Taroom Reservoir Cleaning report 2021

INSPECTION REPORT

Structure ID:		MED File Ref No:	2015-03-1
Structure Type:	Reservoir	Mobilisation Date:	23.03.2015
Asset Name:	Theodore Water Treatment Plant	Completion Date:	24.03.2015
Waterway Name:	N/A	Dive Supervisor:	Lance Williams
Asset Owner:	Banana Shire Council	Inspection Depth:	3.5 m
District:		Address:	2 Eidsvold Theodore Road Theodore Q 4719
Local Authority:	Banana Shire	Latitude:	24.57900
Authorizing Officer:	Mr Miguel Escobar	Longitude:	150.44107



Contents:

1.	Asset description and Inventory
2.	External Inspection4
3.	Internal Inspection
4.	Cleaning Schedule
5.	Photographs, Video and sketches record list

INSPECTION REPORT

1. ASSET DESCRIPTION

2.1 ENTRY			I E O E E REE						
Security Fencing:	Yes	Height:	2.4	Length:	Na				
Sec Fence Type:	Chain mesh	Chain mesh							
	Facility is with	Facility is within the Theodore Water Treatment plant compound.							
Gates:	Yes	Lock / Padlock:	Yes	Grounds:	Lawn				
CCTV:	No	Qty:	Na						

2.2 RESERVOIR

Z.Z RESERVOIR					
Construction wall:	Concrete	Construction	Concrete	Construction	Gal C sections and
		Floor:		Roof:	iron roof
Shape:	Round	Depth:	3.5 m	Diameter:	21.4m
Floor Area:	359.6 m2	Capacity:	1.3 ml	Water Depth:	3.0 m
Additional:					

2.3 ADDITIONAL A	SSETS				
External Ladder:	Gal ladder vertical with safety cage			Length:	
	Padlock on la	adder access.			
Internal Ladder:	Yes			Length:	3.4m
Confined Space:	Yes Davit: No		No	Davit Type:	No
Hatch:	Metal.	· · · · ·		Hatch Lock:	No
Hatch Condition:	10/10			Opening Size:	800mm x 800mm
Handrails:	No	Length:	Na	Handrail height:	Na
Handrail Type:	Na				

2. External Inspection

AREA	STATUS	RATING / 10	COMMENTS	REF:
Compound	Na	Na	Reservoir forms part of Water treatment plant.	TWTP1-1
Coatings	Na	Na	No comment	
Vandalism	D	10	Appears to be in good order	
Walls	D	10	Appears to be in good order	TWTP1-1
Ladder External	D	10	Appears to be in good order	TWTP1-2
Entry Hatch	A	5	Entry hatch was not locked.	TWTP1-3
Roof Platforms	D	10	Appears to be in good order	
Walkways	Na	Na	No Comment	
Roof	A	5	Central gutter does not filter water away from roof and high rain events will spill over into reservoir.	TWTP1-4
Handrails	A	1	There are no handrails	
Davit	Na	Na	There is no davit.	
Ventilation	D	10	Appears to be in good order	
Bird Proofing	A	5	Refer Roof comments.	
Electrical	Na	Na	No comment	
Level Indicator	Na	Na	No comment	
Others:				

Status A – Attention required Status F – Item to be reassessed Status D – Item to be deferred until next inspection

3. Internal Inspection

AREA	STATUS	RATING / 10	COMMENTS	REF:
Walls	D	10	Appear to be in good order	
Columns	D	10	Appear to be in good order	
Coatings	Na	Na	No Comment	
Roof	D	8	Number of bolts and support spacers on roof underside are starting to show signs of corrosion.	TWTP1-7 1-7a
Floor	D	10	Appears to be in good order	
Inlet	D	7	Minor rust	
Outlet	D	7	Minor rust	
Overflow	A	5	Overflow is heavily corroded and future maintenance should include replacement.	TWTP1-8
Supports	Na	Na	No comment	
Ladder Internal	A	5	Ladder has minor corrosion however fixings are rusted and require replacement.	TWTP1-5 TWTP1-6
Other:				

Status A – Attention required

Status F – Item to be reassessed

Status D – Item to be deferred until next inspection

Summary of Findings:

- 1. Roof support
 - Minor rust on number of bolts and support spacers of roof framing.
- 2. Internal ladder
 - The internal ladder is showing signs of corrosion however fixings are rusted. Recommend replacement with HDPE ladder and 316 stainless steel fixings.

