

LIQUITECH

ROV Sprinkler Tank Inspection Sample Report

Reference: 123456789

Date of Inspection: 00/00/0000



Your Company Name
Here

Tel: 00000 000000

Contents

Customer and Visit Information	3
Name Plate Information	3
Tank Details.....	4
Tank Properties	4
Score and Recommendations	5
Tank Score	5
Recommendations	5
Ultrasonic Readings	6
Comments relating to the Ultrasonic Scan Readings.....	6
Tank Connections	7
Suction.....	7
Drain Valve	7
Gauge	7
Immersion Heater	7
Test Return	8
Overflow.....	8
Tell-tale.....	8
Ball Valve	8
Manway.....	8
Balance Pipe	9
Float switch	9
Overspill Weir.....	9
Ancillaries	10
Infill Pipe.....	10
Ladder.....	10
Platform.....	10
Ball Valve Housing	10
Top Rim Angle	11
Foundation	11
Wind Angle	11
Roof Handrails	11
Internal Ladder	11
Internal Platform	11
External Cladding.....	11
Tank Interior, Exterior and Roof	12
Tank Exterior	12
Tank Interior	12
Tank Roof	12
Roof Purlins	12
Roof Supports.....	12
Photographs.....	13
Tank Photograph(s)	13
Tank Connection Photographs	14
Ancillaries Photographs.....	24
Tank Interior, Exterior and Roof	29

Customer and Visit Information

We attended site to complete an internal/external inspection of the Sprinkler Water Storage Tank. This report highlights the observations made during the Inspection, with supporting data and photographs. The subsequent recommended remedial actions can be found in the section: [Recommendations](#).

Site inspection report type	External, ROV Submersible Camera
Site name	A Site
Reference	123456789
Site address	A site
GPS	Lat: 53.000000 Long: -0.8000000
Date of inspection	00/00/0000
Name of inspecting engineer	An Other
Location of tank	External
Weather conditions during inspection	Clear

Name Plate Information

Is the name plate present?	Yes
Installation date	05/2010
Approval by	LPCB
Manufacturers reference number	K7926
Capacity	135m ³
Any other details to note	Diameter - 6.200m Height - 4.862m



Tank Details

[Click for pictures](#)

Current status of tank	Full
Tank manufacturer	A Tank
Tank shape	Vertical Cylindrical

Tank Properties

Tank panel material	Galvanised Steel
Number of panels high	4
Number of panels round	8
Full size individual panel length	2.440m
Full size individual panel height	1.200m
Total height of tank	4.800m
Diameter	6.213m
Circumference	19.520m
Water Level from rim during inspection	500mm
Volume cubic metres (allowing for 150mm of dead water)	125.8 m ³

Score and Recommendations

Tank Score

A scoring system has been created to assess the current status of the tank, the scale is as follows:

1	Good condition
2	Small works required
3	Plan for future works within 24 months
4	Plan for future works within 12 months
5	Plan for future works within 6 months
6	Urgent Immediate Action Required

Tank Score: 5

Summary: Plan for future works within 6 months

Recommendations

- The liner should be replaced. We recommend a Butyl rubber liner.
 - Along with the above works, the following ancillaries should be replaced.
 - Drain valve c/w lagging box
 - Immersion heater
- The contents gauge should be replaced.
- The internal suction spool piece should be replaced.
- The overflow pipework should be cleaned and treated.
- Remove and blank off existing manway.
- Install a certified manway.
- The ball valve should be replaced.
- The suction lagging should be repaired/replaced as required.
- All submerged connection bolts and gaskets should be replaced.
- The missing bolt from the test return should be installed.

Ultrasonic Readings

NOTE: The ladder is positioned in panel 1.

NOTE: The original panel thickness (in mm) is shown in **blue**, the average measured panel thickness (in mm) is shown in **red**.

PANELS HIGH	4	2.00	2.00							
	3	2.00	2.00							
	2	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	1	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
		1	2	3	4	5	6	7	8	
		PANELS ROUND								

Comments relating to the Ultrasonic Scan Readings

The ultrasonic readings show that there is no internal corrosion evident.

