

APPENDIX D3 - COORDINATES OF LISTED ACTIVITIES

LISTING NOTICE 1			
Activity	Description	Applicability	Co-ordinates
19	<p>Infilling or depositing of any material of more than 10m³ into or dredging, excavation, removal or moving of soil, sand shells, shell grit, pebbles or rock of more than 10m³ from a watercourse.</p>	<p>The proposed rehabilitation works will result in the infilling of more than 10m³ into/from a watercourse i.e.,</p> <ul style="list-style-type: none"> ▪ Concrete parapet wall with 1.2m wide base; ▪ Earth fill to flatten downstream slope of dam wall; ▪ Sloping of spillway channel; ▪ Construction of chimney drain and toe drain; ▪ Temporary coffer dam and expansion of intake tower. ▪ Rock stabilisation and erosion protection by rubble masonry; ▪ Concrete barrier ▪ Pedestrian bridge over spillway. <p>The rehabilitation works will take place in and on the embankment of the Casteel Dam (watercourse) and within a Channelled Valley Bottom (CVB) wetland associated with the tributary of the Tlulandziteka River.</p> <p>The material volumes to be used as infill as part of the rehabilitation works include:</p> <ul style="list-style-type: none"> ▪ 28 000m³ of gravel ▪ 5000m³ of concrete ▪ 2500m³ of Rockfill 	<p>Rehabilitation Works S 24°41'34.24" (RW1) E 31° 1'30.85 S 24°41'36.99 (RW2) E 31° 1'33.24" S 24°41'39.94" (RW3.1) E 31° 1'33.95" S 24°41'39.39" (RW3.2) E 31° 1'34.69" S 24°41 '34.82 (RW4) E 31°1 '36.09" S 24°41 '33.52 (RW5) E 31°1 '35.17 " S 24°41 '32.38 (RW6) E 31°1 '37.04 " S 24°41 '28.08 (RW7) E 31°1 '37.75 " S 24°41 '26.68 (RW8) E 31°1 '37.42 " S 24°41 '26.67 (RW9) E 31°1 '36.90 " S 24°41 '30.34 (RW10) E 31°1 '36.65 "</p>
27	<p>Clearance of 1 ha or more but less than 20 ha of indigenous vegetation, except where such clearance of indigenous vegetation is required for – (i) undertaking of a linear activity; or (ii) maintenance purposes undertaken in accordance with a maintenance plan.</p>	<p>Clearance of 4.5-hectares of a combination of terrestrial and wetland vegetation for the dam rehabilitation works and associated access roads i.e.</p> <ul style="list-style-type: none"> ▪ 2.85-hectares Granite Lowveld degraded shrubland and Phragmites mauritiana wetland for the dam rehabilitation works. ▪ 1.1-hectares of Granite Lowveld degraded shrubland for the realignment of the R40/Casteel Dam access road and site establishment area; ▪ 0.35-hectares of modified old lands to create the 300m -350m alternative access road to spillway section and temporary stockpile area. 	<p>Rehabilitation Works S 24°41'34.24" (RW1) E 31° 1'30.85 S 24°41'36.99 (RW2) E 31° 1'33.24" S 24°41'39.94" (RW3.1) E 31° 1'33.95" S 24°41'39.39" (RW3.2) E 31° 1'34.69" S 24°41 '34.82 (RW4) E 31°1 '36.09" S 24°41 '33.52 (RW5) E 31°1 '35.17 " S 24°41 '32.38 (RW6) E 31°1 '37.04 " S 24°41 '28.08 (RW7) E 31°1 '37.75 " S 24°41 '26.68 (RW8) E 31°1 '37.42 " S 24°41 '26.67 (RW9) E 31°1 '36.90 "</p>

