

Tarago Action Plan Routine Inspection Checklist

Date:	13-Jun-24	Ramboll and UGL RL Environmental
Start time:	10:00 AM	Representative completing inspection ¹ :
Finish time:	10:55 AM	
Weather: 1.5°C (-5.4 - 9.5 min to max), 15 km/h wind, 0 mm rain since 9AM, 65% humidity, (BOM) cloudy, 100% chance of no rain.		
Date and volume of maximum rainfall in a 24hr period since last inspection?		
Date:	06-Jun-24	
Max volume (mm) in 24hr period:	38.6 mm	
General Site Observations		
<u>Is airborne dust from site evident?</u>		
No airborne dust was visible (Photos 1 - 2).		
<u>Is sediment run-off evident that is not captured by sediment controls?</u>		
No sign of sediment run-off seen in surface water flowing off-site at southern culvert (Photo 3) and middle culvert (Photo 5). No evidence of sediment run-off from northern culvert with only pooled, no flowing, surface water observed (Photo 6).		
<u>Is surface water discharging from site?</u>		
Surface water was observed discharging from the site at the southern and middle culvert (Photos 3, 4, and 5). Pooled water was observed in multiple locations on site (Photos 6, 13 and 14). No other flowing surface water was observed onsite during the inspection.		
<u>Is there evidence of excavation or other works non-compliant with the Action Plan?</u>		
No		
<u>Other observations?</u>		
1. Damages observed in the concrete-capped stockpile during the last inspections were noted to have been fixed (Photo 17) during this inspection. 2. The geofabric silt curtain (sediment fencing) located upgradient of middle trainline culvert (Photo 12) was noted to have large sediment build up during previous and current inspections. Ramboll recommends the removal of the build up to ensure the sediment fencing remains undamaged and an adequate control. 3. Evidence of erosion noted upgradient of the southern most culvert in previous site inspections remains on site but in a stable condition (Photo 7). No evidence of sediment was observed in water flowing offsite at southern culvert during this site inspection. In addition, some minor erosion due to inadequate ground cover was also observed upgradient of the railway line, to the north of the middle culvert. Ramboll recommends replacing ground cover material (ballast) if further erosion occurs or sediment is visible in the downstream surface water. 4. Minor damage to sediment fencing to the north of the upgradient of the middle culvert was observed during previous inspections and remained the same during this inspection (Photo 13). Ramboll advises this be fixed. 5. Rock armour in drainage channel between southern and middle culverts appear to be in average condition (Photo 9). Ramboll recommends replacing or replenishing the armour in this drainage channel.		

¹Action Plan inspections must be completed by a UGL Representative suitably trained and experienced in application and management of erosion and sediment controls including stockpile management.

Section	Control	Inspection		Corrective Action
		Yes	No	
5.1	Is Exclusion Zone signage present as recommended on Figures 2a - 2e Appendix 1 to demarcate contamination in the rail formation and adjacent soils?	Yes (Photo 10 and 18)		
	Is Exclusion Zone signage undamaged?	Yes, exclusion zone signage appeared in good condition. One sign adjacent to the stockpile was slightly damaged during the inspection, but this was fixed by UGL personnel on site (Photo 16).		
	Are sediment controls present in/adjacent each rail culvert?	Yes, rock checks and rock armour observed upgradient of each culvert. Coir sediment control logs west of former Woodlawn siding and along cess drain feeding the south and middle culverts. Silt fencing between middle and northern culvert.		
	If sediment is present what is the estimated depth of sediment?	Minor sediment presents on-site (<5mm).		
	Are sediment controls still functional?	Yes. Sediment controls in place were in average to good condition and no sediment was observed migrating off site. Recommendations included in 'Other Observations' section.		
	Is the existing stockpile covered securely to prevent surface water infiltration?	Yes.		
	Are cracks present in the capping of the existing stockpile? If so record the width and length of cracks in written form and through photographs and consolidate with this checklist.	Yes, minor hairline cracking is present on the stockpile (Photo 19), these remain stable and are not expected to adversely affect cap competency in current condition.		
	Are there signs of erosion or sediment run-off on or relating to the existing stockpile? If so record in written form and through photographs and consolidate with this checklist.	No. No erosion of, or sediment from the stockpile was observed.		
	Are there signs of vegetation on the existing stockpile? If so record in written form and through photographs and consolidate with this checklist.	Yes, several small-medium sized weeds were identified growing out from the stockpile from previous inspections. These are not expected to affect stockpile capping effectiveness.		
7.3	Is geofabric marker layer visible beneath capping of the existing stockpile? If so record in written form and through photographs and consolidate with this checklist. If marker layer is visible rectification work is required.	No		
	Have any additional stockpiles of contaminated material been created?	No		
	Are additional stockpiles placed away from drainage lines, gutters, stormwater pits or inlets?	n/a no additional stockpiles		
	Are stockpiles covered securely to prevent surface water infiltration?	n/a no additional stockpiles		
	Are stockpiles positioned on level surfaces with construction of bunds to control water ingress / egress.	n/a no additional stockpiles		

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Photo 1: Picture at northern end of Tarago railway station platform facing south, no airborne dust visible.



Photo 2: Picture at northern end of Tarago railway station facing north, no airborne dust visible.

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Photo 3: Southern culvert downgradient of railway line with surface water flowing offsite. Surface water was light to dark grey with no-low turbidity.



Photo 4: Downgradient of middle culvert with flowing surface water. Surface water near culvert was light to dark grey with low to moderate turbidity.

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Photo 5: Downgradient of middle culvert facing south with surface water flowing off site at fence line. Surface water was slightly grey, clear, very low to no turbidity.



Photo 6: Downgradient of northernmost culvert with pooled surface water. Water was moderately turbid with slight brown to grey in colour. Not flowing off site to adjacent property.

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Photo 7: Southernmost culvert upgradient of the railway line. The erosion due to lack of ground cover observed during previous inspections is still present.



Photo 8: Southernmost culvert upgradient of the railway line. Sediment control coir logs in place and in good condition.

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Photo 9: Rock armoury in drainage channel between southern and middle culverts appear to be in average condition, with minor build up of vegetation and sediment.



Photo 10: Rock armoury and sediment coir logs adjacent to old rail siding in good condition. No surface water was observed.

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Photo 11: Rock armoury and sediment coir logs following drainage to upgradient of middle culvert in good condition with minor build-up of sediment



Photo 12: Upgradient of railway line to the north of the middle culvert. Sediment fencing in place with large build-up of sediment. Some minor erosion due to inadequate ground cover was observed.

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Photo 13: Previous inspections noted that the sediment fencing in drainage line north of middle culvert has some damage and needs to be replaced. No change was noted in this inspection.



Photo 14: Pooled surface water was found at multiple locations upgradient of the rail corridor in the northern portion of site. The water was light grey to light brown, moderately turbid, and not flowing offsite.

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Photo 15: Upgradient of northernmost culvert with no surface water. No sediment build up was noted on rock armoury.



Photo 16: The concrete-capped stockpile is in good condition with no evidence of erosion. One contamination sign on the southeastern corner was slightly damaged but fixed by UGL personnel on site. All other signs were intact and in good condition.

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Photo 17: Three locations of exposed geofabric layer marker on stockpile noted during previous inspections appeared to have been filled with cement.



Photo 18: Contaminated land signage in good conditions, placed at appropriate intervals along the site.

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Photo 19: Minor hairline cracking is present on the stockpile

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