Tank Connections

Suction

[Click for pictures](#)

Does the tank have a sump?	No
Suction pipework diameter	200mm
Internal suction material	Galvanised Steel Spool with Fibreglass Elbow
Is the external pipework insulated?	Yes
Insulation cladding material	Self-finish Aluminium
Height from floor to centre	650mm
Is a vortex inhibitor fitted?	Yes
Is the internal suction assembly installed correctly?	Yes

Drain Valve

[Click for pictures](#)

Is it visible to carry out an assessment?	No
Drain valve diameter	50mm
Drain valve material type	Brass
Is the valve insulated?	Yes
Insulation cladding material	Self-finish Aluminium
Distance to soakaway or drain	15mm

Gauge

[Click for pictures](#)

Gauge type	Direct Acting
What is the reading on the gauge?	5mH
Does the gauge need replacing?	Yes

Immersion Heater

[Click for pictures](#)

Immersion heater manufacturer	Real Systems
Distance from rim	1000mm
Electrical rating	3kW

Test Return

[Click for pictures](#)

Is a drain fitted to the test return pipe?	Yes
Test return pipe diameter	100mm
Test return pipe material	Galvanised Steel
Is the pipework insulated?	No
Is the test return pipe outlet submerged?	No

Overflow

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Overflow diameter	150mm
Overflow material	Galvanised Steel
Is a mesh fitted?	Yes

Tell-tale

[Click for pictures](#)

Tell-tale diameter	25mm
Tell-tale material	PVC
Is mesh fitted?	Not visible

Ball Valve

[Click for pictures](#)

Ball valve diameter	50mm
Ball valve make/type	Peter Smith
Ball valve material type	Cast Iron

Manway

[Click for pictures](#)

Shape of manway	Cylindrical
External flange thickness	6mm
Manway door thickness	8mm
Number of bolts on manway	24
Bolt diameter	12mm
Size of manway	Diameter: 600mm

[Back to Contents](#)

Balance Pipe

[Back to contents](#)

Status	Not installed.
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Float switch

[Back to contents](#)

Status	Not installed.
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Overspill Weir

[Back to contents](#)

Status	Not installed.
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Ancillaries

Infill Pipe

[Click for pictures](#)

Is the pipe accessible for a visual assessment?	No
Is the pipework insulated?	Yes
Insulation cladding material	Self-finish Aluminium
Is there an isolation valve present?	Yes
Trace heating	Present

Ladder

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Ladder material type	Galvanised Steel
Is there a hook-on section?	Yes
Distance from the hoops to base	2500mm
Does the ladder have a rest platform?	No

Platform

[Click for pictures](#)

Is there a platform or a platform step?	Platform
Platform material	Galvanised Steel
Platform length	750mm
Platform width	750mm

Ball Valve Housing

[Click for pictures](#)

Ball valve housing material type	Fibreglass
Is the lid present?	Yes
Lid size	880mm x 980mm
Is the lid lockable?	Yes
Ball valve housing length	900mm
Ball valve housing width	980mm
Ball valve housing height	800mm

[Back to Contents](#)

Top Rim Angle

Top rim angle size	50x50
Top rim angle material	Galvanised Steel
Condition of top rim angle	Good
Top angle orientation	Toe Out

Foundation

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Type of foundation	Concrete Raft
Does the tank have a concrete seal pour?	No
Minimum distance from tank to base edge	500mm

Wind Angle

[Back to contents](#)

Status	Not installed.
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Roof Handrails

[Back to contents](#)

Status	Not installed.
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Internal Ladder

[Back to contents](#)

Status	Not installed.
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Internal Platform

[Back to contents](#)

Status	Not installed.
---------------	----------------

External Cladding

[Back to contents](#)

Status	Not installed.
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Tank Interior, Exterior and Roof

