COMMENTS AND RESPONSE REPORT II (SCOPING PHASE)

This Comments and Response Report reflects the comments submitted in writing from **10 March 2010 until 12 April 2010** during the Scoping Phase of the proposed project. A total of two submissions were received and have been summarised and responded to below.

List of submissions:

No.	Name	Organisation	Date Received	Method
1	M Lesley	South African Heritage Resources Association (SAHRA)	23/03/2010	Letter
2	N Meulenbeld	Department of Water Affairs (DWA)	01/04/2010	Letter

Comments and reponses:

No.	Name and	Date	Issue	Response
	Organisation	Received		
1.1		23/03/2010	In terms of the National Heritage Resources Act, No. 25 of 1999, heritage resources, including archaeological or palaeontological sites over 100 years old, graves older than 60 years, structures older than 60 years are protected. They may not be disturbed without a permit from the relevant heritage resources authority. This means that before such sites are disturbed by development it is incumbent on the developer (or mine) to ensure that a Heritage Impact Assessment is done. This must include the archaeological component (Phase 1) and any other applicable heritage components. Appropriate (Phase 2) mitigation, which involves recording, sampling and dating sites that are destroyed, must be done as required. In your application received by SAHRA there was no indication of an assessment of the archaeological resources. The quickest process to follow for the archaeological component is to contract an accredited specialist (see www.asapa.prg.za for CRM practitioners) to provide a Phase 1 Archaeological Impact Assessment	This is noted. A heritage specialist, Johnny van Schalkwyk, has been appointed to undertake a Phase 1 Heritage Impact Assessment. Please see Section 4.4.2 of the Final Scoping report (FSR) for more details.

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			Report. This must be done before any development takes place.	
			The Phase 1 Impact Assessment Report will identify the archaeological sites and assess their significance. It should also make recommendations (as indicated in section 38) about the process to be followed, For example, there may need to be a mitigation phase (Phase 2) where the specialist will collect or excavate material and date the site. At the end of the process the heritage authority may give permission for destruction of the sites.	
1.2	M Lesley, SAHRA		Where bedrock is to be affected, or where there are coastal sediments, or marine or river terraces and in potentially fossiliferous superficial deposits, a Paleaontological Desk Top study must be undertaken to assess whether or not the development will impact upon palaeontological resources — or at least a letter of exemption from a Palaeontologists is needed to indicate that this is unnecessary. If there area is deemed to be senstive, a full Phase 1 Palaeontological Impact Assessment will be required and if necessary a Phase 2 rescue operation might be necessary (see attached list of accredited Palaeontologists).	While the boreholes will be located through bedrock these boreholes are very narrow (approximately 254 mm diameter). Bedrock will not otherwise be affected.
1.3	M Lesley, SAHRA		If the property is very small or disturbed and there is no significant site the specialist may choose to send a letter to the heritage authority to indicate that there is no necessity for any further assessment. Any other heritage resources that may be impacted such as built structures over 60 years old, sites of cultural significance associated with oral histories, burial grounds and graves, graves of victims of conflict, and cultural	Noted.

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			landscapes or viewscapes must also be assessed.	
			Attached please find a list of accredited archaeological	
			and paleaontological specialists who may be contacted to	
			undertake the necessary archaeological or	
2.1	N Meulenbeld,		palaeontological impact assessments. The project will be subject to various water use licensing	This is noted. An Integrated Water Use License
2.1	DWA		(Pages 16, 17) under the National Water Act, 1998 (No.	Application (IWULA) will be submitted to DWA. Studies
	DVV		36 of 1998) pertaining to groundwater abstraction and	are currently being undertaken by Aurecon
			use in the power station (Section 21a), pipeline crossings	(Geohydrological Assessment (including
			over watercourses (Sections 21c&i), potential discharge	geohydrological modelling), Surface Hydrology
			of cleaned water into streams (Sections 21f&i), etc.	Assessment and Salt and Water Balance) and GHT
				(geohydrological study) to inform the IWULA, and these
			The groundwater component (pages 35, 42) of the	will incorporate the requirements noted.
			project needs to consider a thorough geophysical survey	
			(including CVES) so that palaeochannels, dolerite dykes	It shold be noted that an ash dump, and not an ash
			and sills, areas of deeper weathering, etc can be	dam, is operated at Tutuka Power Station
			appropriately determined. This will influence the placing	
			of boreholes and assist in pollution plume mapping. Chemical analysis of the borehole water shall include a	
			full spectrum of heavy metal analysis, including Cr ⁶⁺ as it	
			is a byproduct of the milling process. The adequate	
			disposal/treatment of heavy metals shall be discussed in	
			detail.	
			The water quality of the surface dam adjacent to the	
			north of the ash dams will be determined and the	
			potential existence of any pollution plume in that area. As	
			the ash dam is covering a natural stream, the pollution	
			load into this covered stream shall also be determined	
			through geophysical techniques and might require a	
			specific drilling program into this feature as its	
			geohydrological characteristics are different from the	

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			A hydrocensus of a 2 km radius is required to provide information on groundwater users, background water qualityies and quantities and the impact of a drawdown in water levels.	
2.2	N Meulenbeld,		Clarity to be provided about the end-use of the treated	Treated water would be used in the power station
	DWA		groundwater.	process. This would reduce the impact of the station's abstraction process of raw water from the system.