			<p>S 24°41'30.34 (RW10) E 31°1'36.65"</p> <p>Site establishment area S 24°41'18.78 (SE1) E 31°1'38.70" S 24°41'20.40 (SE2) E 31°1'34.07" S 24°41'25.06 (SE3) E 31°1'36.76"</p> <p>Realignment of R40/Casteel Dam access road S 24°41'19.18 (AR1) E 31°1'39.93" S 24°41'19.83 (AR2) E 31°1'39.83" S 24°41'19.46 (AR3) E 31°1'39.11" S 24°41'22.63 (AR4) E 31°1'38.33" S 24°41'26.22 (AR5) E 31°1'37.58" S 24°41'26.25 (AR6) E 31°1'37.34" S 24°41'22.58 (AR7) E 31°1'38.10" S 24°41'19.47 (AR8) E 31°1'38.70" S 24°41'19.08 (AR9) E 31°1'38.77"</p> <p>Access Road to spillway S 24°41'37.27 (ARS1) E 31°1'23.00" S 24°41'34.98 (ARS2) E 31°1'23.85" S 24°41'35.52 (ARS3) E 31°1'31.82"</p> <p>Temporary stockpile area S 24°41'33.29" (SP1) E 31°1'22.33" S 24°41'32.02" (SP2) E 31°1'22.72" S 24°41'32.69" (SP3) E 31°1'24.27" S 24°41'33.87" (SP4) E 31°1'23.82"</p>
LISTING NOTICE 3			
Activity	Description	Applicability	Co-ordinates
4	<p>The development of a road wider than 4 meters with a reserve less than 13.5 meters i.e.</p> <p>(i) Outside urban areas: bb) National Protected Area Expansion Strategy (NPAES) Focus Area</p>	<p>The R40/Casteel Dam access road will be realigned to be 6 meters wide and 250 meters in length. The road realignment will take place within a NPAES focus area and CBA 'Optimal' in terms of the 2020 Ehlanzeni Bioregional Plan.</p>	<p>Realignment of R40/Casteel Dam access road S 24°41'19.18 (AR1) E 31°1'39.93" S 24°41'19.83 (AR2) E 31°1'39.83"</p>

	ee) Critical biodiversity areas (CBA) as identified in systematic biodiversity plans adopted in bioregional plans.		<p>S 24°41 '19.46 (AR3) E 31°1 '39.11 "</p> <p>S 24°41 '22.63 (AR4) E 31°1 '38.33 "</p> <p>S 24°41 '26.22 (AR5) E 31°1 '37.58 "</p> <p>S 24°41 '26.25 (AR6) E 31°1 '37.34 "</p> <p>S 24°41 '22.58 (AR7) E 31°1 '38.10 "</p> <p>S 24°41 '19.47 (AR8) E 31°1 '38.70 "</p> <p>S 24°41 '19.08 (AR9) E 31°1 '38.77 "</p>
12	<p>Clearance of an area of 300m³ or more of indigenous vegetation except where such clearance of indigenous vegetation is for maintenance purposes undertaken in accordance with a maintenance management plan.</p> <p>(f) Mpumalanga (ii) within a critical biodiversity area (CBA) identified in bioregional plans</p>	<p>Clearance of approximately 1.4-hectares of terrestrial Granite Lowveld degraded shrubland vegetation for a section of the dam rehabilitation works (0.3ha), the site establishment area (0.9ha) and realignment of the R40/Casteel Dam access road (0.2ha) which falls within a terrestrial CBA 'Optimal' in terms of the 2020 Ehlanzeni Bioregional Plan.</p> <p>Clearance of 0.1-hectares (1000m²) of Phragmites mauritiana wetland vegetation within an aquatic CBA (aquatic river) in terms of the 2020 Ehlanzeni Bioregional Plan for the dam rehabilitation works at the dam embankment, downstream slope of the dam embankment.</p>	<p>Rehabilitation Works</p> <p>S 24°41 '34.24" (RW1) E 31° 1'30.85</p> <p>S 24°41 '36.99 (RW2) E 31° 1'33.24"</p> <p>S 24°41 '39.94" (RW3.1) E 31° 1'33.95"</p> <p>S 24°41 '39.39" (RW3.2) E 31° 1'34.69"</p> <p>S 24°41 '34.82 (RW4) E 31°1 '36.09"</p> <p>S 24°41 '33.52 (RW5) E 31°1 '35.17"</p> <p>S 24°41 '32.38 (RW6) E 31°1 '37.04"</p> <p>S 24°41 '28.08 (RW7) E 31°1 '37.75"</p> <p>S 24°41 '26.68 (RW8) E 31°1 '37.42"</p> <p>S 24°41 '26.67 (RW9) E 31°1 '36.90"</p> <p>S 24°41 '30.34 (RW10) E 31°1 '36.65"</p> <p>Site establishment area</p> <p>S 24°41 '18.78 (SE1) E 31°1 '38.70"</p> <p>S 24°41 '20.40 (SE2) E 31°1 '34.07"</p> <p>S 24°41 '25.06 (SE3) E 31°1 '36.76"</p> <p>Realignment of R40/Casteel Dam access road</p> <p>S 24°41 '19.18 (AR1) E 31°1 '39.93"</p> <p>S 24°41 '19.83 (AR2) E 31°1 '39.83"</p> <p>S 24°41 '19.46 (AR3) E 31°1 '39.11 "</p> <p>S 24°41 '22.63 (AR4) E 31°1 '38.33 "</p> <p>S 24°41 '26.22 (AR5)</p>

