

KANGRA COAL (PTY) LTD – BALLENGEICH COLLIERY

Section 21 Water Uses Schedule | Rev 4 — Updated: June 2026

Legend / Key to Shading

Water Uses Table

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
SECTION 21 (c) AND (i) – Impeding or Diverting the Flow of Water in a Watercourse					
1 – (c&i)	Impeding and diverting the natural flow	Discard Dump pit within 500m regulated wetland buffer area	12.2 ha	Portion 19	27°53'27.78"S 29°58'17.29"E
2 – (c&i)	Impeding and diverting the natural flow	Stormwater Management Complex — integrated dirty and clean water separation infrastructure associated with the discard dump rehabilitation and siding operations. Includes: discard dump toe platform, grass-lined V-drains on the rehabilitated dump surface, concrete-lined dirty water channels, and associated silt traps. All infrastructure is located within the 500 m regulated wetland buffer area and within the 1:100-year floodline.	367,500 m³ <i>(combined PCDs 1–8 and West Decant Sump). See Items 5.1–5.8 for individual PCD capacities.</i>	Portion 19	Start: 27°53'25.39"S 29°58'6.49"E End: 27°53'25.19"S 29°58'40.44"E
3 – (c&i)	Impeding and diverting the natural flow	Old opencast area within 500m regulated wetland buffer area and within 100m of NFEPA River buffer.	43 200 m³/a	Portion 19	27°53'13.68"S 29°58'14.52"E
4 – (c&i)	Impeding and diverting the natural flow	The Oxidation Pond is part of passive wetland treatment process and situated within a current wetland and within 100m of NFEPA River buffer.	0.4 ha	Portion 25	27°53'25.08"S 29°57'48.32"E
5.1 – (c&i)	Impeding and diverting the natural flow	PCD 1 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	31,650 m²; 62,300 m³	Portion 19	27°53'18.51"S 29°58'29.89"E
5.2 – (c&i)	Impeding and diverting the natural flow	PCD 2 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	10,010 m²; 20,400 m³	Portion 19	27°53'21.55"S 29°58'35.71"E
5.3 – (c&i)	Impeding and diverting the natural flow	PCD 3 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner	7,090 m²; 15,500 m³	Portion 19	27°53'25.39"S 29°58'38.07"E
5.4 – (c&i)	Impeding and diverting the natural flow	PCD 4 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,800 m²; 6,800 m³	Portion 19	27°53'28.28"S 29°58'37.38"E

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
5.4.1 – (c&i)	Impeding and diverting the natural flow	PCD 4 Silt Trap — inlet silt trap associated with PCD 4, located within the 500 m regulated wetland buffer area. Designed to capture sediment-laden stormwater runoff from an 8.8 ha catchment before discharge into PCD 4. Calculated total length: 16.2 m; overflow width: 4.5 m; depth below FSL: 1.5 m; cleaning interval: 28 days.	109 m³ 14.9 m³ per 28-day interval	Portion 19	27°53'28.28"S 29°58'37.38"E
5.5 – (c&i)	Impeding and diverting the natural flow	PCD 5 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	11,600 m²; 20,900 m³	Portion 19	27°53'22.59"S 29°58'31.31"E
5.6 – (c&i)	Impeding and diverting the natural flow	PCD 6 (Old Horn River Dam) within 500m regulated wetland buffer area. Largest on-site PCD. Existing unlined. Retained as regular dam — GN 704 Reg. 4 exemption applied.	45,900 m²; 143,700 m³	Portion 19	27°53'28.54"S 29°58'31.90"E
5.7 – (c&i)	Impeding and diverting the natural flow	PCD 7 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,700 m²; 5,600 m³	Portion 19	27°53'34.07"S 29°57'59.87"E
5.8 – (c&i)	Impeding and diverting the natural flow	PCD 8 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,000 m²; 5,600 m³	Portion 19	27°53'33.35"S 29°58'1.97"E
6 – (c&i)	Impeding and diverting the natural flow	Successive Alkaline Producing System (SAPS) used during passive wetland treatment. Located within a wetland system and within a 100m NFEPA River buffer.	1.2 ha	Portion 25	27°53'26.39"S 29°57'47.61"E
7 – (c&i)	Impeding and diverting the natural flow	Anoxic Limestone Drain (ALD 1) used to treat net-acidic, anoxic mine drainage of low to moderate flow. Located within a wetland system and within a 100m NFEPA River buffer.	Length = 420 m	Portion 25	Start: 27°53'33.43"S 29°57'41.38"E End: 27°53'27.63"S 29°57'52.17"E
8 – (c&i)	Impeding and diverting the natural flow	Anoxic Limestone Drain (ALD 2) used to treat net-acidic, anoxic mine drainage of low to moderate flow. Located within a wetland system and within a 100m NFEPA River buffer.	Length = 230 m	Portion 19	Start: 27°53'17.33"S 29°58'1.35"E End: 27°53'12.99"S 29°58'8.95"E

