

**RIDGE UTILITIES, INC.  
REGULAR MEETING  
OF THE BOARD OF DIRECTORS  
July 21, 2018**

A regular meeting of the Board of Directors of Ridge Utilities, Inc., (hereinafter "RU") was held in the Conference Room of the Association Office Building on July 21, 2018.

Board members present were Alex MacCormack, Al Fortune, William Haase, William Munday and Stephen Tompkins. Board Member, Molli Ellis was absent. Also present was Denny Kelly, General Manager and Amy Evans-Kail, Manager of Fiscal Affairs.

**CALL TO ORDER:**

Alex MacCormack, President, called the meeting to order at 9:00 a.m.

**MEMBERSHIP INPUT:**

No membership present at this time.

**DIRECTOR VACANCY:**

Alex MacCormack, President, announced that June Smith has resigned from the Board, citing work commitments and time constraints. Mr. MacCormack stated that he would like to see Steve Burrill complete the remainder of Ms. Smith's term.

**MOTION:** Alex MacCormack made a motion, seconded by Al Fortune to appoint Steve Burrill to fill the remainder of June Smith's term that expires May 2019. The motion carried unanimously.

At this time, Mr. MacCormack asked Steve Burrill to join the director's table.

**ADOPTION OF AGENDA:**

**MOTION:** William Munday made a motion, seconded by William Haase to approve the agenda as presented. The motion carried unanimously.

**APPROVE MINUTES:**

**MOTION:** Al Fortune made a motion, seconded by William Munday, to approve the May 5, 2018 minutes as presented. The motion carried unanimously.

**MOTION:** William Haase made a motion, seconded by Steve Tompkins, to approve the May 19, 2018 minutes as presented. The motion carried unanimously.

At this time Alex MacCormack asked for a motion to waive the rules and allow Public Input to be addressed with the late arrival of a community member.

**MOTION:** William Munday made a motion, seconded by William Haase to waive the rules to allow public input at this time. The motion carried unanimously.

Lori Wright, lot 550, inquired as to why she is paying a water bill monthly and everyone else paying quarterly. Alex MacCormack stated that RU bills on a quarterly basis and if the quarterly bill is not paid by the due date listed then a past-due/disconnect notice is mailed. Ms. Wright asserted that she was paying monthly and not quarterly. Mr. MacCormack asked if she had contacted the office, since they do the billing, and check the status of her account. Ms. Wright stated that she had not made an inquiry of the office about the matter. Mr. MacCormack suggested that she set up an appointment with Amy Evans-Kail to review her account history.

#### **CORRESPONDENCE:**

Alex MacCormack, President, reviewed the contents of the Correspondence Folder that were sent and/or received by RU since the last Board meeting. The Correspondence Folder was available at the meeting for the Board members to review its contents.

#### **TREASURER'S REPORT:**

Stephen Tompkins, Treasurer, reviewed the May 2018 and June 2018 Treasurer's Reports with the Board members. Mr. Tompkins stated that approximately 60% - 65% of revenues have been collected and about 45% spent in expenditures. Alex MacCormack stated that overtime is currently over budget, but General Manager, Denny Kelly will provide an explanation of why in his Manager's Report.

**MOTION:** Al Fortune made a motion, seconded by William Munday, to accept the May 2018 and June 2018 Treasurer's Reports as presented. The motion carried unanimously.

#### **MANAGER'S REPORT:**

Denny Kelly, General Manager, reviewed his written Manager's Report with the Board members. A copy of Mr. Kelly's report is attached to the minutes. Mr. Kelly stated that VDH has been sent a correspondence noting the following items: completion of repair items listed in the bi-annual report, design of the enclosure for Well 1A, and a request for assistance with the pH levels noted in their report. As of today's date we have not received a response regarding pH levels.

Mr. Kelly informed the Board that the inspection of the North Well water tank has been completed and everything looked good. Mr. Kelly stated that a copy of the inspection report is included with his written Manager's Report and VDH was also mailed a copy of the report. He also informed the Board that VDH completed a Source Water Assessment for RU and a copy is included in the correspondence folder.

Mr. Kelly informed the Board that currently our overtime budget is at 120% of its budgeted amount. He stated that much of the expense was incurred in the months of January and May. Overtime expenses for those months were \$1,842.00 and included leaks repairs, problems with the monitoring equipment at the North Well, and air issues with the tank on Nottingham.

Mr. Kelly informed the Board that four of the fifty meters needing to be replaced have been replaced as of today's date. Steve Burrill stated kudos to maintenance for the ability to sustain water during the July 4<sup>th</sup> holiday. Mr. Burrill inquired as to the failure specificity of the meters. Mr. Kelly stated that in 2017 during the 3<sup>rd</sup> qtr. meter reads we analyzed each meter and came up with a list of about fifty that need to be replaced. We are currently developing a plan to replace those fifty, but to date four have been replaced.

William Haase asked what the average costs of repairing a water leak is. Mr. MacCormack stated you would need three categories to assign each leak to get an estimate of costs because of the variables, such as, dig road up, dig road up/chip and tar, or dig road up with pavement.

Mr. Kelly informed the Board that Barton & Boyd will be in soon to begin road repairs and that RU has \$10,500 in road repair expenses. Mr. Burrill asked if RU pays for any portion of BRPOA's road repairs. Mr. MacCormack stated that RU pays specifically for areas needing repair where water leaks have been repaired.