			<p>E 31°1 '37.58"</p> <p>S 24°41 '26.25 (AR6)</p> <p>E 31°1 '37.34"</p> <p>S 24°41 '22.58 (AR7)</p> <p>E 31°1 '38.10"</p> <p>S 24°41 '19.47 (AR8)</p> <p>E 31°1 '38.70"</p> <p>S 24°41 '19.08 (AR9)</p> <p>E 31°1 '38.77"</p>
14	<p>The development of –</p> <p>(i) Dams or weirs, where the dam or weir, including infrastructure and water surface area exceeds 10m²; or</p> <p>(ii) infrastructure or structures with a physical footprint of 10m² or more – where such development occurs</p> <p>(a) Within a watercourse</p> <p>(b) In front of a development setback; or</p> <p>(c) If no development setback has been adopted within 32-meters of a watercourse measured from the edge of a watercourse.</p> <p>(f) in Mpumalanga</p> <p>(i) <u>Outside urban areas</u></p> <p>(bb) <u>National Protected Area Expansion Strategy (NPAES) Focus Area</u></p> <p>(ff) <u>Critical biodiversity areas (CBA) as identified in systematic biodiversity plans adopted by the competent authority or in bioregional plans.</u></p>	<p>The dam rehabilitation works will result in the development of infrastructure/structures of 30 795m² (3.08 ha) in extent i.e.</p> <ul style="list-style-type: none"> ▪ 10 000m² works on a spillway section and embankment. ▪ Slope protection ▪ 10 000m² works on main embankment. ▪ 500m² works on pipe trenches. ▪ 8000m² access to wall ▪ Expansion of concrete intake tower to a 5-meters x 5 meters structure and provide concrete intake tower bridge. ▪ Building of temporary coffer dam around intake tower to create safe working space. ▪ 0.14ha of rubble masonry to line the river return channel to rehabilitate donga erosion. ▪ 0.08ha to construct a 1.2m high concrete barrier along both sides of the donga, start from spillway, ending before the river connection point. ▪ 70m² Pedestrian bridge <p>The rehabilitation works will be conducted within a watercourse (tributary of Thulandziteka River, artificial seep wetland and Channelled Valley Bottom wetland), an area identified as an Aquatic Critical Biodiversity Area by the 2020 Ehlanzeni Bioregional Plan.</p> <p>The site establishment area is also located 10-25 meters from a drainage line. The overall site falls within the Protected Area Expansion Strategy 'Priority Focus Area'.</p>	<p>Rehabilitation Works</p> <p>S 24°41'34.24" (RW1)</p> <p>E 31° 1'30.85</p> <p>S 24°41'36.99 (RW2)</p> <p>E 31° 1'33.24"</p> <p>S 24°41'39.94" (RW3.1)</p> <p>E 31° 1'33.95"</p> <p>S 24°41'39.39" (RW3.2)</p> <p>E 31° 1'34.69"</p> <p>S 24°41 '34.82 (RW4)</p> <p>E 31°1 '36.09"</p> <p>S 24°41 '33.52 (RW5)</p> <p>E 31°1 '35.17"</p> <p>S 24°41 '32.38 (RW6)</p> <p>E 31°1 '37.04"</p> <p>S 24°41 '28.08 (RW7)</p> <p>E 31°1 '37.75"</p> <p>S 24°41 '26.68 (RW8)</p> <p>E 31°1 '37.42"</p> <p>S 24°41 '26.67 (RW9)</p> <p>E 31°1 '36.90"</p> <p>S 24°41 '30.34 (RW10)</p> <p>E 31°1 '36.65"</p> <p>Site establishment area</p> <p>S 24°41 '18.78 (SE1)</p> <p>E 31°1 '38.70"</p> <p>S 24°41 '20.40 (SE2)</p> <p>E 31°1 '34.07"</p> <p>S 24°41 '25.06 (SE3)</p> <p>E 31°1 '36.76"</p>