Tarago Action Plan Routine Inspection Checklist

Date:	20-Feb-24	Ramboll and UGL RL Environmental Representative completing inspection[1]:	[redacted]
Start time:	9:11 AM		
Finish time:	9:46 AM		

Weather: (BOM)	17°C (15-23°C min to max), E 11 km/h wind, 98% humidity, 0 mm rain since 9am, 25% chain of 2mm rain, partly cloudy.

Date and volume of maximum rainfall in a 24hr period since last inspection?

Date:	6-Feb-24
Max volume (mm) in 24hr period:	41.8 mm

General Site Observations

Is airborne dust from site evident?

No airborne dust was visible (**Photos 1 - 2**).

Is sediment run-off evident that is not captured by sediment controls?

No sediment run-off seen in surface water flowing off-site at southern and middle culverts (**Photos 3 - 6**). No evidence of sediment run-off from northern culvert with no flowing surface water observed (**Photo 7**).

Is surface water discharging from site?

Surface water was observed discharging from the site at the southern and middle culvert (**Photos 3 - 6**). Surface water was observed between the middle and northern culvert pooled both onsite (**Photo 14**). No other flowing surface water was observed onsite during the inspection.

Is there evidence of excavation or other works non-compliant with the Action Plan?

No

Other observations?

1. The previous monthly site inspection in January identified several new locations where the marker layer was exposed. During this inspection, the exposure locations appear to have been covered with concrete (**Photo 16**). No further damages to the concrete capping of the stockpile were observed during this inspection (**Photo 17**).

2. The geofabric silt curtain (sediment fencing) located upgradient of middle trainline culvert (**Photo 15**) was noted to have large sediment build up. Ramboll recommends the removal of the build up to ensure the sediment fencing remains undamaged and an adequate control.

3. Evidence of erosion has been noted upgradient of the southern most culvert in multiple previous site inspections and remains on site but in a stable condition (**Photo 10**). No evidence of sediment was found in water flowing offsite at southern culvert during this site inspection. Ramboll recommends replacing ground cover material (ballast) if further erosion occurs or sediment is visible in the downstream surface water of the southern culvert.

[1]Action 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 (**Photos 1, 10 and 18)**		
	Is Exclusion Zone signage undamaged?	Yes, exclusion zone signage appeared in good condition		
	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 build up on silt fencing present on site (approximately 5 cm).		
	Are sediment controls still functional?	Yes. Sediment controls in place with some minor damages. Refer to 'additional observations' section points 2 and 3 for comment'.		
	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 (observed during an inspection 15/03/23), 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.		
	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. Several new exposed locations were identified during the previous January inspection. This inspection verified the locations have since been sealed. Refer to 'Other Observations' section for additional comments		
7.3	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 of Tarago railway station platform facing north east. No airborne dust visible.

Photo 2: Picture of Tarago railway station platform and rail line facing south west. No airborne dust visible.

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Site:	**Tarago, NSW**			
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Photo 3: Southern culvert downgradient of railway line with surface water flowing offsite. Surface water is clear with slight brown tint and low to no turbidity.

Photo 4: Southern culvert downgradient of site fence line with surface water flowing offsite. Surface water is clear with a slight brown tint and low to no turbidity.

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Photo 5: Downgradient of middle culvert with pooled surface water. Surface water was dark red/brown with minor turbidity.

Photo 6: Downgradient of middle culvert facing east with flowing surface water. Surface water across road causeway appeared clear with low turbidity and suspended solids.

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Photo 7: Downgradient of northernmost culvert with no surface water flowing off site. Soil was damp but no sediment build up was noted on nearby vegetation.

Photo 8: Southernmost culvert upgradient of the railway line with flowing surface water. Evidence of previous high surface water flow (build-up of vegetation debris).

Photo 9: Southernmost culvert upgradient of the railway line. Evidence of previous high surface water flow (build-up of vegetation debris). Sediment control coir logs in place and in good condition.

Photo 10: Southernmost culvert upgradient of the railway line. Evidence of erosion due to lack of ground cover. Only minor changes since previous inspection.

Photo 11: Upgradient of middle culvert. Sediment controls in place (coir logs and rock armoury in good condition).

Photo 12: Upgradient of middle culvert with slow flowing/pooled surface water. Surface water was clear with a dark red/brown tint and with no to low turbidity.

Photo 13: Upgradient of northernmost culvert with no surface water. No sediment build up was noted on rock armoury.

Photo 14: Surface water pooled upgradient of railway line. Sediment controls (coir logs, silt fencing and rock armoury) in place and adequate. Surface water was clear with low to no suspended solids.

Photo 15: Upgradient of railway line to the north of the middle culvert. Sediment fencing in place with large build-up of sediment.

Photo 16: Exposed geofabric layer marker on stockpile (identified during the January inspection) has since been filled in with concrete.

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Photo 17: Concrete capped stockpile. No new signs of exposure marker layer and erosion damage.

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