Mr. Burrill asked if there is a life cycle management plan with regards to meters. Mr. MacCormack replied that we do not have a program to replace a certain number of meters per year.

### **BRPOA LIAISON**

No report was given.

### **PERSONNEL COMMITTEE**

Al Fortune informed that Board that the Personnel Committee met last night and came up with an agreement for compensation, but it will not be finalized until a future meeting.

### **NEW BUSINESS:**

- 1. Approve Design for Well 1A:**

Mr. MacCormack directed the Board's attention to Well 1A Design Options included in their packet. Mr. MacCormack suggested they go with Option 1, Pitless Adaptor, which is the same set-up as our newer wells, and would allow us to avoid the need of an enclosure.

**MOTION:** Alex MacCormack made a motion, seconded by Steve Burrill to approve Option 1 design for Well 1A. The motion carried unanimously.

**2. Proposal for Well 1A Enclosure:**

Mr. MacCormack next directed the Board's attention to the proposal submitted by Atlantic Pump and Equipment Company to install the NSF61 Pitless Adaptor for Well 1A. Mr. Burrill asked if this would cause any impacts with the Chesapeake Bay Act due to removing of soil, etc. Mr. Kelly responded that Louisa County is not covered under the Chesapeake Bay Act; therefore, there would be no implications. Mr. MacCormack stated that the funding for this proposal will come from the Capital Improvement Fund.


**MOTION:** Alex MacCormack made a motion, seconded by Steve Burrill to approve the installment of a NSF61 Pitless Adaptor Enclosure for Well 1A in the amount of \$12,746.26. These funds will come from our Capital Improvement account. The motion carried unanimously.

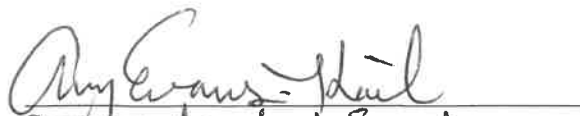
**ADJOURN:**

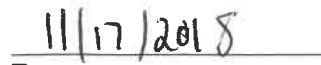
**MOTION:** Al Fortune a motion, seconded by William Haase to adjourn the meeting. The motion carried unanimously.

**ADJOURNMENT** took place at 9:25 a.m.

  
\_\_\_\_\_  
President

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Secretary Assistant Secretary

  
\_\_\_\_\_  
Date

**GENERAL MANAGER'S REPORT**  
**Ridge Utilities, Inc.**  
**July 21, 2018**

Ladies and Gentlemen, the narrative of Ridge Utilities/BRPOA Staff activities for the period of May 7, 2018 through July 13, 2018 and projected items for the months of July through November, 2018 are included for your review and/or questions.

- All routine testing as required by VDH was completed, submitted and received approval.
- Jessica submitted the May and June, 2018 Water Usage Reports to VDH.
- Staff made preparations and attended the Joint Annual Meeting on May 19, 2018.
- Amy submitted the 2018 SCC RU Annual Report.
- Correspondence sent to Racy Engineering reference to Well 1 A design features and coordinated with them and VDH on the design for a proper enclosure. That design was submitted, reviewed, and approved by Staff and the RU President and submitted to Atlantic Pump for a proposal. Item appears on the agenda for today's meeting.

- Correspondence sent to VDH relevant to the completion of noted items on their Bi-Annual Inspection Report! All repair items are completed, design of a new enclosure being produced by Racey Engineering and we requested their assistance with the note on ph levels in the system. To date no response received.
  
- The Water Tank at the North Well Site was inspected by Liquid Engineering Corporation and the report from that was very good. A copy is included with the GM report and was also mailed to VDH in Lexington.
  
- VDH completed a Source Water Assessment for RU informational and usable purposes. It was a very good report and included with the Correspondence Package.
  
- The guys had **21 leaks** during the months of , May, & June, 2018 with a total of **40** for the year to date. Several of these leaks occurred during the high 90 temperature days of June-July, 2018. (That Leak Report is attached.)
  
- Currently our OT budget is about 120%. There was one leak in January on a Saturday that expended \$842.77 of OT money. During May we experienced several problems with monitoring equipment at the North Well Site and had air issues with the tank on Nottingham. During the Month of May we expended \$1003.00. When you remove this \$1842.00 from the total expended, we would be about normal for the year.
  
- The guys read meters for second quarter, on June 11, 12, & 13, 2018 and invoices were mailed. Amy mailed appropriate correspondence related to this activity.

- A list of **50** from the **655** meters tested was compiled that are not functioning as they should and will be replaced per a schedule that is being developed. Four of those have been replaced.
- George Allen normally takes well readings every day and that report is distributed for review monthly. RU continues to be strong in well depths and water availability. System performed great during the July 4<sup>th</sup> week.

Respectfully Submitted,

A handwritten signature in cursive script, appearing to read "Dennis".

