

Appendix F - TEPs Authorising Discharge of Mine Affected Water

Current at 1pm, 9 Mar 2011

DERM has approved 58 applications for TEPs for mines since 1 December 2010. These include 42 new applications and 16 amendments to existing TEPs

A further 8 applications are currently under assessment and DERM has been notified by companies that one is critical to mining operations. Two are applications (or amendment applications) from mines with an existing TEP, six are applications from coal mines without an existing TEP.

Three CSG operations have had TEPs approved since 1 December 2010, and a further four are currently undergoing assessment.

Mine TEPs approved since 1 December 2010

Mine	Issue date	End date	Purpose
Rolleston	28 Oct 2010 (amended 1 Feb 2011)	30 June 2011	Water Management: TEP allows mine-affected water to be released to avoid the potential for uncontrolled release during the wet season. Authorised release is outside current EA conditions. TEP amended to extend timeframe to allow continuation of release.
	23 Feb 11	29 Aug 2011	Water Management: TEP allows for the release of mine-affected water from an additional discharge point into Meteor Creek, via Sandy Creek.
Ensham	10 Dec 2010 (amended 5 Jan 2011) (Amended 11 Feb 2011)	30 Jun 2011	Water Management: TEP allows for the release of approximately 15,000 megalitres, at about 250 megalitres per day, to dewater open cut mine pits on site. TEP amendment allows an increase EC limits, revised receiving water flow rate, and modified discharge locations. The revised TEP conditions require continued meeting of dilution (50:1) in the receiving water.
Poitrel	15 Dec 2010 (amended on 19 Jan 2011) (Amended on 11 Feb 2011)	30 Jun 2011	Water Management: TEP authorises release of water when the receiving water flow rate is lower than current EA requirements, provided there is significant flow in downstream waters of the Isaacs River. Water quality is within EA limits. The amendment authorises the release of water with elevated EC to no flow in New Chum Creek. The 11 February amendment allows for the release of water with elevated EC into New Chum Creek with downstream monitoring and flow triggers in the Isaac River.
Isaac Plains	18 Dec 2010 (amended on 17 Jan 2011)	30 Jun 2011	Water Management: TEP allows the release of water from the operational mining pit. Good quality water being discharged and this will be monitored closely to ensure quality is maintained downstream. Authorises the release of water from an additional release point and allows for releases into no flow in the Isaac River.
South Walker	18 Dec 2010 (amended 20 Jan 2011) (amended 9 Feb 2011) (amended 15 Feb 2011)	30 Jun 2011	Water Management: TEP allows the release of excess water, stored on site as a result of recent rain. The water to be released contains elevated electrical conductivity. The TEP will ensure water is only released during time of high flow in receiving waters to ensure adequate dilution is achieved. Amendment allows for discharge of up to 2500uS/cm to Walker Creek during low flow. This latest amended TEP allows for the release of water with elevated electrical conductivity to Walker Creek with an amended downstream EC trigger of 1000uS/cm in Bee Creek The amendment of 15 Feb allows for the release of water with elevated EC levels from Bee Creek into Sandy Creek. These releases will be consistent with the amended TEP issued on 9 February for releases into Walker Creek.