3. Overflow

• The Overflow pipe is heavily corroded and future maintenance should allow for its replacement.

4. Roof Gutter

 Central gutter does not filter away water and high rain events as seen whilst on-site on 23.03.2015 provided large volume of water from roof directly into reservoir water supply.

5. CLEANING SCHEDULE

Water Depth:	3.0 m	Water Clarity:	20%						
Deposit type:	Lime	Silt level average:	600mm						
Sample reference:	Supplied 2 x sedime	Supplied 2 x sediment samples							
	Supplied 1 x water s	amples (Free Chlorine test complete	ed = "0.30")						
Comments:									
 Nominated sedir 	ment from previous report	= 600mm (210 m3)							
	was as above, lime and ext								
	reign objects were found in								
	amount of lime sediment p	hotographs were difficult to obtain	as scraping the base layer was						
- Additional works on 24.03.2015. T	included installation of plu	g and retrieval device so change out ete task was not successful due to th d on the following day.							
Chlorine testing:									
		ompletion of cleaning with the resul	t being "0.30". Test was completed						
	a considerable rain event t	he previous night.							
 Water depth 3.0 	m.								

- Sodium Hypochlorite was added to increase level to 0.5.

6. PHOTOGRAPHS and SKETCHES Record List

Reference	Component	Details
TWTP1-1		Theodore WTP
TWTP1-2		Entry ladder
TWTP1-3		Entry hatch
TWTP1-4		Roof
TWTP1-5		Internal ladder
TWTP1-6		Ladder fixings
TWTP1-7		Roof inside
TWTP1-7a		Roof underside access
TWTP1-7b		Roof support corrosion
TWTP1-8		Overflow riser
TWTP1-9		Clean unclean
TWTP1-9a		Clean unclean 2
TWTP1-10		Additional photos

Theodore Reservoir Cleaning report 2021

Structure Ins	pect	tion Report									Reservoir	Tank
Structure ID:		Taroom WTP			1	Client:		[Banana Shire Council			
Structure Type:		Reservoir		1	Contact:		Miguel Escobar					
Construction Ty	tion Type: Concrete		Owner:		Ì	BANANA SHIRE COUNCIL						
Inspection Type	:	Clean & Inspect			ĺ	Asset Locati	ion:	6 Cranmar Street, TAROOM, Qlo		Qld		
Inspector:		J Pearson C Hu	icka	ıuff	ĺ	Lat Long:		Ì				
Inspection date	Inspection date: Saturday 28 th August 2021		ĺ	Report No:		Ì	1423-2021-15					
Inspection Level 1	X	Inspection Level 2	Γ	Inspection Level 3	Γ	Exceptional		Pro	ogrammed	X	Underwater	X
Potable Water	x	NON Potable Water		Contaminated Diving		Sediment Cleaning	X		mples guired		Disinfection	



Contents:

- 1. Asset description and Inventory
- 2. External Inspection
- 3. Internal Inspection
- Cleaning schedule
 Photographs | Sketches record listing
- 6. Summary of Findings

1. Asset Inventory and Description

1.1 Entry and	Access:						
Security Fencing:	Yes	Height:	2.1m	Length:	-		
Fence Type:	Galvanised mesh						
Gates:	Y	Lock:	Yes	Grounds:	Lawn / dirt		
CCTV:	Ν	Quantity:	-	Security patrolled:	Unknown		
Other:	Forms part or water treatment plant.						