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
9 – (c&i)	Impeding and diverting the natural flow	Aerobic Wetland 1 collects AMD water and provides time for metals and sediments to precipitate. Located within a wetland system and within a 100m NFEPA River buffer.	1.3 ha	Portion 25	27°53'23.00"S 29°57'49.07"E
10 – (c&i)	Impeding and diverting the natural flow	Aerobic Wetland 2 collects AMD water and provides time for metals and sediments to precipitate. Located within a wetland system and within a 100m NFEPA River buffer.	4.4 ha	Portion 19	Start: 27°53'16.64"S 29°58'1.01"E End: 27°53'6.79"S 29°58'27.02"E
11 – (c&i)	Impeding and diverting the natural flow	West Decant PCD ensures that groundwater rebound and decant from mine openings take place in the form of surface water discharge. Located within 500m regulated wetland buffer area.	32,700 m²; 86,400 m³	Portion 19	27°53'19.06"S 29°58'6.84"E
12 – (c&i)	Impeding and diverting the natural flow	Screening and Crushing plant area associated with Quantum's operations. Located within 500m of regulated wetland area.	2.93 ha	Portion 19	27°53'29.72"S 29°58'7.89"E
13.1 – (c&i)	Impeding and diverting the natural flow	Septic Tank 1 — grey water (Kangra/siding operations only). Quantum uses mobile toilets. Located within 500m of regulated wetland area.	10 000 L	Portion 19	27°53'31.03"S 29°58'5.70"E
13.2 – (c&i)	Impeding and diverting the natural flow	Septic Tank 2 — toilet waste (Kangra/siding operations only). Quantum uses mobile toilets. Located within 500m of regulated wetland area.	5 000 L	Portion 19	27°53'31.40"S 29°58'7.59"E
14 – (c&i)	Impeding and diverting the natural flow	New Quantum PCD — newly constructed pollution control dam (Class C HDPE-Clay composite liner; GNR 636) for stormwater/dirty water management at the Quantum operations area. Located within 500m regulated wetland buffer area.	1.8 ha 8,600 m³	Portion 19	27°53'27.65"S 29°58'0.59"E
15 – (c&i)	Impeding and diverting the natural flow	Sharp crested V-Drain weir located directly within the Horn River close to the Ngagane River confluence.	Flow: 8.3 Mm³/a	Portion 19	27°53'5.99"S 29°58'26.89"E 27°53'6.53"S 29°58'15.04"E)
16 – (c&i)	Impeding and diverting the natural flow; altering the bed, banks, course or characteristic of a watercourse	Riverbank and riparian rehabilitation along a significant portion of the Horn River on the northern and southern banks.	740 m	Portion 19	Start: 27°53'18.21"S 29°57'54.11"E End: 27°53'4.83"S