Tank Exterior

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Tank exterior finish	Galvanised Steel
Tank exterior colour	Self
Does the tank have exterior corrosion?	No
Is the tank leaking?	No
Exterior tank staining	Water marks and moss staining
Are there any old repairs on the tank exterior?	No
Is there any damage to the tank exterior?	No

Tank Interior

[Click for pictures of Tank Interior](#)

[Click for pictures of Tank Floor](#)

Tank interior finish	Lined
Tank interior staining	Limescale
Tank interior floor debris	Light Silt

Tank Roof

[Click for pictures](#)

Tank roof type	Flat self-supporting
Tank roof sheet material	Profile trough deck
Tank roof sheet colour	Green
Tank roof flashing material	Plastic Coated Steel

Roof Purlins

[Click for pictures](#)

Purlin type	Z
Purlin material	Galvanised Steel
Condition of purlins	Good
Number of purlins	2

Roof Supports

[Back to contents](#)

Status	Not installed.
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[Back to Contents](#)

Photographs

Tank Photograph(s)

[Back to Tank Details](#)

Note: The tank is in a serviceable condition.



[Back to Contents](#)

Tank Connection Photographs

Suction Photograph(s)

[Back to Suction](#)

External Suction

Note: The lagging is damaged.



ROV Image of Suction

Note: [Corrosion](#) is present on the spool.



Internal Suction Photograph(s)

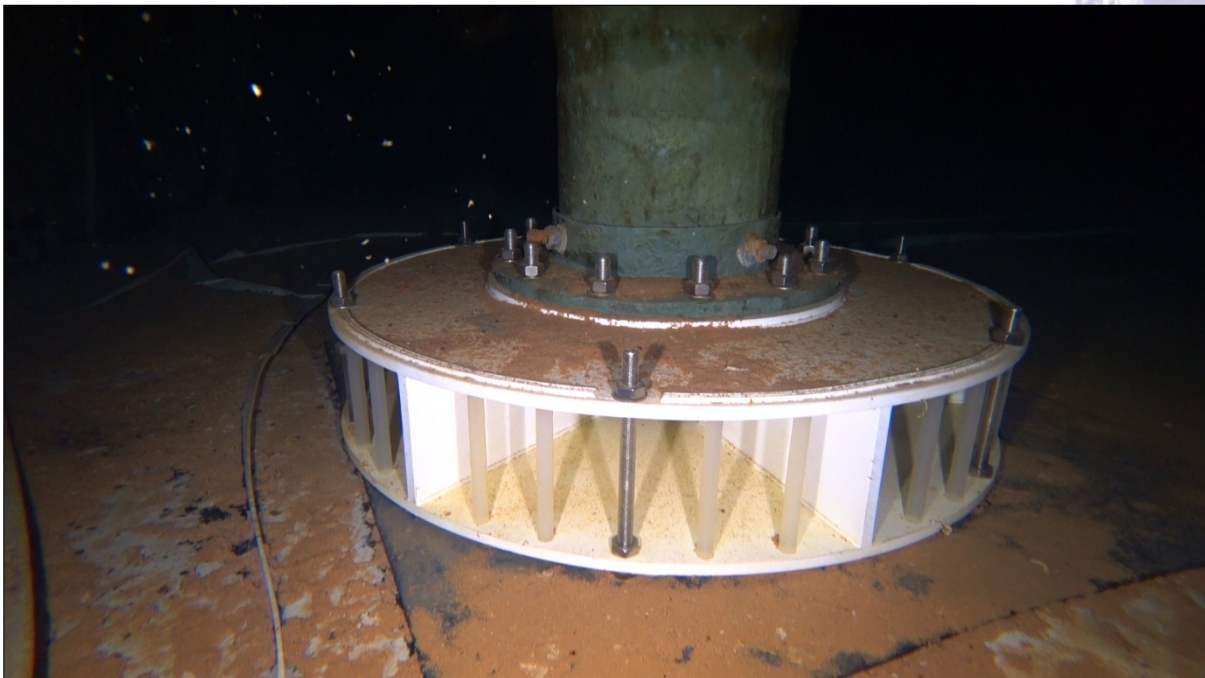
Internal Suction

Note: The spool piece and connection bolts are corroding.