# Steel Potable Water Reservoir Inspection Report

Job Number: 52199

Utility: Ridge Utilities Incorporated

Tank: North side

Inspector: Joe Lombardi

Dive Controller: Ben komito

Date: 5/30/2018

**AMERICAN WATER WORKS ASSOCIATION**  
ANSI/AWWA M42 / D101-53

SSPC Legend		NACE Legend		AWS Legend	
Grade	Description	Grade	Description	Grade	Description
10	No Rusting, or <0.01% of surface is rusted	A	None	L	Satisfactory
9	Minor rusting, or <0.03% of surface is rusted	B	Uniform Surface Corrosion	M	Spatter
8	Isolated rust, <.01% of surface is rusted	C	Pitting	N	Porosity
7	Isolated rust, <.03% of surface is rusted	D	Concentration Cell Corrosion	O	Convexity / Concavity
6	Extensive rusting, <1% of surface is rusted	E	Galvanic Corrosion	P	Cracks
5	Approximately 3% of the surface is rusted	F	Stress Corrosion Cracking	Q	Inclusions
4	Approximately 10% of the surface is rusted	G	Erosion Corrosion	R	Incomplete Fusion
3	Approximately 17% of the surface is rusted	H	Intergranular Corrosion	S	Incomplete Penetration
2	Approximately 33% of the surface is rusted	I	Dealloying	T	Undercut
1	Approximately 50% of the surface is rusted			U	Underfill
0	Approximately 100% of the surface is rusted			V	Overlap
				W	Unable to evaluate

**QUADRANT 1      QUADRANT 2      QUADRANT 3      QUADRANT 4**

**INTERIOR RESERVOIR ROOF**

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Vents	10	A	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panels	10	A	L	10	A	L	10	A	L	10	A	L
Roof Support	10	A	L	10	A	L	10	A	L	10	A	L
Roof Gussets	10	A	L	10	A	L	10	A	L	10	A	L
Painting Ring	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Overall Coating Rating **Good**      Average Blister Diameter **N/A**      Average Pit Depth **N/A**  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

**INTERIOR RESERVOIR WALLS**

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Wall to Roof weld	10	A	L	10	A	L	10	A	L	10	A	L
Lower Ring Panels	10	A	L	10	A	L	10	A	L	10	A	L
Middle Ring Panels	10	A	L	10	A	L	10	A	L	10	A	L
Upper Ring Panels	10	A	L	10	A	L	10	A	L	10	A	L
Interior Ladder	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Overall Coating Rating **Good**      Average Blister Diameter **N/A**      Average Pit Depth **N/A**  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

**INTERIOR RESERVOIR FLOOR**

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Perimeter Weld	9	B	L	9	B	L	9	B	L	9	B	L
Floor Panels	10	A	N/A	10	N/A	N/A	10	N/A	N/A	10	N/A	N/A

Overall Coating Rating **Good**      Average Blister Diameter **N/A**      Average Pit Depth **N/A**  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

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# Steel Potable Water Reservoir Inspection Report

Job Number: 52199

Utility: Ridge Utilities Incorporated

Tank: North side

Inspector: Joe Lombardi

Dive Controller: Ben komito

Date: 5/30/2018

QUADRANT 1	QUADRANT 2	QUADRANT 3	QUADRANT 4
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## ~~INTERIOR RESERVOIR SUPPORT COLUMNS~~

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Column Structures	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Column Bases	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Column to Roof	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Overall Coating Rating ---- Average Blister Diameter N/A Average Pit Depth N/A  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

## ~~INTERIOR RESERVOIR PLUMBING COMPONENTS~~

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Inlet Plumbing	7	B	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Outlet Plumbing	8	D	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Manways	7	D	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Floor Drains	N/A	N/A	N/A	8	D	L	N/A	N/A	N/A	N/A	N/A	N/A
Interior Overflow	N/A	N/A	N/A	9	B	L	N/A	N/A	N/A	N/A	N/A	N/A

## ~~EXTERIOR RESERVOIR ROOF~~

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Vents	10	N/A	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roof Panels	10	N/A	L	10	N/A	L	10	N/A	L	10	N/A	L
Access Hatches	10	N/A	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Overall Coating Rating Good Average Blister Diameter N/A Average Pit Depth N/A  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

## ~~EXTERIOR RESERVOIR WALLS~~

	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS	SSPC	NACE	AWS
Wall to Roof Weld	9	B	L	9	B	L	9	B	L	9	B	L
Lower Ring Panels	9	B	L	9	B	L	9	B	L	9	B	L
Mid Ring Panels	9	B	L	9	B	L	9	B	L	9	B	L
Upper Ring Panels	9	B	L	9	B	L	9	B	L	9	B	L
Exterior Overflow	8	B	L	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Overall Coating Rating Good Average Blister Diameter N/A Average Pit Depth N/A  
 Coating Deficiencies: Blistering  Delamination  Chalking  Checking  Cracking  Growth  Pinholes  Staining  Sags/Runs

## ~~FOOTINGS / FOUNDATION~~

Footings / Foundations: Satisfactory <input checked="" type="checkbox"/>	Cracking <input type="checkbox"/>	Spalling <input type="checkbox"/>	Erosion/Exposed Aggregate <input type="checkbox"/>
Anchor Bolts: Satisfactory <input checked="" type="checkbox"/>	Loose <input type="checkbox"/>	Rusted Corroded <input type="checkbox"/>	(If excessive) Diameter =

## ~~TOWER SUPPORT STRUCTURES~~

Tower Legs/Columns: Satisfactory <input type="checkbox"/>	Alignment ----	Settling ----	Rust /Corrosion ----
Riser Pipe: Satisfactory <input type="checkbox"/>	Alignment ----	Frost Casing ----	Rust /Corrosion ----
Rods & Turnbuckles: Satisfactory <input type="checkbox"/>	Turnbuckle Tension ----	Rod Tension ----	Cotter Pins/Rod Nuts ----
Leg shoes/Brackets: Satisfactory <input type="checkbox"/>	Coating ----	Rust/Corrosion ----	Pitting/Cracking ----

