

BELMONT BORROW PIT METHOD STATEMENT

BELMONT BORROW PIT METHOD STATEMENT		DOCUMENT NO	
Contractor		Contract No	
Contact Person			
Contract Period			
<i>THIS DOCUMENT MUST BE COMPLETED USING THE TRANSNET PROJECTS CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN, WHICH INCLUDES THE STANDARD ENVIRONMENTAL SPECIFICATIONS.</i>			
For	Method Statement for the mining of Belmont borrow pit		
Scope	<p>The purpose of mining this borrow pit is to obtain suitable material to be used for earthworks construction. The main activities associated with mining of the borrow pit will include the clearing of the borrow pit area (i.e. removal of trees and grass), removal of topsoil to stockpile, construction of access roads/ramps, excavation of the borrow pit material to stockpile, loading the borrow material into tipper trucks, processing the borrowed material for use in earthworks construction, management of the borrow pit, and closure and rehabilitation of the borrow pit.</p> <p>Permits for the use of borrow pits must be obtained before any work can start on the borrow pit. Daily excavation inspection sheets are to be completed and all works is to be inspected by foreman and site engineer. Records of competency, risk assessments, toolbox talks and DSTI's will be kept at site office for reference.</p> <p>The following specifications are to be adhered to:</p> <ul style="list-style-type: none"> • SANS 1200 • Additions and variations to SANS 1200 • TCP Construction Environmental Management Plan (ENV-STD-001 Rev00) • General Conditions of Contract (GCC02) • Special Conditions of Contract (GCC10) – New Edition, June 2008. <p>A Search and Rescue Contractor will conduct work along five/eight metre wide strips which will be bush cut (chipped in situ) in order to provide vehicular access to the target points/borrow pit. Where plant specimens are required to be removed the soil is loosened around the plant, once identified, and then carefully lifted out of the ground and placed into woven bags for ease of transportation to an approved designated site, where they are replanted by the Planting Team into a pre-prepared area.</p> <p><u>Clearing and Grubbing</u></p> <p>This task involves the clearing and removal of trees and grass to designated areas identified by the engineer.</p> <ul style="list-style-type: none"> • The borrow pit area is to be surveyed before any work commences • The relevant data is then submitted to the Environmental Officer for approval of the borrow area • Environmental guidelines according to the EMP must be adhered to • All trees and grass is to be removed and grubbed material is dozed into stockpiles • Loaders and tippers remove the grubbed material to the designated stockpile area identified by the engineer <p><u>Stripping of Topsoil</u></p> <p>This task involves the removal of topsoil material to stockpile, identified by the engineer, for future use.</p> <ul style="list-style-type: none"> • The borrow pit area is to be surveyed before any work commences • The topsoil is to be dozed or graded to stockpile or to the edge of the borrow pit area as specified by the engineer 		



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	<ul style="list-style-type: none"> • Topsoil is moved to designated stockpile area with the use of loaders and tippers • The size and quantity of equipment to be used is determined by the conditions on site • Stockpiling procedures are to be followed as per the EMP • Water carts to be used for dust suppression <p><u>Management of Borrow Pit</u></p> <p>This task involves the management of the face of excavations, barricading and providing access to the borrow pit.</p> <ul style="list-style-type: none"> • Side slopes of the borrow pit to be trimmed to correct slope angle except for the live borrow pit face • Floor of borrow pit to be checked regularly to ensure smooth and safe driving surfaces • Berms to be constructed on the edges of the borrow pit • Drainage measures to be put in place to prevent damming of water • Water carts to be used for dust suppression • Testing of materials is to be done in accordance with quality plan • Guidelines according to the EMP must be adhered to <p><u>Rehabilitation of Borrow Pit</u></p> <p>This task involves the rehabilitation of the borrow pit by the laying and spreading of top soil onto the borrow pit excavation.</p>		
Where	<p>The site (Belmont Borrow Pit) is located just East of the existing Belmont crossing station, along the rail route between Kimberley and De Aar.</p> <p>X-coordinate: 3255824.000 Y-Coordinate: 61723.000</p>		
When	<p>May 2014 – May 2017</p>		
Drawing Plan	<p>Refer to the drawing H339473-3212-10-042-0005-001</p>		
Spoil/Waste site	<p>To be identified by engineer.</p>		
Restriction to the Works	<ul style="list-style-type: none"> • Excavations should avoid bush clumps as far as possible, particularly those containing protected tree species. • Where bush clumps cannot be avoided, a search and rescue exercise will be required. 		
Personnel, Plant and Equipment	<p>Geotechnical Contractor who will use the following equipment:</p> <ul style="list-style-type: none"> • Excavators • Dozers • Tipper Trucks (12 m³) • 140H Graders • Water Trucks (14 kl) • Flags • Lowbed Truck (For transporting machines on and off site) <p>Search and Rescue Contractor who will use the following equipment:</p> <ul style="list-style-type: none"> • Hand tools (pick, fork, screwdriver etc). 		
Description of how potential environmental impacts will be prevented or managed:			
Activity	Impact	Mitigation	Monitoring
Borrow pit excavation	<ul style="list-style-type: none"> • Hamper natural revegetation of plants. • Accidental removal of sensitive species. 	<ul style="list-style-type: none"> • Backfill soil immediately after the soil profile has been recorded. Do not compact soil once it has been backfilled. 	<ul style="list-style-type: none"> • No waste shall be disposed of by burning or burying. • All general waste generated shall be disposed of at a licensed

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		<ul style="list-style-type: none"> The subsoil and topsoil need to be separated and backfilling done with subsoil first and then topsoil. Bush clearing must take place in a manner in line with the method statement of the Search and Rescue Contractor. 	<p>waste disposal site. Waste shall be collected and disposed of on a weekly basis.</p> <ul style="list-style-type: none"> Contaminated soil shall be disposed of at a licensed hazardous waste facility if remediation is not possible. Close out audit following completion of contract.
Completed By			
	Print Name and Surname	Signature	Date
Approved (Transnet Capital Projects Environmental Officer)			
	Print Name and Surname	Signature	Date
Countersigned (Transnet Capital Projects Contracts Manager)			
	Print Name and Surname	Signature	Date
Permits Issued			
Site Mobilization Permit	Date Issued	Permit to Commence with Works	Date Issued