Mine	Issue date	End date	Purpose
	27 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of excess water with elevated EC to Sandy Ck with a reduction in the receiving water flow rate. Downstream monitoring is required.
Cook	24 Dec 2010	30 Jun 2011	Water Management: TEP authorises the release of water with Electrical Conductivity and Turbidity limits above those authorised in the current EA. Downstream monitoring is required with downstream water quality triggers.
Callide	24 Dec 2010	30 Jun 2011	Water Management: TEP authorises the release of water with Electrical Conductivity limits above those authorised by the current EA, provided there is adequate flow in the receiving waters to dilute levels to near background immediately downstream of the release. Downstream monitoring is required with downstream water quality triggers.
	11 Feb 2011	29 Jul 2011	TEP authorises discharge of mine affected water from Lake Gasteen discharge location into Callide Creek at low or no flow conditions. EC limits vary depending on receiving water flow rates.
	25 Feb 2011	15 Jun 2011	Water Management: TEP authorises the release of mine affected water, with higher EC levels, into Oaky Creek from an authorised discharge location. Allows releases to no flow.
Moranbah North	24 Dec 2010	30 Jun 2011	Water Management: Electrical Conductivity authorises the release of water with Electrical Conductivity limits above those authorised by the current EA, provided there is adequate flow in the receiving water of the Isaac River. Downstream monitoring is required with downstream water quality triggers.
	24 Dec 2010 (amendment of TEP approved August 2010)	30 Jun 2011	
Minerva	24 Dec 2010	30 Jun 2011	Water Management: TEP authorises the release of water when the receiving water flow rate is lower than current EA requirements. Water quality is higher than EA limits for conductivity. Downstream monitoring is required with downstream water quality triggers.
	(amended 10 Feb 2011)		Amended TEP authorises the release of water with elevated EC levels into Sandhurst Creek with downstream monitoring and flow triggers.
	(Amended 24 Feb 11)		Amended TEP on 24 February allows for changes to the downstream flow monitoring control point from the department's Duck Ponds gauge to the Comet Weir gauge. Allows for water discharge to continue at a lower rate when the flow in the Comet River falls below 5 cumecs
Kestral	24 Dec 2010	30 Jun 2011	Water Management: TEP authorises the release of water when the receiving water flow rate is lower than current EA requirements. Water quality is higher than EA limits for conductivity. Downstream monitoring is required with downstream water quality triggers.
Carborough Downs	24 Dec 2010	30 Jun 2011	Water Management: TEP authorises the release of water when the receiving water flow rate is lower than current EA requirements, with increased dilution of releases. Water quality is higher than EA limits for conductivity. Downstream monitoring is required with downstream water quality triggers.
Burton	13 Jan 2011	31 May 2011	Water Management: TEP authorises the discharge of mine affected water of higher electrical conductivity, though a maximum downstream conductivity will be achieved through only discharging at a minimum flow in the receiving waters.
	8 Feb 2011	30 June 2011	Water Management: TEP authorises the release of water with higher electrical conductivity from the northern part of the operation (Void) to receiving waters including the Isaac River. Downstream monitoring is required with downstream water quality triggers.

Mine	Issue date	End date	Purpose
Peak Downs	13 Jan 2011 (Amended on 1 Mar 2011)	30 Jun 2011	Water Management: TEP authorises a discharge at a higher electrical conductivity and a lower minimum flow in receiving waters, though it also contains maximum limits for electrical conductivity in receiving waters that flows will have to be controlled to meet these limits. Amendment allows for releases Ripstone Creek and requires a flow trigger in the Isaac River during releases to the creek.
Dawson South	13 Jan 2011	30 Jun 2011	Water Management: TEP authorises a discharge at a higher electrical conductivity (EC). Downstream monitoring is required.
Lake Lindsay	14 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of water with elevated EC and with reduced flow in receiving waters.
German Creek – Oak Park	14 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of water with elevated EC and a reduction in the receiving water flow rate. Downstream monitoring is required. Referred to as “Oak Park” TEP
Goonyella Riverside	19 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of water with elevated EC and a reduction in the receiving water flow rate. Downstream monitoring required.
German Creek	20 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of water with elevated EC and a reduction in the receiving water flow rate. Downstream monitoring required. Referred to as “German Creek” TEP
Saraji	27 Jan 2011 (Amended 18 Feb 2011)	30 Jun 2011	Water Management: TEP authorises the release of excess water with elevated EC to Phillips Ck and Hughes Ck with a reduction in the receiving water flow rate. Downstream monitoring is required. Amended TEP authorises releases with elevated EC levels that are dependent on downstream flow triggers. Downstream monitoring required.
Millenium	28 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of excess water with elevated EC to New Chum Ck with a reduction in the receiving water flow rate. Downstream monitoring is required.
Hail Creek	29 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of mine affected water through additional discharge points and reduced flow in receiving waters.
Lake Vermont	29 Jan 2011	30 Jun 2011	Water Management: TEP authorises the release of mine affected water to Carfax Gully with no natural flow and a reduction in flow in the Issac River.
Newlands	23 Dec 2011 (amended on 28 Jan 2011)	30 Jun 2011	Water Management: TEP authorises the release of excess water with elevated EC and a reduction in the receiving water flow rate. Downstream monitoring is required. Amendment authorised new discharge points and reduced flow in receiving waters. Also increased downstream monitoring requirements.
Sonoma	7 Jan 2011 (Amended 24 Feb 11)	1 Jun 2011	Water Management: TEP authorises the release of excess water with elevated EC. Downstream monitoring is required. TEP amendment of 24 February authorises the release of water with elevated EC.
Kogan Creek	11 Jan 2011	29 Apr 2011	Water Management: TEP authorises the release of mine affected water (above existing TSS licence limits) to enable access to coal reserves to ensure coal supply to Kogan Creek Power Station.
Texas Silver	24 Jan 2011	30 Apr 2011	Water Management: TEP authorises the release from stormwater water pond to enable completion of construction and lining of dam.
Western Creek Coal	1 Feb 2011		Water Management. TEP authorises discharge of captured flood water from extraction pit at a higher electrical conductivity. (1500 us/cm as opposed to background + 15% of offsite gully) Monitoring required along discharge path and downstream.