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**Potable Water Reservoir Contamination, Health and Safety Report**

Job Number: 52199

Utility: Ridge Utilities Incorporated

Tank: North side

Inspector: Joe Lombardi

Dive Controller: Ben komito

Date: 5/30/2018

**Complies With: AWWA • OSHA • ANSI • NIOSH • NAVFAC • NFPAC****CONTAMINATION & HEALTH**

<b>Air Vents</b>	Type: MUSHROOM	#: 1	Screen Condition(s): Good
<b>Hatches</b>	Type: Round	#: 1	Secured Properly: Yes Properly Sealed: Yes
<b>Exterior Overflow</b>	Flapper: No	Screen: Yes	Gasket: Yes Condition: Good
<del>Cathodic Covers</del>	<del>In-Place: ----</del>	<del>#: ----</del>	<del>Gasket: ---- Properly Sealed: ----</del>
<b>Roof to Wall Joint</b>	Welded: Yes	Properly Sealed: Yes	
<b>Roof Integrity</b>	Holes: No	Cracking: No	Standing Water: No
<b>Wall Integrity</b>	Holes: No	Cracking: No	
<b>Manway Integrity</b>	Leaks: No	Condition: Good	
<b>Water Clarity</b>	General Appearance: CLEAR		Odor: NONE
<b>Floating Surface Debris</b>	Type: NONE		Source: N/A
<del>Hypalon Floating Cover</del>	<del>Condition: ----</del>	<del>Holes: ----</del>	<del>Tears: ----</del>
<del>Telemetry Penetrations</del>	<del>Properly Sealed: ----</del>		

**FACILITY SAFETY COMPLIANCE****Exterior Ladder**

<b>Overall Ladder</b>	Condition: Good	#: 1	Offset Landing: Yes	Height: 24"
<b>Vandal Guard</b>	Present: Yes	Vandal Guard Locked: Yes		
<b>Ladder Rails &amp; Rungs</b>	Condition: Good	Missing/Damaged Rungs: No		
<b>Rung Spacing &amp; Depth</b>	Spacing: 12" in. (max 12")	Toe Depth: 8" in. (min 7")		
<b>Rail Spacing &amp; Size</b>	Width: 2" in. (min 2")	Thickness: 1" in. (min 1/4")	Rail to Rail: 17" in. (min 16")	
<b>Safety Climb System</b>	Type: Cage	Condition: Good		
<b>Number &amp; Locations</b>	Wall: 1	Leg:	Roof:	Riser Pipe: Other:
<b>Ladder Attachments</b>	cage			

**Manways**

<b>Type and size</b>	Type: Round	#: 1	Size: 24" inches (24" - 18'x22" min)
<b>Support Structure</b>	Type: Bolted	Condition: Good	
<b>Number &amp; Locations</b>	Wall: 1	Roof:	Riser Pipe: Other:

**Hatches**

<b>Hatch Type &amp; Size</b>	Type: Oval	#: 1	Size: 24" in. (24" - 24"x15" min)
<b>Hatch &amp; Lid Lip Height</b>	Hatch: 2" in. (min 4")	Lid: 1" in. (min 2")	

**Balconies & Railing**

<b>Deck / Walkways</b>	Condition: Good	Width: 30"		
<b>Hand Rails</b>	Condition: Good	Height: 43" in. (min 42")	No. Rails: 2" (min 2)	
<b>Toe Rail</b>	Condition: Good	Height: 4" in. (min 4")		
<b>Welds / Attachments</b>	Condition: Good			

**Roof**

<b>Safety Tie-Off Points</b>	Condition: Good	#: 8+	
<del>Antennas</del>	<del>Type: ----</del>	<del>#: ----</del>	