1.2 Reservoir | Tank Specifications:

Construction Walls	Concrete	Construction Floor	Concrete	Construction Roof	Gal C section and iron roof, I beam purlins			
Shape	Round	Height	4.9 m, u-side of hatch	Diameter	18.4 m			
Floor Area	265.9 M2	Capacity	1.2 ml	Water Depth	1.5 m			
Other	 Temperature test on reservoir taken whist still full after 3 days offline = 36 dc Temperature test taken after draining reservoir to 1.5m / 2 days offline = 23 dc 							

Refer Pic 1.20

1.3 Additiona	al Assets:				
External ladder	Gal cage vertica	al ladder with s	Length	7.0 m	
Confined Space	Y	Signage	N	Restricted access	Y
Davit	Ν	Davit Type		In Service	-
Hatch	Υ		Hatch lock	Y	
Hatch condition	8/10		Opening size	0.95 m x 1.1 m	
Handrails and type	Yes – Gal round	l pipe		Height of rail	1.050 m
Roof Platform	Ν	Size	-	Harness anchor points	0
Internal ladder	Y			Length	4.9 m
Other:	-				

2. External Inspection

Area	Status	Rating 10	g Comments	
Compound	D	8	Forms part of Water treatment plant and is well kept.	
Coatings	-	-	No coatings	
Vandalism	D	10	No apparent vandalism on reservoir noticeable.	
Walls	D	8	Appears to be in good order	1.2
Ladder External	D	10	Appears to be recently installed	1.1
Entry Hatch	А	7	- Hatch appears to be in good order	1.3
Roof Platforms	D	0	- Moderate rust on support frame bracing	1.4
Roof Platforms	D	8	No noticeable issues.	1.3
Walkways	-	-	No walkways.	
Roof	А	4	- Timber frame structure on roof is not fully sealed	1.5
			and external elements can enter reservoir.	1.6
			- Timber frame structure has rot on 90x90	1.7
			Hardwood post supports.	1.8
			- Rust is noticeable in vicinity of timber frame	1.9
			structure.	
			- There is a galvanised pipe on the roof that is only supported by bricks on iron sheeting with no	
			noticeable bracing to roof support beams.	
			 New pipe penetrations on roof are not fully 	
			sealed.	
Handrails	D	8	Appears to be in good order	1.5
Davit	-	-		
Ventilation	D	8	Appears to be in good order	1.5
Bird Proofing	-	-		
Electrical	-	-		
Level Indicator	D	9	Appears to be working	1.1
Others:	А			

Status A: Attention required | Status F: Item to be reassessed | Status D: Item Deferred until next inspection

3. Internal Inspection

Area	Status	Rating 10	Comments	Ref:
Walls	D	7	Exposed aggregate to 75% of internal surface however no noticeable defects.	1.13
Columns	D	8	Appear to be in good order with tea staining on concrete surfaces	1.10 1.11
Coatings	-	-	No coatings	
Roof	А	5	 Moderate rust on girders and column support brackets. 	1.10 1.11
			 Moderate rust on bolt connections Moderate / severe rust on box gutter support bracing and sheeting that is hanging. 	1.12
Floor	D	7	Patches of exposed aggregate to internal surface however no noticeable defects.	1.18 1.19
Ladder Internal	D	8	Tea staining on Stainless steel ladder, however no noticeable defects.	
Overflow	А	5	Moderate/ heavy corrosion to pipework with blistering	1.14
Inlet	А	7	Minor corrosion to pipework	
Outlet	А	6	Moderate corrosion to pipework	
Sediment and foreign material	-	-	250 -300mm Red dirt and rust particles.	1.15 1.16 1.17
Other	-	-	-	,

Status A: Attention required | Status F: Item to be reassessed | Status D: Item Deferred until next inspection

4. Cleaning Schedule:

Water Depth:	1.5 m	Water clarity:	40%
Deposit type:	Red dirt and rust particles	Silt level average:	250-300mm
Samples reference:	- Supplied to prin	ciple representative	

Comments:

- Sediment consistency was red dirt and rust particles from pipework and box gutter supports.

Chlorine Testing:

- Not required in scope.