Internal Suction

Note: The pipework and vortex inhibitor are in a reasonable condition.



[Back to Contents](#)

Drain Valve Photograph(s)

[Back to Drain Valve](#)

External Drain Valve

Note: The lagging is in a reasonable condition. The valve was not accessible to inspect.



ROV Image of Drain Valve

Note: The connection bolts are sealed in mastic. The backing flange is corroding.



[Back to Contents](#)

Gauge Photograph(s)

[Back to Gauge](#)

External Gauge

Note: The gauge is not reading correctly. Condensation is present behind the glass.



ROV Image of Gauge

Note: The no loss connection is sealed in mastic.



[Back to Contents](#)

Immersion Heater Photograph(s)

[Back to Immersion Heater](#)

External Immersion Heater

Note: The control box is in a reasonable condition.



ROV Image of Immersion Heater

Note: Corrosion is visible on the connection flange. Algae growth is present on the sheath.



Test Return Photograph(s)

[Back to Test Return](#)

External Test Return

Note: The pipework is in a good condition.



Note: A connection bolt is missing off the pipework.



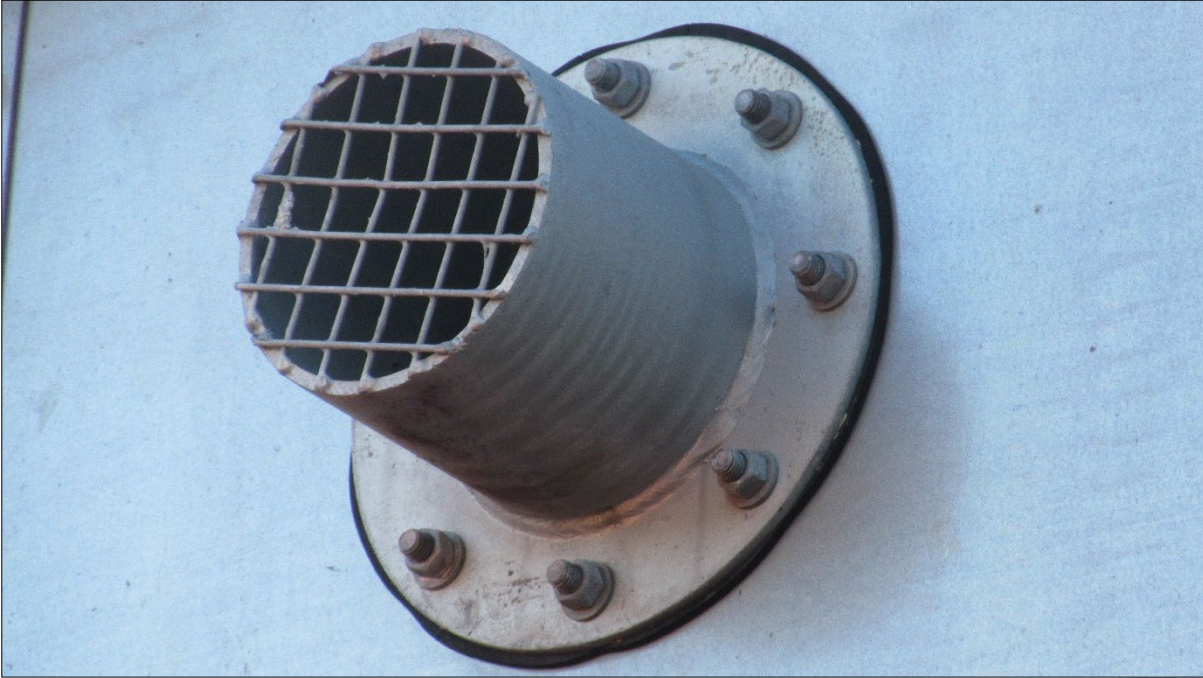
[Back to Contents](#)

Overflow Photograph(s)

[Back to Overflow](#)

External Overflow

Note: In a good condition.