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
					29°58'30.03"E
17 – (c&i)	Impeding and diverting the natural flow	Siding & Coal stockpile at Ballengeich Siding within 500m regulated area.	540 000 tonnes/a	Portion 19	27°53'39.19"S 29°58'11.20"E
18 – (c&i)	Impeding and diverting the natural flow	Flood Protection Berms — Berm 1 along Horn River;	Berm 1	Portion 19	Berm 1 Start: 27°53'24.01"S 29°58'8.13"E End: 27°53'14.57"S 29°58'6.95"E
19 – (c&i)	Impeding and diverting the natural flow	Berm 2 along Ngagane River (western side of rail line).	Berm 2	Portion 19	Berm 2 Start: 27°53'33.96"S 29°58'28.68"E End: 27°53'18.21"S 29°58'26.36"E
20 – (c&i)	Impeding and diverting the natural flow	Emergency Spillway — overflow structure associated with the western PCD/dam, designed to discharge excess water during storm events. Located within 500m wetland buffer.	—	Portion 19	27°53'27.26"S 29°58'0.06"E
21	Impeding and diverting the natural flow	New Instream Flow Gauging Weir 2 — located in the Horn River downstream of passive treatment system. Used for flow measurement and compliance monitoring	Flow gauging structure	Portion 19	Start: 27°53'4.65"S 29°58'17.44"E End: 27°53'6.07"S 29°58'17.78"E
22	Impeding and diverting the natural flow	New Instream Flow Gauging Weir 1 — located in the Horn River downstream of passive treatment system. Used for flow measurement and compliance monitoring	Flow gauging structure	Portion 19	Start: 27°53'6.29"S 29°58'11.18"E End: 27°53'8.74"S 29°58'13.67"E