Sediment disposal Scour | confirmed with principle representative. method:

5. Photographs and Sketches Record:

Reference:	Component:	ID:	
1-1 Description:	Ladder		i i i i i i i i i i i i i i i i i i i
External ladder			
Reference:	Component:	ID:	
1-2	Walls		
Description:			
External walls			
Reference:	Component:	ID:	
1-3	Hatch		
Description: Entry hatch			
Reference:	Component:	ID:	
1-4	Hatch		
Description:			
Moderate rust o bracing	on support frai	ne	

Reservoir | Tank

Reference:	Component:	ID:	
1-5	Roof		
Description:	11001		and the state of the second
Unknown fram	e on roof		
Reference:	Component:	ID:	
1-6	Roof		
Description:			
- Rust staining a structure	and particles f	rom	
Reference:	Component:	ID:	
1-7	Roof		and the second sec
Description: Unknown struc - Hardwood tim extensive mois	ber supports	has	
Reference:	Component:	ID:	
1-8	Roof		
Description:			
There is a galva that is only sup sheeting with n roof support be	ported by bric o noticeable b	ks on iron	

Reference:	Component:	ID:	
1-9	Roof	101	
Description:	KUUI		
New pipe pene fully sealed.	trations on ro	of are not	
Reference:	Component:	ID:	
1-10	Roof		
Description:	ROOT		
Moderate rust support bracke	ts.		bereite tree
Reference:	Component:	ID:	
1-11	Roof		
Description: Moderate rust (support bracket		l column	
Reference:	Component:	ID:	
1.12	Roof		
Description:	1.1.001		
Moderate / sev support bracing hanging.			Since a week to be a set of the s

1.13 Walls Description: ID: Reference: Component: ID: 1.14 Pipework Description: Moderate/ heavy corrosion to pipework with blistering ID: ID: Moderate/ heavy corrosion to pipework with blistering ID: ID: 250 - 300mm sediment ID: ID: 1.16 Sediment ID:	Reference:	Component:	ID:	
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Moderate/ heavy corrosion to pipework with blistering Image: Component: ID: Image: Component: Imag	Description:		4	
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1.15 Sediment Description:	pipework with	Distering		
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Reference: Component: ID: 1.16 Sediment Description: Floor - wall joint after cleaning.				
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1.16 Sediment Description: Unclean				
1.16 Sediment Description: Unclean				
1.16 Sediment Description: Unclean				Type
1.16 Sediment Description: Unclean				
Description: Floor – wall joint after cleaning.		Component:	ID:	
Floor – wall joint after cleaning.	1.16	Sediment		The second se
Hoor – wan joint after cleaning.	Description:			
Hoor – wan joint after cleaning.				
	Floor – wall jo	int after clean	ing.	Unclean
Clean	,		-	
Clean				
				Clean

Reference:	Component:	ID:	/
1.17			
Description:			
Sediment dispondent di	Component:	ID:	
Description:			
Clean floor joir			
Reference:	Component:	ID:	
1.19	Floor		
Description:			
Exposed aggre	gate — clean f	loor ID:	
1.20		10.	
	Other		
Description:			
Temperature r	eading on tan	ık 36 Dc.	

6. Summary of Findings:

No.	Statur	Comments
1	А	Entry Hatch: Moderate rust on support frame bracing
2	A	 Roof External: Timber frame structure on roof is not fully sealed and external elements can enter reservoir. Timber frame structure has rot on 90x90 Hardwood post supports. Rust is noticeable in vicinity of timber frame structure. There is a galvanised pipe on roof that is only supported by bricks on iron sheeting with no noticeable bracing to roof support beams. New pipe penetrations on roof are not fully sealed.
3	A	 Roof Internal: Moderate rust on girders and column support brackets. Moderate rust on bolt connections Moderate / severe rust on box gutter support bracing and sheeting that is hanging.
4	А	Internal Pipework: • Moderate to heavy corrosion on all pipework inlet, outlet and overflow.

Rowan Toomey Executive Director .