**DISCLAIMER**

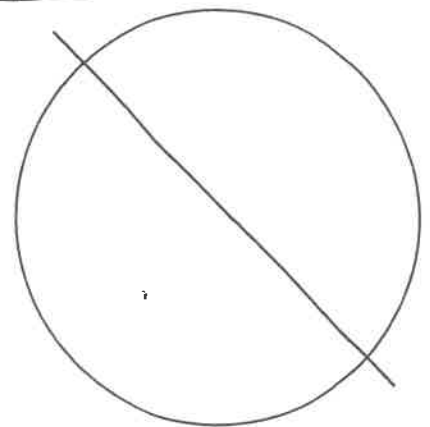
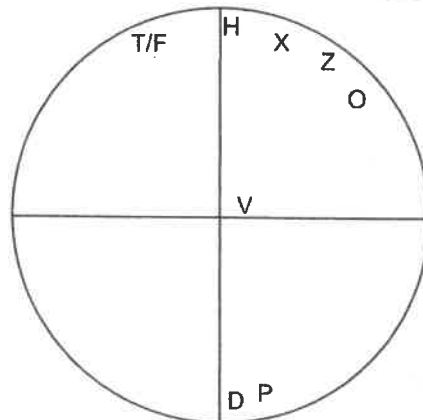
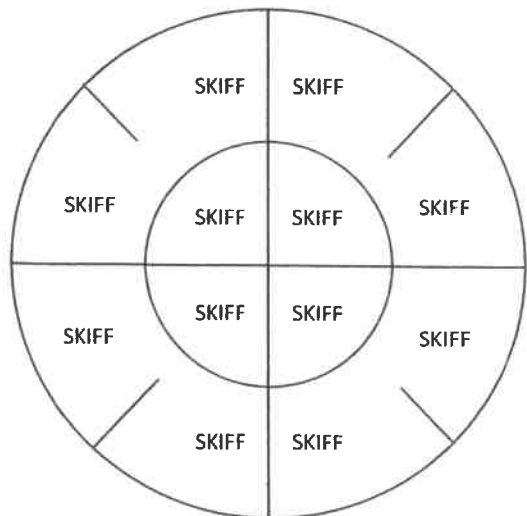
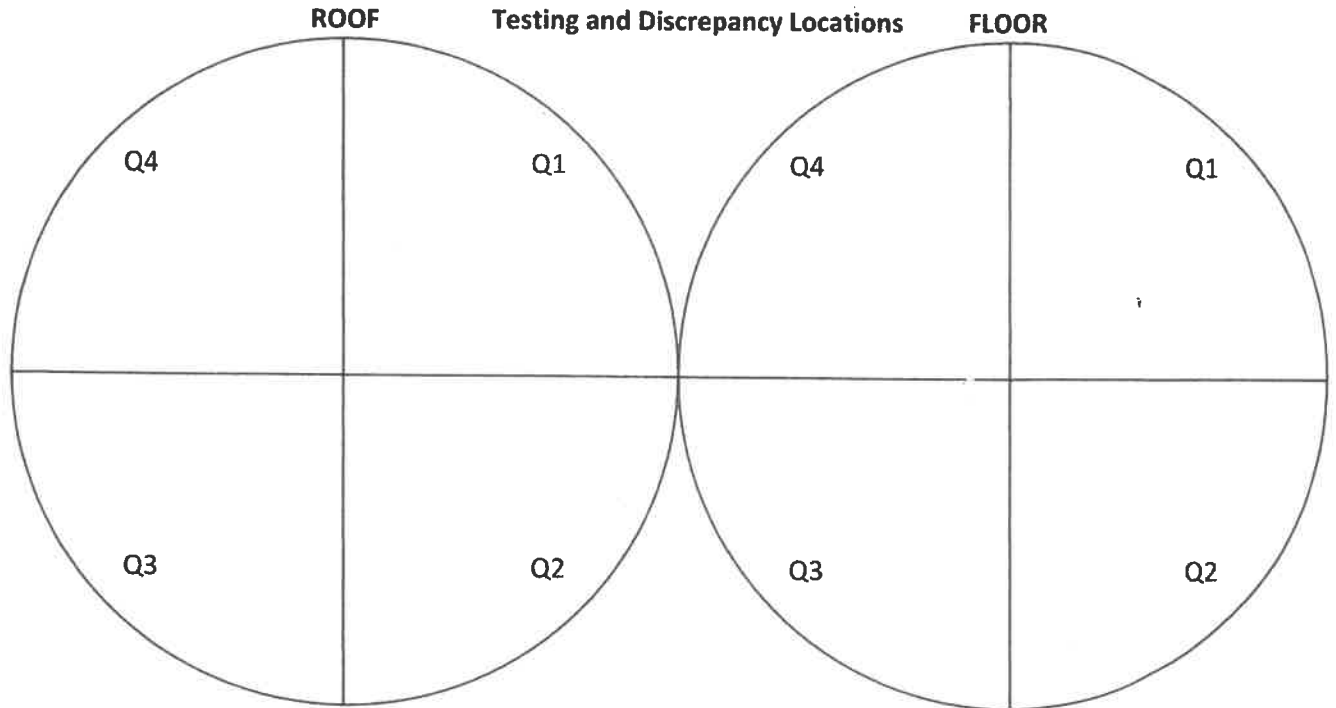
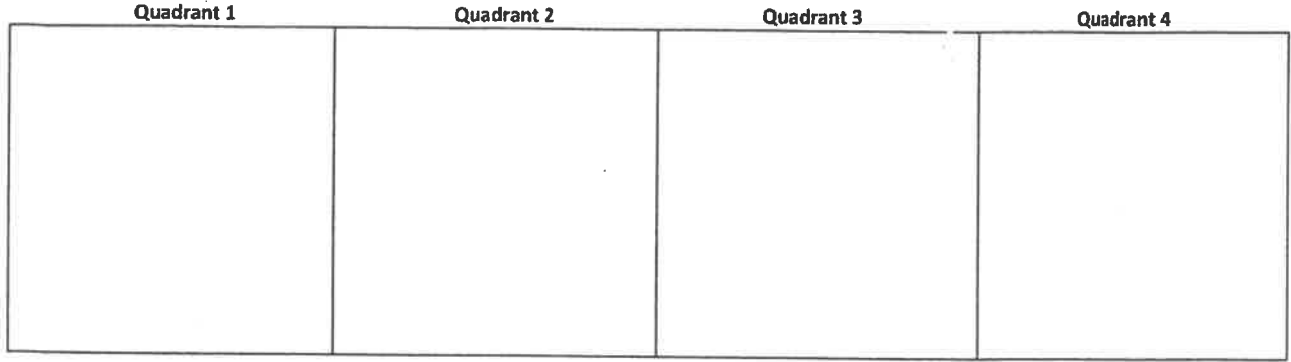
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Liquid Engineering Corporation  
**Circular Tank Diagram / Information Worksheet**