Mine	Issue date	End date	Purpose
Baralaba	8-Feb-11	29 Jul 2011	Water Management: TEP authorises the release of mine affected water to the Dawson River from an inundated mine pit. Water quality is in accordance with Baralaba's Environmental Authority (EA).
Yarrabee	10 Feb 2011	30 Jun 2011	Water Management: TEP authorises the release of water with elevated electrical conductivity to 12 Mile Creek. Monitoring of receiving waters is also required in the Mackenzie River.
Red Mountain Joint Venture	11 Feb 2011	31 July 2011	Water Management: TEP authorises the release of water with elevated EC levels into New Chum Creek. Downstream flow triggers and dilution is required.
Jellinbah	11 Feb 2011	30 July 2011	Water Management: TEP authorises release of mine affected water with elevated EC to Blackwater Creek
Norwich Park	11 Feb 2011	30 July 2011	Water Management: TEP allows the release of mine affected water with elevated EC.
Boonal J/V	14 Feb 2011	30 June 2011	Water Management: TEP authorises the release of water from the Boonal loadout facility to Bullock Creek.
Thalanga Copper Mine	18 Feb 2011	Jan 2014	Water Management: TEP authorises releases from east evaporation pond whilst the company undertakes studies and site changes to remove contamination and reduce catchment size.
Dawson	18 Feb 2011	30 June 2011	Water Management: TEP authorises the release of up to 75ML/day with elevated EC into Kianga Creek at low and no flow conditions.
Blackwater	18 Feb 2011	1 July 2011	Water Management: TEP authorises the release of water with elevated EC to New Deep Creek with low flow in receiving water.
Mt Rawdon	18 Feb 2011	30 November 2011	Water Management:: TEP authorises dams below the waste rock dump and the tailings dam to overflow rather than returning the water into the tailings storage facility
Gregory/Crinum	28 Feb 2011	30 Jun 2011	Allows for releases to low flow in Crinum Creek with downstream monitoring in Crinum Creek.

CSG TEPs approved since 1 December 2010

Operation	Issue date	End date	Purpose
Spring Gully	28 Dec 2010	25 Feb 2011	Water Management: NO discharges yet required. Discharge of RO brine if MRL reached or an engineering concern identified but only if 1:100 dilution, a base flow in creek equal to minor flood and mixing zone limits achieved.
Moranbah Gas Project (MGP)	4 Feb 2011	31 Mar 2011	Water Management: Discharge of CSG water to Isaac River only if dams 1, 2, 5 or 10 at MGP exceed target fill heights (
Daandine	18 Jan 2011	28 Feb 2011	Water Management: Discharge of RO permeate to flood flows – Wilkie Ck