Theodore Reservoir Cleaning report 2015

Structure Insp	ect	ion Report							Reservoir	Tank			
Structure ID:		Theodore WTP			Theodore WTP			Client:		Banana Sh	Banana Shire Council		
Structure Type:	e: Reservoir Contact:				Miguel Escobar								
Construction Ty	be:	Concrete			Concrete Owner:				BANANA S	BANANA SHIRE COUNCIL			
Inspection Type:		Clean & Inspect			Asset Location		2 Eidsvold Theodore Road, THEODORE, Qld						
inspector:		J Pearson C Hu	ckauff	ĺ	Lat Long:			_					
Inspection date:		Friday 27 th August 2021		Friday 27 th August 2021		ĺ	Report No:		1423-2021	-14			
Inspection Level 1	X	Inspection Level 2	Inspection Level 3	ſΓ	Exceptional	Р	rogrammed	X	Underwater	X			
Potable Water	x	NON Potable Water	Contaminated Diving		Sediment X		amples equired		Disinfection				



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1. Asset Inventory and Description

1.1 Entry and Access:									
Security Fencing:	Yes	Height:	2.4m	Length:	-				
Fence Type:	Galvanised mesh								
Gates:	Y	Lock:	Yes	Grounds:	Lawn				
CCTV:	Ν	Quantity:	-	Security patrolled:	Unknown				
Other:	Forms part or wat	ter treatmei	nt plant – well kept.						

1.2 Reservoir | Tank Specifications:

Construction Walls	Concrete	Construction Floor	Concrete	Construction Roof	Gal C section and iron roof
Shape	Round	Height	3.5 m	Diameter	21.4 m
Floor Area	359.6 M2	Capacity	1.3 ml	Water Depth	3.0m
Other	-				

1.3 Additional Assets:

External ladder	Gal cage vertica	al ladder with sa	afety cage	Length	4.6m
Confined Space	Υ	Signage	Ν	Restricted access	Y
Davit	N	Davit Type	-	In Service	
Hatch	Y			Hatch lock	N
Hatch condition	8/10			Opening size	0.8m x 0.8m
Handrails and type	No			Height of rail	-
Roof Platform	Ν	Size	-	Harness anchor points	0
Internal ladder	Υ			Length	3.4 m
Other:	-				

2. External Inspection

Area	Status	Rating 10	Comments	Ref:
Compound	D	8	Forms part of Water treatment plant and is well kept.	
Coatings	-	-	No coatings	
Vandalism	D	10	No apparent vandalism on reservoir noticeable.	
Walls	D	8	Numerous patch repairs, no noticeable leakages.	1.2
Ladder External	D	8	Appears to be in good order	1.1
Entry Hatch	D	8	Appears to be in good order	1.4
Roof Platforms	-	-	No roof platform	
Walkways	-	-	No walkways.	
Roof	А	5	Central gutter does not filter water away from roof and high rain events will spill over into inside.	1.3 1.7
Handrails	-	-	No handrails	1./
Davit	-	-		
Ventilation	D	9	Covers are on side vents, appear to be in good	
Bird Proofing	-	-	order.	
Electrical	-	-		
Level Indicator	D	8	Appears to be working	
Others:	А		External valve has moderate rust at base of connection to reservoir wall.	1.5

Status A: Attention required | Status F: Item to be reassessed | Status D: Item Deferred until next inspection

3. Internal Inspection

Area	Status	Rating 10	Comments	Ref:
Walls	D	7	Appears to be in moderate condition, exposed aggregate is noticeable on walls with staining in multiple locations.	1.9
Columns	D	7	Appears to be in moderate condition	1.8
Coatings	-	-	No coatings	
Roof	Α	5	Number of bolts and support spacers on roof underside are showing signs of corrosion	1.7
Floor	D	7	A number of floor joints have epoxy in spot	1.10
			locations, no obvious issues encountered.	1.12
Ladder Internal	D	7	Fixings and ladder have minor surface corrosion	1.11
Overflow	А	5	Overflow is heavily corroded and future maintenance should include replacement.	1.6
Inlet	D	7	Mild/ Moderate rust	
Outlet	D	7	Mild / Moderate rust	
Sediment and	-	-	200 – 250mm lime and sand	1.13
foreign material				1.14
				1.15
				1.16
Other	-	-	-	