SECTION 21 (d) – Engaging in Stream Flow Reduction Activities

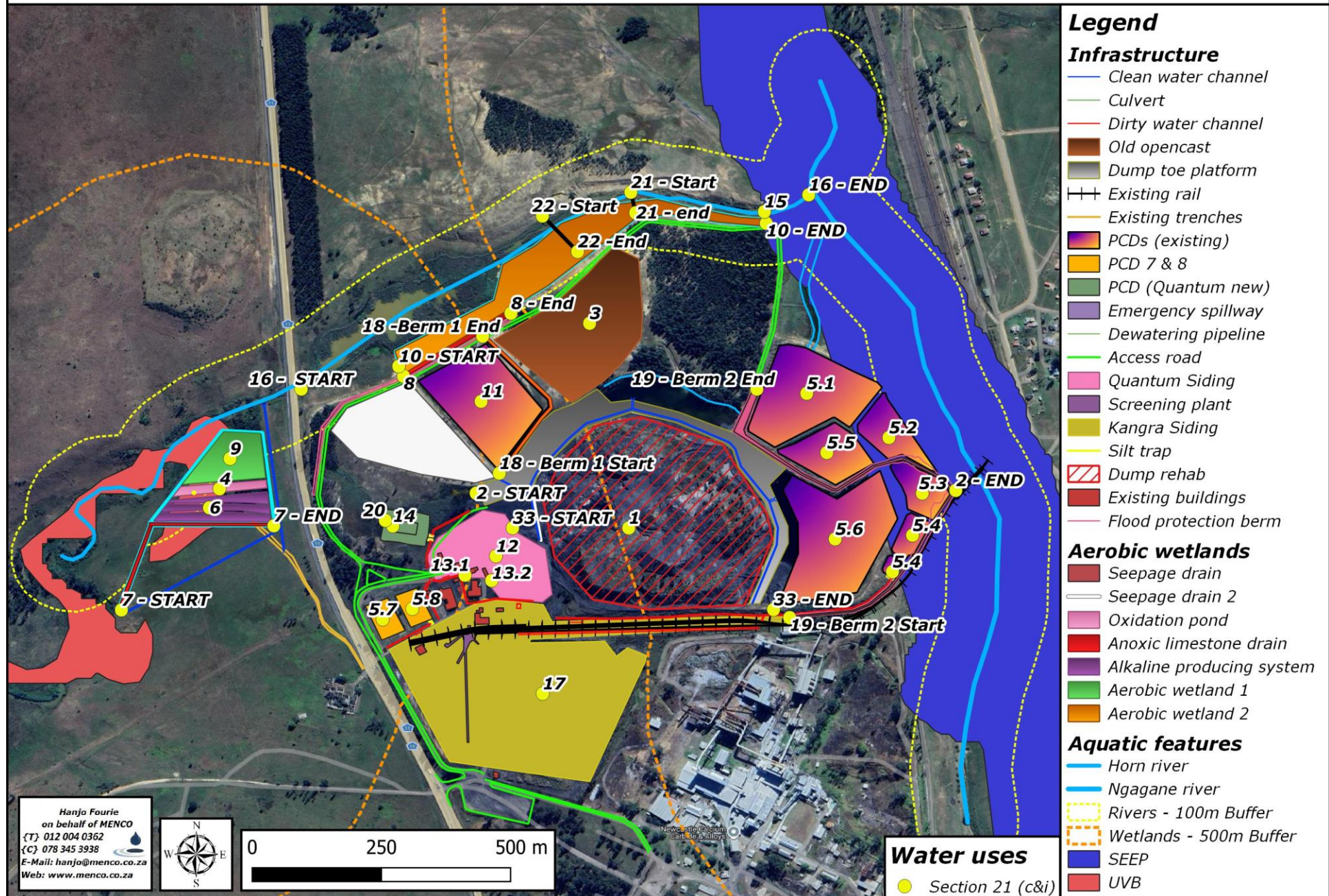
Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
23 – (d)	Engaging in stream flow reduction activity	Eucalyptus Tree Plantation — Category 1b invasive alien (GN R598, August 2014). AMD Decant Stream Flow Reduction	3.57 ha	Portion 19	27°53'21.91"S 29°58'1.27"E
SECTION 21 (f) – Discharging Waste or Water Containing Waste into a Watercourse					
24 – (f)	Discharging of effluent from mine related infrastructure into a watercourse	Aerobic Wetland 1 — final passive treatment step receiving treated AMD from the Bhekhani Passive Treatment Plant. Treated effluent discharges to Horn River. GN 1873 RQOs required within 12 months of commissioning.	1.3 ha Design Flow: 1,000m³/d Annual: 365,000m³	Portion 25	27°53'22.97"S 29°57'47.24"E
25 – (f)	Discharging of effluent from mine related infrastructure into a watercourse	Aerobic Wetland 2 collects AMD water and provides time for metals and sediments to precipitate. West decant sump and old opencast area contribute to these contaminated effluents.	4.4 ha Approximately 178–255 m³/day	Portion 19	Start: 27°53'16.77"S 29°58'1.12"E End: 27°53'6.78"S 29°58'27.02"E
26 – (f)	Discharging of effluent from mine related infrastructure into a watercourse	Overflow structures associated with lined PCDs and western dam — excess water discharges via overflow weirs during high rainfall events.	Overflow weirs <i>Intermittent storm event discharge only. Spill frequency <1 in 50 years (GN 704 compliant)</i>	Portion 19	27°53'15.27"S 29°58'30.30"E
SECTION 21 (g) – Disposing of Waste in a Manner Which May Detrimentially Impact on a Water Resource					
27 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Discard Dump within 500m regulated wetland buffer area. Active spontaneous combustion confirmed on northern face.	12.2 ha	Portion 19	27°53'27.78"S 29°58'17.29"E
28 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Old opencast area located close to the Horn River and within the regulated area. Mining material remnants continue to leach AMD into the system.	43 200 m³/a	Portion 19	27°53'13.68"S 29°58'14.52"E
29.1 – (g)	Disposing of waste in a manner which may	PCD 1 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	31,650 m²; 62,300 m³	Portion 19	27°53'18.51"S 29°58'29.89"E

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m ³ , tonnes and/or m ³ /annum)	Property Description	Co-ordinates
	detrimentally impact on a water resource.				
29.2 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 2 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	10,010 m ² ; 20,400 m ³	Portion 19	27°53'21.55"S 29°58'35.71"E
29.3 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 3 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner	7,090 m ² ; 15,500 m ³	Portion 19	27°53'25.39"S 29°58'38.07"E
29.4 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 4 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,800 m ² ; 6,800 m ³	Portion 19	27°53'28.28"S 29°58'37.38"E
29.4.1 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 4 Silt Trap — inlet silt trap associated with PCD 4. Captures and retains sediment-laden stormwater from an 8.8 ha catchment. Accumulated sediment (14.9 m ³ per 28-day cleaning interval) to be characterised and managed per GNR 635. Located within 500 m regulated wetland buffer area.	109 m ³ silt volume 14.9 m ³ per cleaning cycle	Portion 19	27°53'28.28"S 29°58'37.38"E
29.5 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 5 within 500m regulated wetland buffer area. Existing unlined earth dam. Retained as regular dam — GN 704 Reg. 4 exemption applied.	11,600 m ² ; 20,900 m ³	Portion 19	27°53'22.59"S 29°58'31.31"E
29.6 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 6 (Old Horn River Dam) within 500m regulated wetland buffer area. Largest on-site PCD. Existing unlined. Retained as regular dam — GN 704 Reg. 4 exemption applied.	45,900 m ² ; 143,700 m ³	Portion 19	27°53'28.54"S 29°58'31.90"E
29.7 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	PCD 7 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,700 m ² ; 5,600 m ³	Portion 19	27°53'34.07"S 29°57'59.87"E
29.8 – (g)	Disposing of waste in a manner which may	PCD 8 within 500m regulated wetland buffer area. To be upgraded with Class C HDPE-Clay composite liner (GNR 636).	3,000 m ² ; 5,600 m ³	Portion 19	27°53'33.35"S 29°58'1.97"E