Job Number 52199

Utility Name Ridge Utilities Incorporated

Tank Name North side



**Sediment Depth Measurements**

Average Sediment Depth = The sum of all measurements taken, divided by the number of measurements taken

**Avg. Depth SKIFF    Cubic Yardage    Sediment Type IRON MANGANESE**

**Plumbing & Structure location**

Plumbing and structure codes  
 O=Outlet X=Inlet Z=Manway  
 V=Vent D=Drain S=Sump  
 L=Ladder H=Hatch P=Overflow  
 F=Float Level Indicator  
 T=Telemetry

**Column Placement**

Type of Column ○ □ I  
 Base Structure [ ] U Y I  
 Top Structure [ ] [ ] Y I  
 Column Construction -----

**DISCLAIMER**

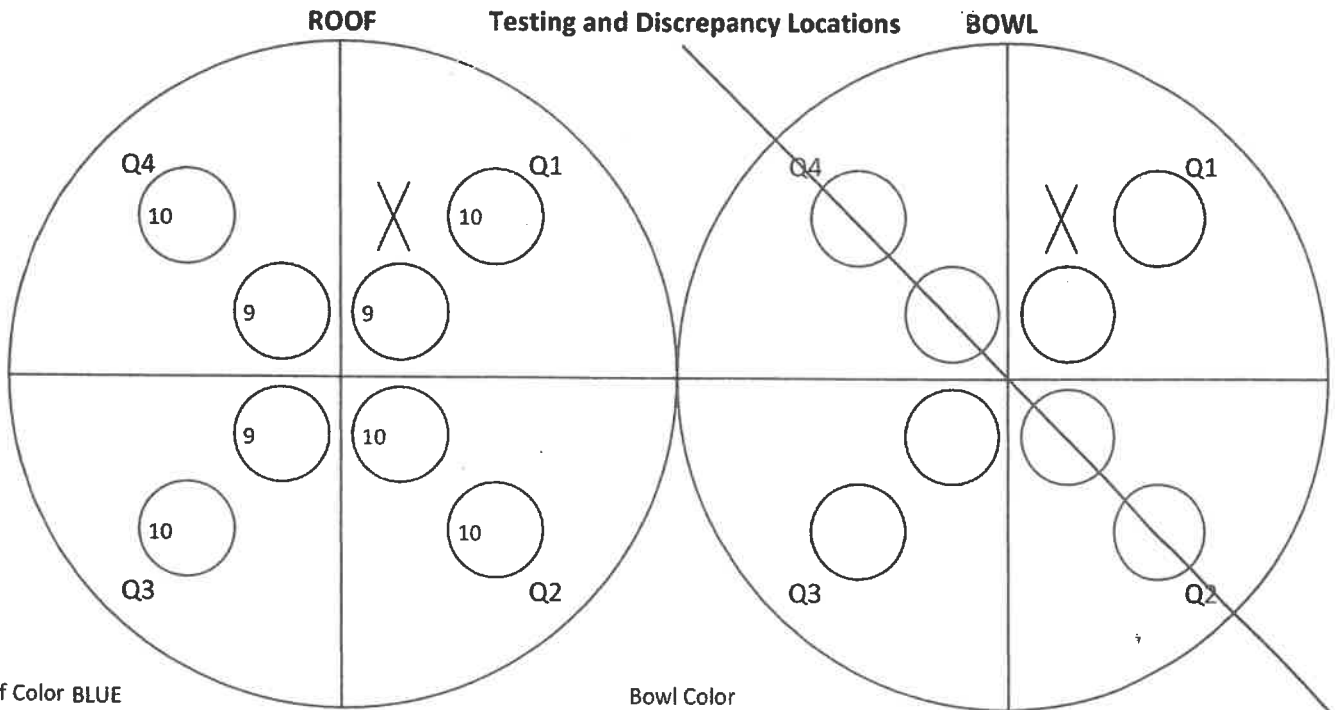
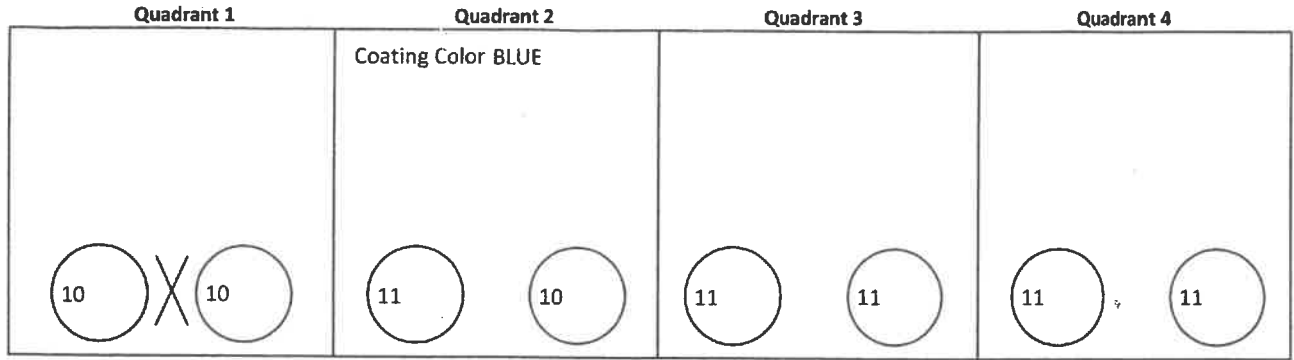
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**Circular Tank Diagram / NDT**  **DFT**  **Coating Adhesion**  **Presence of lead**