Status A: Attention required | Status F: Item to be reassessed | Status D: Item Deferred until next inspection

4. Cleaning Schedule:

Water Depth:	2.5 m	Water clarity:	75%
Deposit type:	Lime and Sand	Silt level average:	200-250mm
Samples reference:	- Supplied to princ	ciple representative	

Comments:

- Sediment consistency was lime and sand, dense in nature.
- Due to the lime sediment photos were difficult to obtain as visibility was poor.

Chlorine Testing:

- Not required in scope.

Sediment disposal Sediment pond on-site | confirmed with principle representative. method:

5. Photographs and Sketches Record:

S. Photogra Reference:	Component:	ID:	
1-1			
1-1 Description:	Ladder	L	
External ladder			
Reference:	Component:	ID:	
1-2	Walls		
Description:			and the second statement of th
External walls			
Numerous patch leakages.	n repairs, no n	oticeable	
Reference:	Component:	ID:	
1-3	Roof		그는 것 같아. 그는 것은 것은 것 같아요. 그는 것 같아요. 가지 않는 것 같아요.
Description:			
External roof			
Reference:	Component:	ID:	
1-4	Hatch		KI / KI / KI / KI
Description:	naten		
Entry Hatch			

Reference:	Component:	ID:	
1-5	Valve		
Description:	valve		
External valve base of conne			
Reference:	Component:	ID:	
1-6	Pipework		
Description:	TIPEWOIK		
Overflow rust			
Reference:	Component:	ID:	
1-7	Roof		
Central gutter away from roo will spill over in	f and high rain		Gaps in central roof gutter
Reference:	Component:	ID:	
1-8	Roof		
Description:	1 1001		
Internal roof a	nd support pile	25	

Reference: 1-9	Component: Walls	ID:	
Description:	VVdIIS		
Description.			
Annoara ta ha ir	in adamata aa	u dition	
Appears to be in			
exposed aggrega			
walls with staini	ng in multiple	1	
locations.			
Reference:	Component:	ID:	
1-10	Floor		
Description:	11001		A THE A REAL AND A REAL AND A
			A CONTRACTOR A
A number of floo	or joints have	enovyin	ELT CONTRACTOR
spot locations, n			
		ues	A REPARA
encountered.			- State a control of States and
			A STREET AND A CONTRACT OF
			A CONTRACT AND A CONTRACT OF
			THE AND THE PARTY OF
Reference:	Component:	ID:	
1-11	Ladder		
Description:			
Fixings and ladd	er have minor	surface	Statement of the statement of the statement
corrosion.			the second s
			and the second
Reference:	Component:	ID:	The second s
1.12	Floor		
Description:			and the second
A number of floo	or ioints have	epoxy in	
spot locations, n			
encountered.	0 0011040 1001		
encountereu.			
			and a set of the set o

Reference:	Component:	ID:	
1.13	Sediment		
Description:	- counterre		
Sediment Lime	and fines 200	9-250mm	October and and a second and as second and a
Reference:	Component:	ID:	
1.14	Sediment		
Description:	4		
Reference:	Component:	ID:	
1.15	Floor		
Description:			
Sediment – clea			
Reference:	Component:	ID:	· 建立 · · · · · · · · · · · · · · · · · ·
1.16	Floor		
Description:			
Floor – wall joir	nt after cleanii	ng.	

6. Summary of Findings:

Vitis-	Status	Comments
1	А	Roof:
		 Central gutter does not filter water away from roof and high rain events will spill over into inside. Number of bolts and support spacers on roof underside are showing signs of corrosion
2	А	External valve:
		External valve has moderate rust at base of connection to reservoir wall.
3	А	Overflow:
		 Overflow is heavily corroded and future maintenance should include replacement.

Rowan Toomey Executive Director