ROV Image of Overflow

Note: Corrosion is present.



[Back to Contents](#)

Tell Tale Photograph(s)

[Back to Tell Tale](#)

Note: In a good condition.

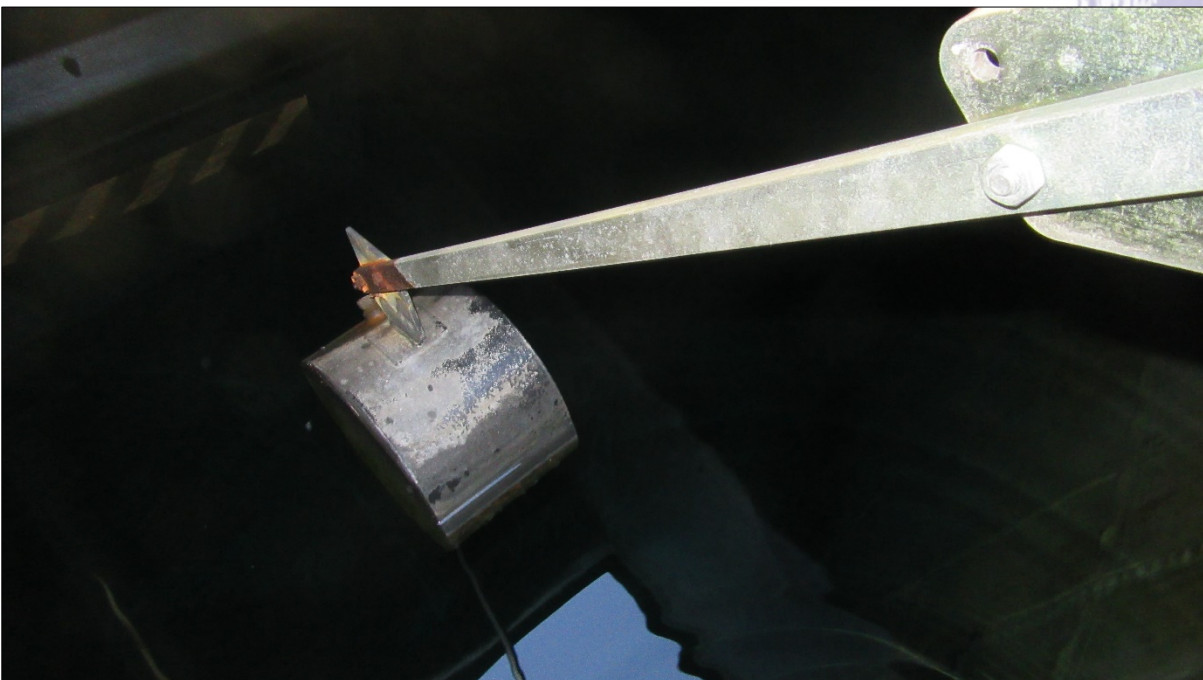


[Back to Contents](#)

Ball Valve Photograph(s)

[Back to Ball Valve](#)

Note: Corrosion is present.



[Back to Contents](#)

Manway Photograph(s)

[Back to Manway](#)

External Manway

Note: In a good condition.



ROV Image of Manway

Note: Corrosion is present on the flange and internal lid surface.



[Back to Contents](#)

Ancillaries Photographs

Infill Pipe Photograph(s)

[Back to Infill Pipe](#)

Note: The pipework bracket is in a good condition.



Note: The lagging is in a reasonable condition.



Ladder Photograph(s)

Note: The ladder is in a good condition.



Note: The safety hoops are in a good condition.



[Back to Contents](#)

Platform Photograph(s)

[Back to Platform](#)

Note: The platform is in a good condition.



Note: The handrails are also in a good condition.



[Back to Contents](#)

Ball Valve Housing Photograph(s)

[Back to Ball Valve Housing](#)

Note: The housing is in a good condition.



Note: The lid is present and secure.



