

Tarago Action Plan Routine Inspection Checklist

Date:	19-Oct-23	UGL RL Environmental Representative
Start time:	10:30 AM	completing inspection ¹ :
Finish time:	11:15 AM	[REDACTED]

Weather: 15.9°C, 2°C lowest temp, 16.5°C highest temp, 0mm of rain since 9am (19/10/23), (BOM) 26km/h highest wind gust, NNE 11km/h wind speed, 55% humidity

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

Date:	5-Sep-23	
Max volume (mm) in 24hr period:	11.4mm	

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. Minimal evidence of sediment was observed in pooled water on-site downgradient of the middle culvert (**Photo 4**), however there was no evidence of run-off of this water from site in between inspections (**Photos 5 - 6**). No evidence of sediment run-off past northern and southernmost rail culverts was visible (Photos 3, 7, 8, 13, 16).

Is surface water discharging from site?

Yes. Surface water was discharging at a slow rate from the southern culvert through a thick layer of grass (**Photo 3**). A small pool of water was observed on site and immediately downstream of middle culvert but not discharging off site (**Photos 4 - 6**). There was no surface water discharging at the northern culvert (**Photos 7 - 8**).

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

No

Other observations?

Regarding the stockpile, the previous site inspection (14/09/23) identified two new locations where the marker layer was exposed, with Ramboll providing the recommendation for them to be repaired. On this inspection the two exposure locations appear to have been rectified as they have now been covered with concrete (**Photos 19 - 20**). These repairs satisfy the recommended actions previously provided and no further action is needed.

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 9**). No evidence of sediment was found in water flowing offsite at southern culvert. Ramboll recommends replacing ground cover material (ballast) if further erosion occurs or sediment is visible in the downstream surface water of the southern culvert.

Conditions on site appeared much drier than the previous site inspections (14/09/23). This was most notably apparent with less pooled water downgradient of the middle culvert (**Photo 4**) and less flowing water downgradient of the southern most culvert (**Photo 3**).

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 (Photos 17 - 18)		
	Is Exclusion Zone signage undamaged?	Yes, exclusion zone signage appeared in good condition (Photo 17 - 18).		
	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 (Photos 10 - 16). Silt fencing between middle and northern culvert.		
	If sediment is present what is the estimated depth of sediment?	Some sediment/turbid water present in pooled water on site downgradient of middle culvert (Photo 4). Minimal sediment present on silt fencing and rock checks.		
	Are sediment controls still functional?	Yes.		
	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.	No, weeds previously growing out of stockpile had been removed due to vegetation maintenance.		
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. Two new exposed locations were identified during the previous inspection (14/09/23). This inspection verified the two 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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	Control	Inspection	
		Compliant	Non-Compliant
5.1	Exclusion Zone signage present on 100 lineal meter increments adjacent both sides of the rail formation and on similar spacing to demarcate contamination in adjacent soils		
	Condition of polymer sealant (refer to site grid inspection sheet)		
	Sediment traps:		
	Date and volume of maximum rainfall in a 24hr period since last inspection?		
	Date:		
7.3	Max volume in 24hr period:		
	Condition of sediment traps		
	Controls for contaminated stockpiles:		
	Date and volume of maximum rainfall in a 24hr period since last inspection?		
	Date:		
	Max volume in 24hr period:		
	Stockpiles placed away from drainage lines, gutters, stormwater pits or inlets.		
Stockpiles covered securely so that surface water infiltration cannot occur.			
Stockpiles positioned on level surfaces with construction of bunds to control water ingress / egress.			



Photo 1: Picture at halfway point at Tarago railway station platform facing south-west. No airborne dust visible.



Photo 2: Picture at north-eastern end of Tarago railway station facing north-east. No airborne dust visible.

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Photo 3: Southern most culvert downgradient of rail line, with slow moving surface water travelling off-site. Water is clear, low turbidity, minimal observable sediment, long grass and some algae present.



Photo 4: Downgradient of middle culvert showing brown turbid water on site. Surface water levels notably less than in the previous inspection (14/09/23). No surface water currently running off site at middle culvert.

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Photo 5: Downgradient of middle culvert. No water or damp soil found pooling adjacent to site boundary fencing compared to previous inspection (14/09/23). No surface water currently running off site at middle culvert.



Photo 6: Causeway downgradient of middle culvert showing no evidence of current surface water moving off site. No visible sediment on road or vegetation nearby from sediment water was running off site in between inspections.

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Photo 7: Downgradient of northernmost culvert showing evidence of no surface water runoff from site into neighbouring property.



Photo 8: Upgradient of northernmost culvert showing evidence of no surface water present.

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Photo 9: Visible evidence of erosion due to loss of ground cover (ballast material) upgradient of southernmost culvert. Remaining material is stable and no major further erosion is noted since last inspection. Facing north-east.



Photo 10: Upgradient of southernmost culvert showing Coir sediment control logs, used as control measures for sediment control. Facing north-east.

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Photo 11: Rock checks running along former Woodlawn siding and between southern and middle culverts. Silt fencing replaced by Coir sediment control logs.



Photo 12: Rock checks running alongside former Woodlawn siding towards the middle culvert. No evidence of sediment build-up in rock armoury or Coir sediment control logs.

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Photo 13: Upgradient of Middle culvert showing no flowing or pooled water. No evidence of sediment build-up in culvert.



Photo 14: Upgradient of middle trainline culvert facing east. Silt fencing is clear with some sediment visible.

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Photo 15: Rock armour upgradient of trainline running from the middle to the north culvert. Some sediment visible on rock armour. Facing north-east.



Photo 16: Upgradient of northernmost culvert. No evidence of surface water run off on site. No evidence of sediment buildup on rocks. Rock armor and natural vegetation allow for sediment control in surface water.

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Photo 17: Exclusion zone signing placed periodically along contamination areas. Undamaged and in good condition. Facing South-West.



Photo 18: Exclusion zone signing placed periodically along contamination areas. Undamaged and in good condition. Facing South-East.

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Photo 19: Exposed geofabric layer marker on main stockpile which was identified during the previous inspection (14/09/23), that has since been filled in with concrete. Repaired location indicated by yellow circle. Located on North-Eastern side of stockpile.



Photo 20: Exposed geofabric layer marker on main stockpile which was identified during the previous inspection (14/09/23), that has since been filled in with concrete. Repaired location indicated by yellow circle. Located on South-Eastern side of stockpile.

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Photo 22: No pooled water adjacent to railway tracks. Facing North-East.

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