ON	CLEAR COLORING	80.00	a the set set
POLLUTION PREVENTION. 5. INTERCEPTOR DRAINS TO BE USED TO COLLECT AND REDISTRIBUTE		m 2	3 2 CAL
JPSTREAM SURFACE WATER FLOWS. REGULAR CROSS DRAINS / DISCHARGE TO FIELD DRAINS WILL BE REQUIRED TO TRANSFER / DISCHARGE SURFACE WATER N INTERCEPTOR DRAINS TO SUITABLE FIELD DRAIN OUTFALL POINTS.		5	
6. WHERE REQUIRED, CROSS DRAINS ARE TO BE LOCATED ALONG ACCESS TRACKS TO PREVENT EXCESSIVE VOLUMES OF WATER COLLECTING IN LOW POINTS. LOCATIONS OF CROSS DRAINS TO BE AGREED WITH THE ENGINEER ON			
SITE. SURFACE WATER WILL NOT BE ALLOWED TO DISCHARGE DIRECTLY INTO EXISTING WATERCOURSES.		SG m	
7. WHERE POSSIBLE, A BUFFER ZONE OF >20M TO ANY EXISTING WATERCOURSE WILL BE REQUIRED WHERE OVER LAND DISCHARGES ARE PROPOSED FROM ACCESS TRACK DRAINS.			SP Tw
B. BATTERS OF ALL PROPOSED DRAINS TO HAVE A SLOPE OF BETWEEN : 1.5 TO I : 2 DEPENDING UPON DEPTH OF DRAIN AND WILL BE LEFT AS CUT TO RE-VEGETATE WITH LOCAL SPECIES.		BOUNDARY	And a start of the
9. TRACK SIDE DRAINS TO BE SHALLOW WITH MODERATE GRADIENTS TO PREVENT EROSION/SCOUR. IN STEEP AREAS CHECK DAMS SHOULD BE NSTALLED TO REDUCE FLOW VELOCITIES AND PROVIDE SOURCE CONTROL OF		and the second s	marker and a start of the start
SILT CONTAINMENT. WHERE NECESSARY THESE HAVE BEEN DESIGNATED IN CONJUNCTION WITH SETTLEMENT PONDS AND SILT TRAPS, PRIOR TO		and the second s	
discharge. 0. wind farm Settlement ponds to be constructed for silt removal at turbine bases and hard stand areas. Pond sizes depends		2 cm line may of	Martin States
ON CATCHMENT AREA SERVED. SAMPLE POND SIZES SHOWN ON DRAWING D501.	ε	All and	
 SILT FENCES OR SIMILAR, TO BE USED ALSO AROUND SUBSOIL SPOIL HEAPS TO MITIGATE SILT RUNOFF. SILT FENCES MAY BE REMOVED WHEN SUITABLE VEGETATION COVER IS ESTABLISHED. 	9 2 2	I Sall II I Sa	≈₃
2. SILT FENCES TO BE PROVIDED ALONG EDGE OF EXISTING MAIN DRAINS / WATERCOURSE WHERE WORKS COMES WITHIN <15M OF EDGE OF ANY MAIN DRAIN / EPHEMERAL CHANNELS.		the first of the second	
3. SLOPES OF THE DRAINS TO BE VEGETATED OR PROTECTED FROM EROSION UNTIL VEGETATION HAS BEEN ESTABLISHED. STRIPPED VEGETATIVE AYER (PEAT 'SOD' OR 'SCRAW') FROM EXCAVATIONS TO BE STORED LOCALLY			A A A A A A A A A A A A A A A A A A A
FOR REUSE DURING LANDSCAPING OF STOCKPILES. 4. AREAS STRIPPED OF VEGETATION SHOULD BE KEPT TO A MINIMUM.	S m S Z		
5. Clean stone flow control check dams to be made of locally won / geologically similar well graded stone. Aggregate size for stone check dams to be typically 20- 40mm clean stone. On sloping	5		
sections of the access tracks, 40mm check dams to be protected from washing away through the placement of 100m stone on the	1 cm	and a set of a	
DOWNHILL FACE OF THE CHECK DAM AND BY WRAPPING IN GEOTEXTILE. 6. Build up of silt levels at check dams to be removed and DISPOSED OF APPROPRIATELY. SILT LEVELS AT CHECK DAMS TO BE VISUALLY	2 2 2 V	for the for th	SP TW
nspected as part of an ongoing drainage maintenance programme during the construction phase. Where check dams become clogged with silt or vegetation, stone check dam to be removed and	La La Martin	M K	
REPLACED SUBSEQUENT TO THE REMOVAL OF SILT. 7. SPACING AND FREQUENCY OF CHECK DAMS WILL BE DEPENDENT UPON			
LONGITUDINAL GRADIENT OF THE DRAIN. 8. LOCATION OF FILTRATION CHECK DAMS (IF REQUIRED) TO BE AGREED ON SITE WITH ENGINEER. WIND FARM SETTLEMENT PONDS TO BE		Crain Crain Contraction of the C	I's' I LEESS
CONSTRUCTED IN A MANNER WHERE THEY MAY BE EASILY INFILLED AT A LATER DATE (POST COMPLETION OF THE TURBINE BASE AND HARDSTAND CONSTRUCTION). ONLY SUITABLE MATERIALS EXCAVATED FROM THE POND TO			A a for the start of the second se
BE USED TO FORM PART OF THE EMBANKMENT AROUND THE POND. 9. OILS/FUELS SHOULD BE STORED WITHIN BUNDED CONTAINMENT		<u> </u>	And the second sec
structures. 20. silt bags will be used on site at field drain discharge locations, as necessary.	Metres	The A Card .	A A A A A A A A A A A A A A A A A A A
	and the second sec	2 1 2 1 2	