Foundation Photograph(s)

Note: Where visible, the foundation is in a good condition.



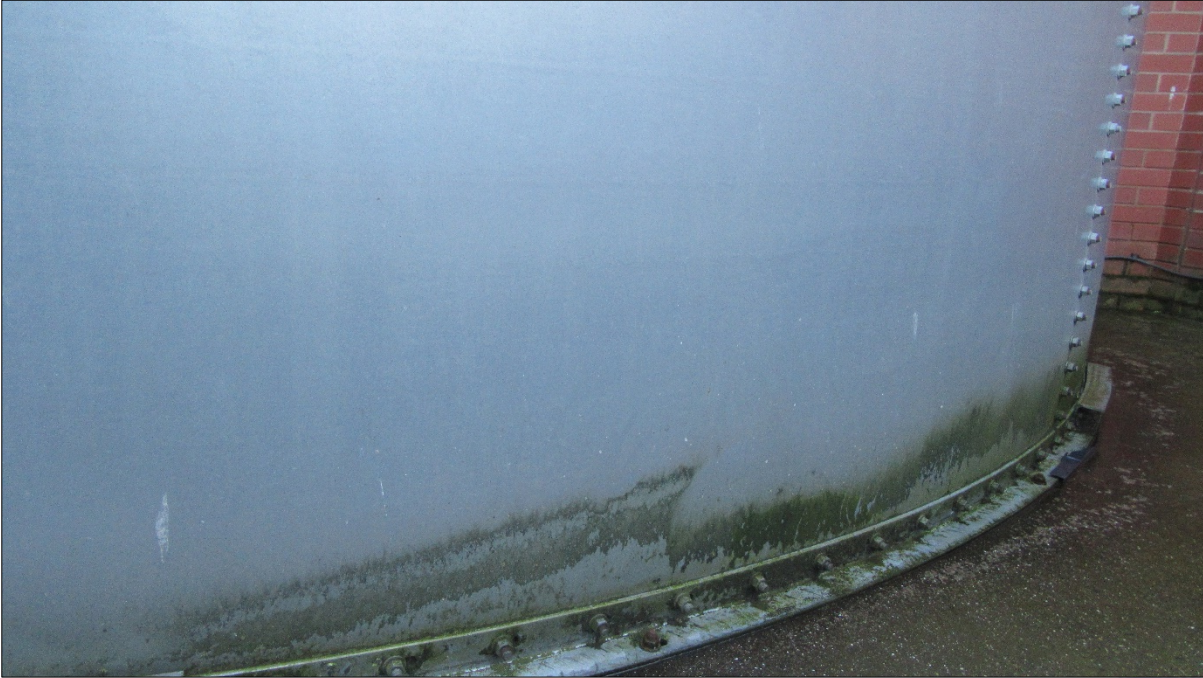
[Back to Contents](#)

Tank Interior, Exterior and Roof

Tank Exterior Photograph(s)

[Back to Tank Exterior](#)

Note: Some light moss staining is present on the shell.



Note: The shell is in a good condition.



[Back to Contents](#)

Tank Interior Photograph(s)

[Back to Tank Interior](#)

Note: The liner is shrinking and tearing.



Note: A repair has been made to the liner.