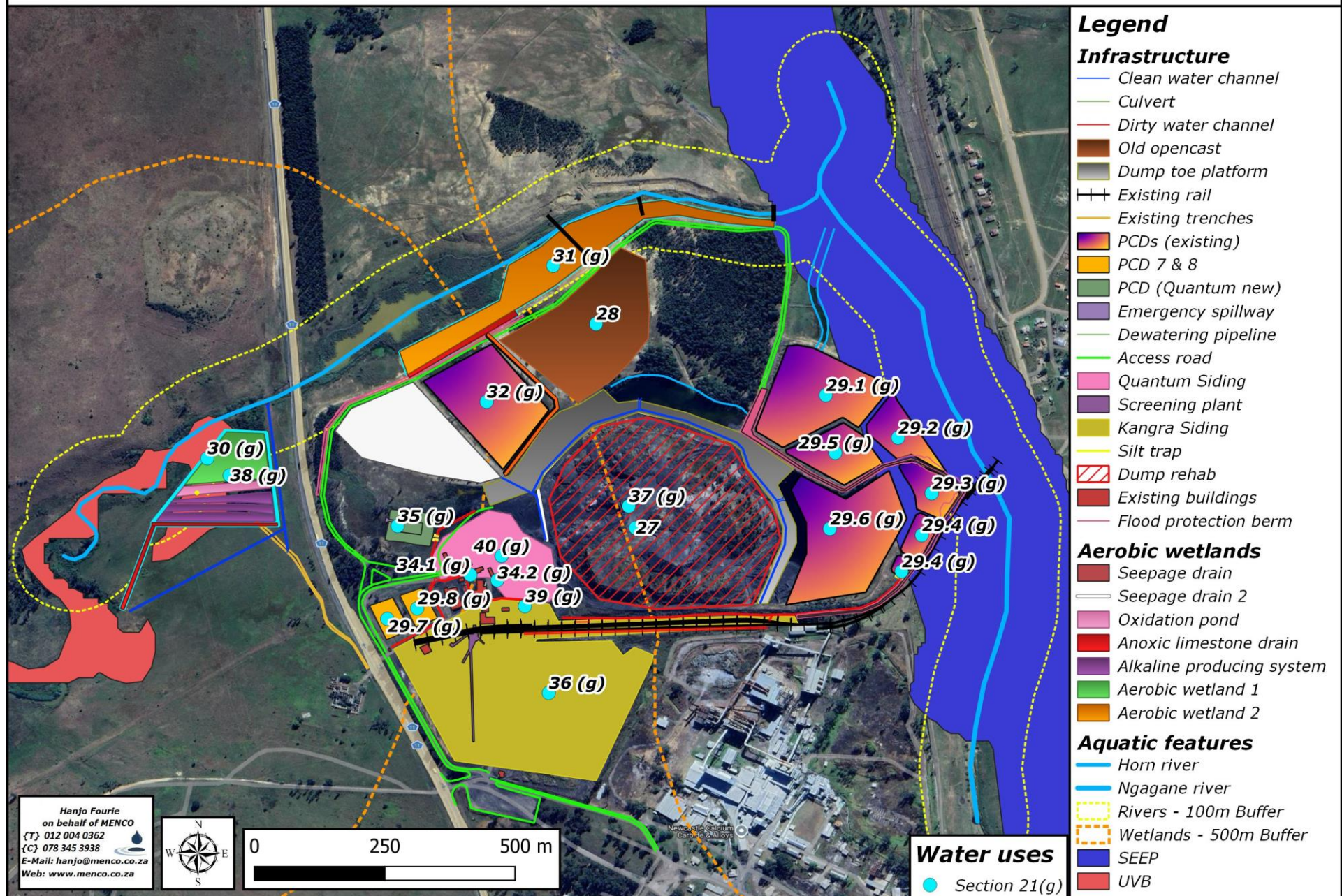
Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
	detrimentally impact on a water resource.				
30 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Aerobic Wetland 1 collects AMD water and provides time for metals and sediments to precipitate. Iron hydroxide sludge accumulates — characterised per GNR 635 annually.	1.3 ha Iron hydroxide sludge accumulation approximately 50–100 mm/yr. Desludging every 5–7 years via scour valve.	Portion 25	27°53'22.97"S 29°57'47.24"E
31 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Aerobic Wetland 2 collects AMD water and provides time for metals and sediments to precipitate. Same sludge management obligations as Item 30.	4.4 ha Approximately 178–255 m³/day	Portion 19	27°53'9.66"S 29°58'11.51"E
32 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	West Decant PCD. — receives AMD decant from underground workings via existing surface drainage.	32,700 m²; 86,400 m³	Portion 19Di	27°53'19.06"S 29°58'6.84"E
33 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Quantum Operations Screening, Crushing and Stockpile area. Dirty footprint — full operational area inclusive of screening plant, crusher, coal stockpiles and associated hardstand	2.93 ha	Portion 19	27°53'29.72"S 29°58'7.89"E
34.1 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Septic Tank 1 — Sewage storage (Kangra/siding operations only). Quantum uses mobile toilets.	10 000 L	Portion 19	27°53'31.03"S 29°58'5.70"E
34.2 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Septic Tank 2 — Sewage storage (Kangra/siding operations only). Quantum uses mobile toilets.	5 000 L	Portion 19	27°53'31.40"S 29°58'7.59"E

