

Table 4.27: Summary of actual and anticipated water resource and water quality problems associated with mining operations and mineral processing activities in the Limpopo basin.

Sub-catchment	Gold Mines	Base Metal Mines	Smelters	Small-Scale Mining	Other
Ngotwane-Bonwapitse	-	-	-	-	• Mmamabula Colliery: minor, localized AMD
Lotsane	-	-	-	-	• Morupele-Moijabane Colliery: minor, localized AMD, TDS, pH
Motloutse	-	• Selibe-Phikwe: moderate Ni, Cu, TDS	• Selibe-Phikwe: minor Ni, Cu, TDS, SO ₄	-	• Bobonong Colliery: minor, localized AMD, pH, TDS
Shashe – Tuli	• Tati: minor As, CN, TDS • Gwanda and Lower Gwanda Greenstone belts: AMD, As, Bi, pH, TDS, CN	• Matsitama, Selkirk: minor Cu, Ni, TDS	• Valley Copper Smelter (long closed)	• Alluvial gold mining: TSS, Hg	• Noel (closed): minor TDS, Ni, Cu
Pazhi	-	-	-	-	• River Ranch: very minor TSS possible
Mzingwane	• Bulawayo, Filabusi and Gwanda greenstone belts: minor AMD, As, pH, TDS	• Epoch: moderate to high AMD, Co, Ni, metals	-	• Alluvial gold mining: moderate to high, but localized, TSS, Hg	-
Diti	-	-	-	-	• Minor TSS possible from prospecting
Bubye	-	-	-	-	-
Mwenezi	-	-	-	• Extensive small-scale chrome mining: TSS, Cr	• Extensive emeralds: possible TSS
Mkgadikgadi	-	-	-	-	• Minor TSS possible from prospecting
L. Limpopo-Chagane	-	-	-	-	• Very minor, localized TSS possible from prospecting
Marico	-	• Zeerust, Marico, Nietverdiend chrome mines: moderate AMD, pH, TDS and hexavalent Cr possible	• Zeerust Chrome: minor hexavalent Cr possible	-	• Marico lead prospects: minor Pb, Zn, TSS • Minor TSS from quarry operations • Witkop Fluorspar: very minor F, TDS, TSS
Crocodile-Elands-Pienaars	• Rooiberg, Kwarriehoek (closed): AMD, pH, TDS possible, plus CN	• Silver Hills (closed): Pb, Ag • Rooiberg Copper (closed): Cu • Thabazimbi: Fe, Mn, TSS • All vanadium mines: moderate	• African Chrome (closed): hexavalent Cr, TDS • Impala Platinum: metals and TDS	-	• Sterkfontein: minor F • Minor alkalinity from limestone and dolomite quarries

Crocodile-Elands-Pienaars (Continued)		<ul style="list-style-type: none"> AMD, pH, TDS, Va All chrome mines: moderate AMD, pH, TDS and hexavalent Cr possible, also minor Zn All PGM mines: moderate to high AMD, pH, TDS and metals 	<ul style="list-style-type: none"> Rustenburg Platinum: metals and TDS 		<ul style="list-style-type: none"> Minor TSS and TDS from Premier Diamond Minor TSS from quarry operations and clay pits
Matlabas - Mokolo	-	-	<ul style="list-style-type: none"> Matimba Power Station: minor TDS Groot Geluk coking plant: minor TDS 	-	<ul style="list-style-type: none"> Groot Geluk Colliery: minor AMD, pH, TDS possible
Laphalala	-	<ul style="list-style-type: none"> Dorset (prospect): minor Pb Mooihoek (closed): minor Sn 	-	-	<ul style="list-style-type: none"> Minor TSS possible from prospecting
Theuniskloof	-	<ul style="list-style-type: none"> Rooikoppie (prospect): very minor Fe, Mn 	-	-	<ul style="list-style-type: none"> Minor TSS possible from prospecting
Mogalakwena	<ul style="list-style-type: none"> Zandrivier: very minor CN, AMD, pH, TDS 	<ul style="list-style-type: none"> Potgietersrus Plat.: minor AMD, pH, TDS possible 	<ul style="list-style-type: none"> Potgietersrus: minor AMD and metals possible 	-	<ul style="list-style-type: none"> Union Tin (closed): minor Sn, Sb possible Minor TSS possible from prospecting and quarrying
Setoka-Soutsloot	-	-	-	-	<ul style="list-style-type: none"> Minor TSS possible from prospecting Venetia: minor TSS possible
Sand	-	-	-	<ul style="list-style-type: none"> Mongata, Kolkbank: minor TSS, Hg, TDS 	<ul style="list-style-type: none"> Messina Copper (closed): minor Cu, Ni, Zn possible Minor TSS possible from quarrying Soutpansberg Salt: minor TDS possible
Nzhelele	-	-	-	-	<ul style="list-style-type: none"> Limpopo (closed): minor Pb, Ni possible
Levuvhu	-	-	-	-	<ul style="list-style-type: none"> Nyala: minor TSS Tshikondeni Colliery: minor AMD, pH, TDS possible