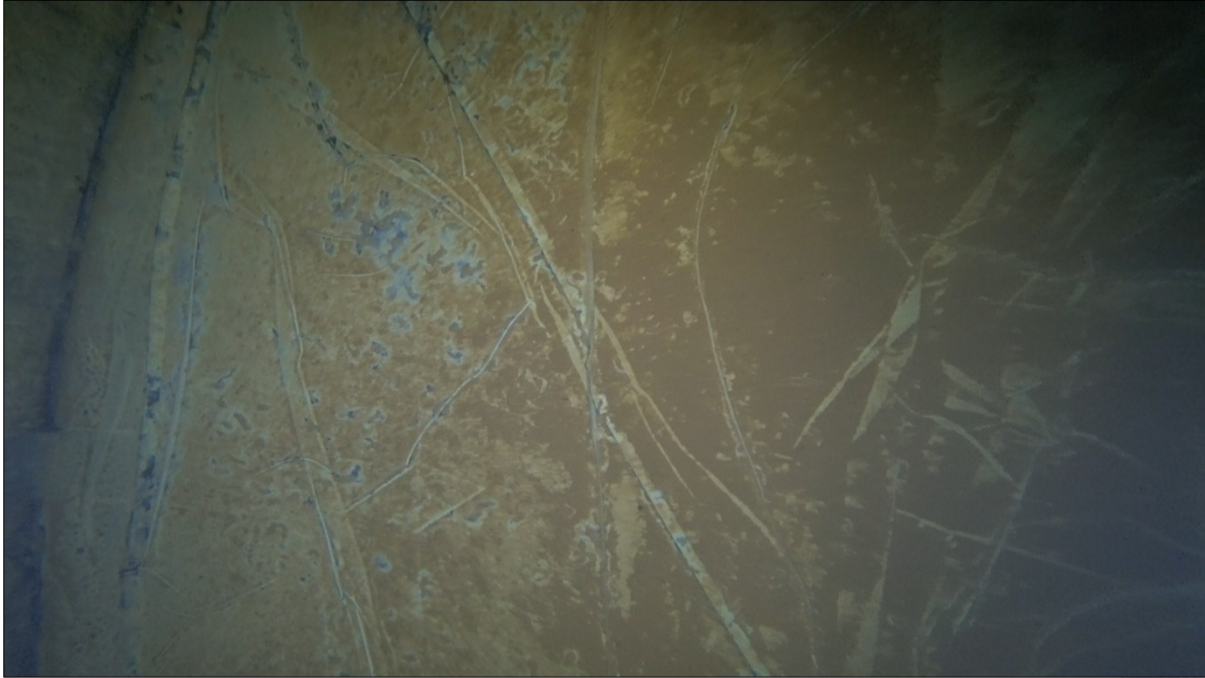


[Back to Contents](#)

Tank Floor Photograph(s)

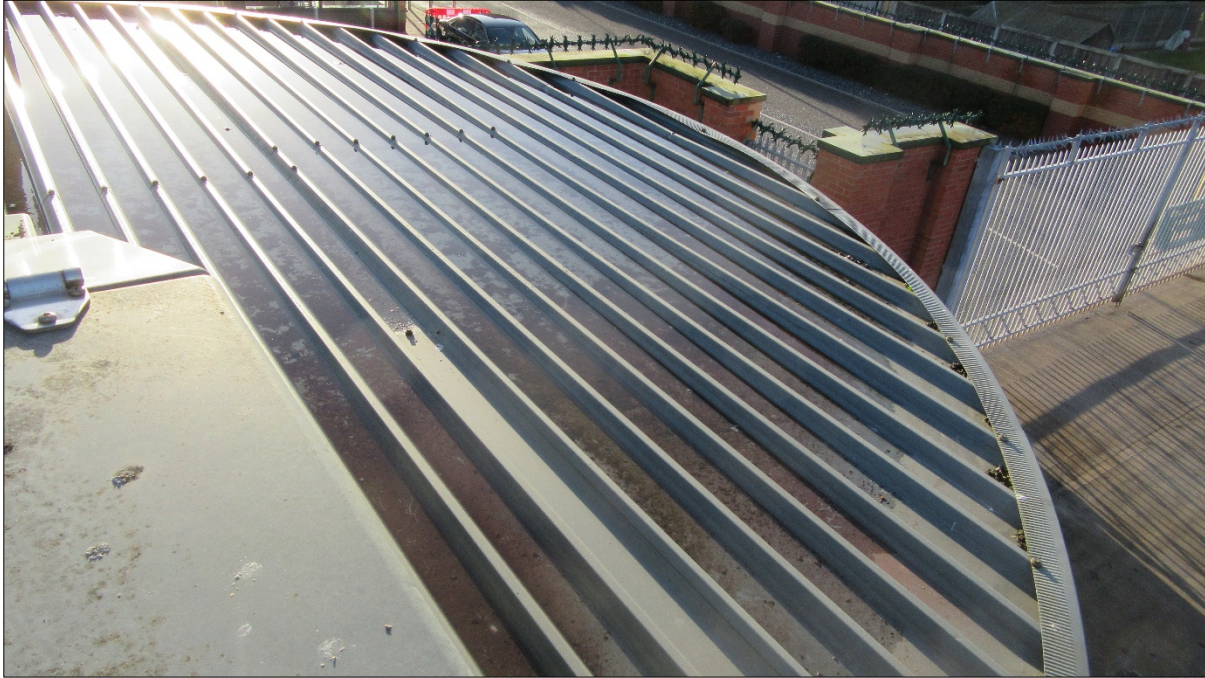
[Back to Tank Interior](#)