Job Number 52199

Utility Name Ridge Utilities Incorporated

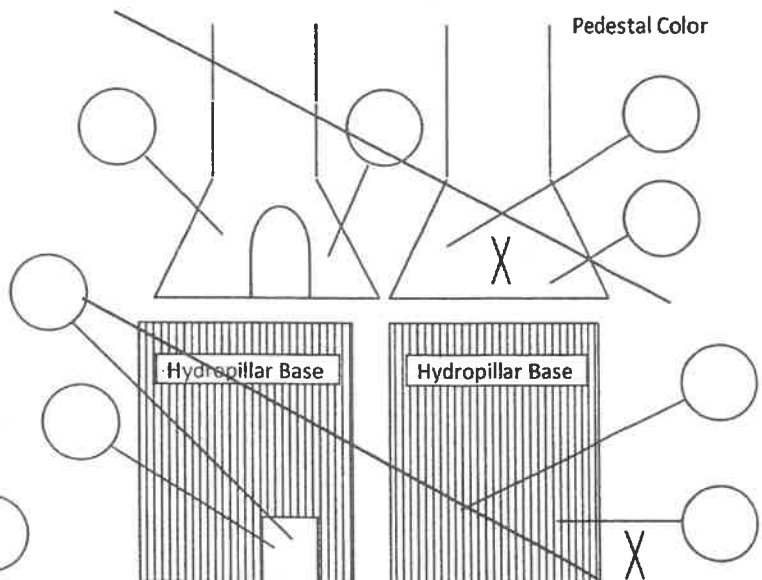
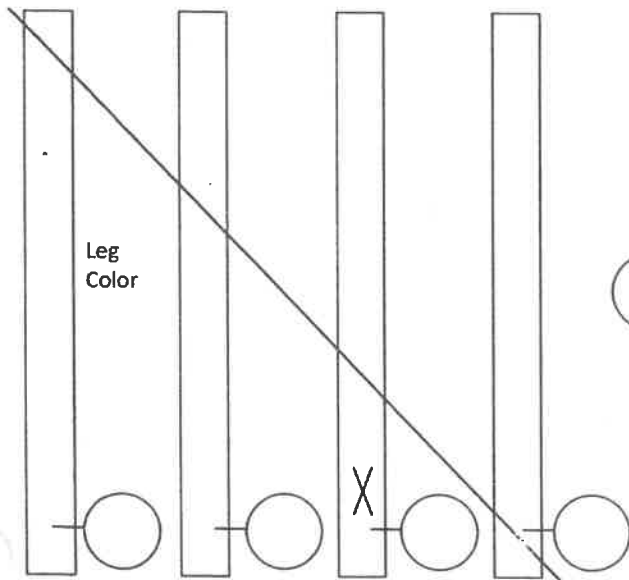
Tank Name North side



Roof Color BLUE

Bowl Color

Pedestal Color



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Liquid Engineering Corporation  
**Steel Potable Water Reservoir Security / Measurement Worksheet**

Job Number 52199

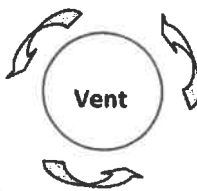
Utility Name Ridge Utilities Incorporated

Tank Name North side

**Security**

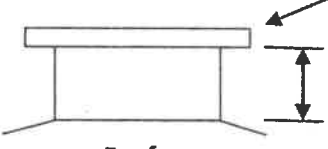
Is the area surrounding the tank well lit?	Yes
Is the tank surrounded by a Security Fence?	No
Are the access gates locked?	N/A
Is the tank equipped with a Vandal Guard on the primary access ladder?	Yes
If so, is the Vandal Guard locked?	Yes
Are the vents equipped with security vent shrouds?	No
Are all of the hatches equipped with electronic monitoring devices?	No
Are the external plumbing components housed in a secure vault or out-building?	Yes
Does the surrounding geography of the tank obscure it from public view?	No
Does the exterior of the tank show signs of trespass?	No

