Welcome termination of tens of megalites/day of 1100EC Springvale mine water to Coxs River and through the Gtr. Blue Mtns. World Heritage Area



Prev. Wallerawang Power Plant Springvale transfer pipeline capacity was 58ML/day (pg. 130, Vol 1, 2014 EIS)

Prev. Springvale mine Extension SDWTS pipeline capacity 30 existing + 20 proposed = 50ML/day (pg. 305, Vol 1, 2014 EIS)

Why is Springvale water transfer pipeline capacity so much less, at 42ML/day, than previous schemes? (pg. 5, DPE, Assmt. Rpt.)

Current Licenced Discharge Point limits

- LDP001 Springvale = 10ML/day (can be mine water)
- LDP001 Angus Place = 2ML/day (mine water)
- LDP009 Springvale = 30ML/day (mine water)
 TOTAL = 42ML/day licenced max.

= raw water transfer proposal capacity

Are the other mine water LDPs, other than 009, going into the transfer pipe, or not? The PAC should make sure all mine water does.

CLARIFICATION:

 The Springvale Water Treatment SDWTS pipeline capacity off Newnes Plateau is 30 existing + 36 proposed = 66ML/day? (see figs. 5.2, 5.3, 12.1a in Vol 1, 2016 Water Transfer EIS that all show both pipelines as part of Springvale Mine)

So should the EIS not state that the capacity of the SDWTS to LDP009 when augmented by the additional pipeline will be 66ML/day? And what capacity should the transfer pipe be?



Proposed pipeline and road route descends through a gully between Clerestory Spurs 7 and 8 and then proposes to clear MU11, an endangered ecological community.



Other Puzzling Matters:

- Unexplained mine water:
 - 66 42 = 24ML/day unused capacity of pipes from Newnes Plateau.
 - So why is pipeline duplication necessary? What changed since the original duplication was removed from the Springvale mine in 2015 because Angus Place didn't proceed?
- <u>PLUS</u> the other LDPs: LDP001 Sv + LDP001 AP = 12ML/day max
 Total unexplained tableland mine water pipelines and LDP capacities = 36ML/day

EnergyAustralia's water licence

- EnergyAustralia must not take any water from the Coxs River, unless it has used all available mine water.
- Mt Piper Power Plant needs on average up to 40ML/day of coolant water.

Just how much mine water is there?



Mt Piper Power Plant can eliminate all mine water discharges We all hope!

Waste elimination constraints and opportunities

- Treat to 500EC (EA & EPA requirement);
- Mt Piper is a zero release plant no impact on Coxs River;
- Beneficial outcome will satisfy Sydney Water Cmt SEPP, unlike Coxs River discharge after treatment option. ...But only if it works!

Consent Condition sch 4, cdn 12 – to improves mine water treatment before discharge



 Tens of megalites/day of 1100EC
 Springvale mine water to Coxs River and through the Greater Blue Mountains World Heritage Area should receive better treatment.

Centennial Coal can well afford to install a temporary RO plant to fulfil its water quality undertakings.

Springvale – Western Coal Servs.





Coal Services Site is porous – underlain by shallow bord and pillar mines or has been open cut.

Water balance est. is that 50% of water inputs goes into groundwater.

Unsuitable for waste emplacement SSD 7592, Vol 2, App B pg 149

NOTE: localtion of groundwater and Wangcol Creek.

Entire project area subject to open-cut or bord and pillar coal mining.

Implications for pollution control of salinity are dire.

Non-point salinity pollution of Wangcol Creek is certain to increase unless groundwater intercepted.



Figure 5-27 Groundwater level cross sections

Springvale – Western Coal Servs.

Salt encrustation 250m north of LDP006 beside the Castlereagh Hwy 9/4/2016



Cooks Dam close to overflowing in Oct. 2016



Good idea not to add flows to LDP006



LDP006 Electrical Conductivity 2016

Recommendations Consent conditions to require:

- A lined REA and divert LDP006 to WTP;
- that all mine water from Springvale and Angus Place to be transferred, treated at the WTP and stored in Thompsons Creek off-line reservoir;
- the Snow Gum Ribbon Gum Grassy Woodland MU11 is protected; and
- An audit of mine water discharges to ensure SSD 16_7592 project is correctly sized.

Reject SSD 5594 Mod 2, and instead uphold Springvale Consent Condition sch 4, cdn 12.