Note: Silt is present on the liner floor.

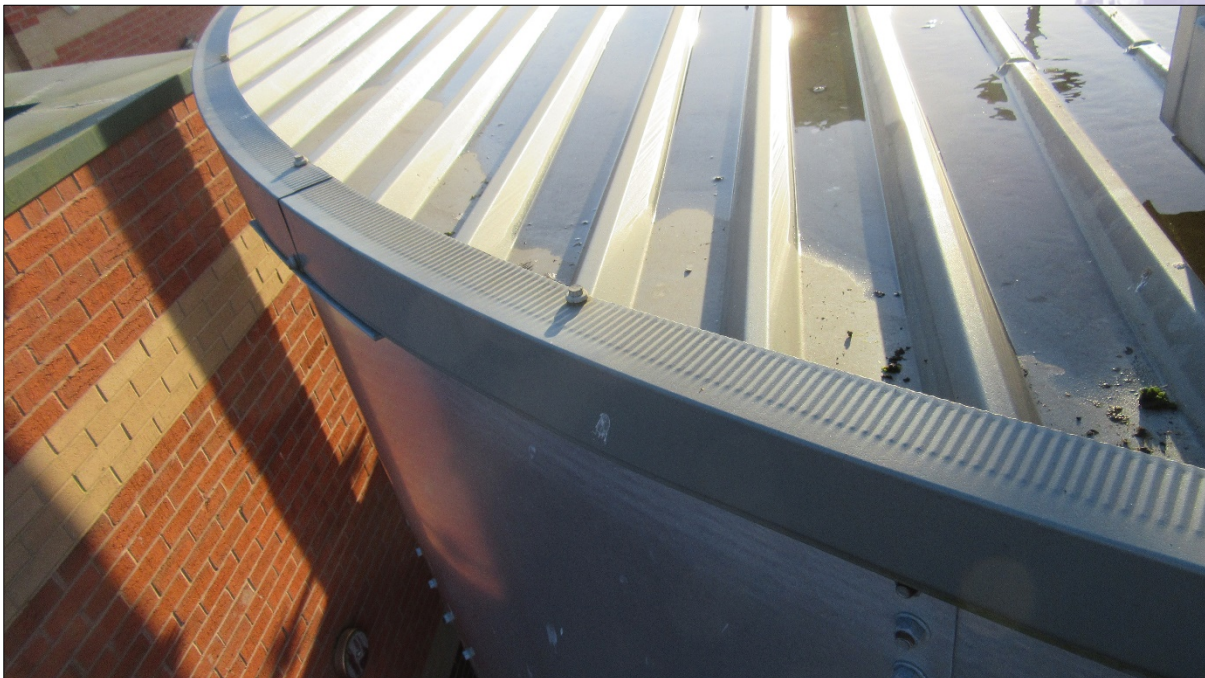


Tank Roof Photograph(s)

Note: The roof sheets are in a good condition.



Note: The flashing is also in a good condition.



[Back to Contents](#)

Roof Purlins Photograph(s)

[Back to Roof Purlins](#)

Note: The roof purlins are in a good condition.



Note: No corrosion is visible.