**Measurements**



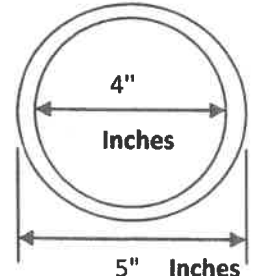
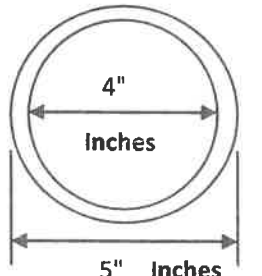
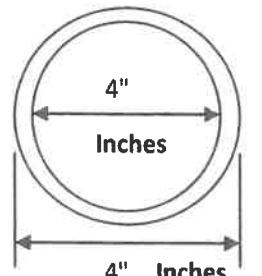
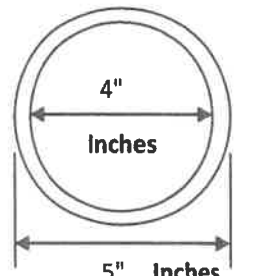
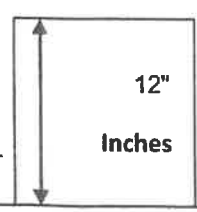
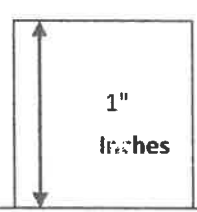
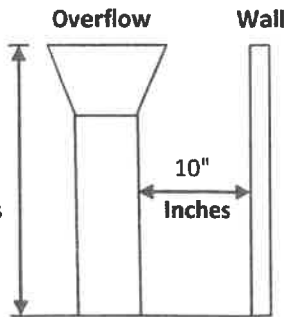
**Vent**

**Outside Circumference**  
48" Inches



**Roof**

<b>Flange Metal Thickness</b>	NA	Inches
<b>Roof to Screen or Flange</b>	8"	Inches
<b>Flange</b>	No	
<b>Number of Bolt Holes</b>	NA	Inches
<b>Size of Bolts</b>	NA	Inches

<b>Inlet</b>	<b>Outlet</b>	<b>Drain</b>	<b>Overflow</b>
			
<b>Inlet Riser</b>	<b>Outlet Riser</b>		<b>Overflow</b>
			
<b>Floor</b>	<b>Floor</b>		<b>Floor</b>

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Liquid Engineering Corporation  
**Steel Potable Water Reservoir Immediate Needs Assessment**

Job Number: 52199

Utility: Ridge Utilities Incorporated

Tank: North side

Inspector: Joe Lombardi

Dive Controller: Ben komito

Date: 5/30/2018

**1. Health and Safety Items**

- Safety Climb System Installation: NONE NEEDED
- Vent Screen Repairs: NONE NEEDED

**2. Testing Items**

- Dye Testing for Leak Evaluation: NOT PERFORMED
- Presence of Lead Test (Interior/Exterior): NOT PERFORMED

**3. Destructive Testing Items**

- % of Lead Test (Interior/Exterior) (*Coating samples are removed for laboratory analysis*) NOT PERFORMED
- Coating Adhesion Test (Interior/Exterior): NOT PERFORMED

*Specific written authorization required to perform destructive testing. Destructive tests include touch-up of coating system.*

**4. Repair Items**

- Epoxy Coating Repairs: NONE NEEDED
- Temporary Leak Repairs: NONE NEEDED
- Float Operated Level Indicator Repairs / Maintenance: NONE NEEDED
- Hypalon Repairs: NONE NEEDED

**5. Security Related Items** (*Critical security upgrade information is immediately available*)

- Tank vents are not equipped with a security vent shroud:
- Tank hatches are not equipped with a security hatch locking device:
- Tank perimeter not adequately secured:

The above mentioned additional work is considered immediately necessary and is recommended to be completed. Some items may be completed in conjunction with work currently being performed while the crew is on site.

## Reservoir Inspection Condition Supplemental

### SECURITY ITEMS CHECKED ABOVE

**Below are notables:**

The reservoir is in overall good condition. We removed an estimated "Skiff" of iron manganese sediment from the reservoir floor.

Entry Hatch- Had light staining and was latched upon leaving

Overflow- Had no notable defects with the screen intact.

Floor- Looked in excellent condition with only minor staining.

Roof- Had no notable defects and the panel bolts were sealed tightly.

Walls - Consisted of light staining.

Inlet- Had uniform surface corrosion around the base and staining through out.

Outlet- Was free of obstruction with concentration cell corrosion forming on the inside.

Drain- Had concentration cell corrosion forming on the inside.

Vent- Had no notable defects with the screen intact.

Manway- Secured properly with the gasket material intact and only small amounts of concentration cell corrosion.

Cathodic anodes- Had substantial life left in them and were in working order.

LEC RECOMMENDS A CLEAN AND INSPECT EVERY 3 TO 5 YEARS

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**2018 RIDGE UTILITIES, INC. ANNUAL LEAK REPORT**

<b>Month</b>	<b>Service Line</b>	<b>Water Main</b>	<b>Truck Damage Main Line</b>	<b>Couplings, Adapters, Ells, Tees, Gaskets</b>	<b>Cut Off Valve</b>	<b>Meter</b>	<b>Homeowner's Line</b>	<b>Total Y-T-D</b>
<b>January</b>	<b>2</b>			<b>1</b>		<b>5</b>	<b>6</b>	<b>14</b>
<b>February</b>						<b>1</b>		<b>1</b>
<b>March</b>	<b>1</b>	<b>1</b>				<b>1</b>		<b>3</b>
<b>April</b>	<b>1</b>							<b>1</b>
<b>May</b>	<b>8</b>				<b>1</b>	<b>2</b>		<b>11</b>
<b>June</b>	<b>6</b>	<b>2</b>				<b>1</b>	<b>1</b>	<b>10</b>
<b>July</b>								
<b>August</b>								
<b>September</b>								
<b>October</b>								
<b>November</b>								
<b>December</b>								
<b>Y-T-D Totals</b>	<b>18</b>	<b>3</b>		<b>1</b>	<b>1</b>	<b>10</b>	<b>7</b>	<b>40</b>