Water Use Number	Water use(s)	Purpose	Capacity / Volume (m³, tonnes and/or m³/annum)	Property Description	Co-ordinates
35 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Quantum PCD — disposal of dirty stormwater into a water containment facility. (New Quantum PCD).	1.8 ha 8,600 m³	Portion 19	27°53'27.65"S 29°58'0.59"E
36 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Kangra Siding & Coal stockpile at Ballengeich Siding. 15-year operational life at 95,000 t/month.	540 000 tonnes/a	Portion 19	27°53'39.19"S 29°58'11.20"E
37 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Dirty water from PCDs used for dust suppression. (Haul Roads, Discard Dump, Siding)	38,400 m³/a	Portion 19	27°53'26.28"S 29°58'16.82"E
38 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Passive Treatment Plant (Bhekhani) — treated/partially-treated AMD disposal from passive treatment infrastructure. Iron hydroxide sludge classified per GNR 635.	1,000 m³/day. Iron hydroxide sludge precipitate generated	Portion 25	27°53'24.16"S 29°57'48.81"E
39 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Wash Bay — wash bay generates oily/contaminated wash water collected via silt and oil traps → dirty channel → New Quantum PCD.	5,000 L/day (150 m³/month)	Portion 19	27°53'33.19"S 29°58'9.53"E
40 – (g)	Disposing of waste in a manner which may detrimentally impact on a water resource.	Quantum Diesel Storage — 2,500 L fully bunded diesel tank on site.	2,500 L (fully bunded)	Portion 19	27°53'29.72"S 29°58'7.89"E
SECTION 21 (j) – Removing, Discharging or Disposing of Water Found Underground					
41 – (j)	Removing, discharging or disposing of water found underground if it is necessary for the efficient continuation of an activity or for the safety of the people.	Seepage Dewatering Pipeline — 110mm subsoil drainage pipes collect seepage from discard dump toe, discharge to manholes and pump to lined PCDs 3 and 4. Scenario 1 (dump rehabilitated) only.	Subsoil pipe perimeter; pipeline ~200m to PCDs	Portion 19	27°53'24.10"S 29°58'26.19"E

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