

LS # 3

Roth Professional Solutions

LIFT STATION CONDITION ASSESSMENT FORMAssessment Date: **25 April 2023**Location: **2361 Tower Rd, Kronenwetter, WI**Municipality: **Village of Kronenwetter**LS Type: **Dry Pit Vacuum Prime Duplex**Engineer: **Roth Professional Solutions**Technical & Equipment Assistance: **B&M Technical Services**

House Keeping: ☒ Good ☐ N/A ☐ Poor Lighting ☐ Tripping Hazards Present ☐ No Fall Protection ☐ Exposure to Raw Wastewater in Dry Well
☐ Sump Pump Inoperable ☐ Electric Space Heater Inoperable ☐ Potential for Shock or Electrocution ☐ Other

Health and Safety Issues: **None**Other Observations: **USEMCO ORIGINAL / LWALLEN 2016 refurbished**

Asset Class	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Field Observations/Comments
Site Improvement (SIM)					
* Access Driveway	<input checked="" type="checkbox"/>				
* Parking	<input checked="" type="checkbox"/>				
* Gate and Fencing	<input type="checkbox"/>				
* Site Drainage	<input checked="" type="checkbox"/>				
* Grounding System	<input type="checkbox"/>				
* Site Lighting	<input type="checkbox"/>				
* Site Alarm Horn and Strobe Lighting	<input checked="" type="checkbox"/>				on building
General Site Electrical Observations					
Access Driveway Details: <input type="checkbox"/> Gravel or aggregate basecourse only <input type="checkbox"/> Concrete Pavement <input checked="" type="checkbox"/> Bituminous Pavement Parking Details: <input type="checkbox"/> None <input type="checkbox"/> Gravel <input checked="" type="checkbox"/> Paved Fence Details: <input type="checkbox"/> Chain Link <input type="checkbox"/> Other Fencing Height (ft): Fencing Length (ft): Gate Type: <input type="checkbox"/> Single <input type="checkbox"/> Double N/A Traffic: <input type="checkbox"/> Other <input type="checkbox"/> Site too Close to Traffic N/A Grounding System Details : <input type="checkbox"/> Present <input type="checkbox"/> Grounding Rings <input type="checkbox"/> Grounding Rods N/A If applicable, approximate parking area: N/A If applicable, approximate site area: N/A Other Notes: Pin Valve Issues on Vacuum Doesn't stay primed; 3 Phase 208					

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Structure and Wetwell (PST)							
* Building		<input type="checkbox"/>	*				*Sampling Bldg onsite w/generator hooku
Building Structures: <input checked="" type="checkbox"/> None <input type="checkbox"/> Concrete Walls <input type="checkbox"/> Concrete Floor <input type="checkbox"/> Doors Total Floor Area: Plan Floor Area: Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Roof Degraded <input type="checkbox"/> Doors and Security Failing <input checked="" type="checkbox"/> Needs Paint <input type="checkbox"/> Cracks on the Wall <input type="checkbox"/> Cracks on the Floor <input type="checkbox"/> Other							
* Odor Control		<input checked="" type="checkbox"/>					NONE
Odor Details: <input checked="" type="checkbox"/> Vent Pipe <input type="checkbox"/> Other <input type="checkbox"/> Details Field Observations: <input checked="" type="checkbox"/> Operational and in use <input type="checkbox"/> On site, but not required <input type="checkbox"/> Does not operate, needs repair <input type="checkbox"/> Other							
* Crane/Hoist		<input checked="" type="checkbox"/>	*				*Lift Chain/Roller
Crane Details: Manufacturer: Model: Serial Number: Field Observations: <input type="checkbox"/> Good operating condition <input type="checkbox"/> Does not operate, requires repair <input type="checkbox"/> Mounting Hardware intact <input checked="" type="checkbox"/> Other *Requires Red Lift Truck or Portable Lift							
* Bar Screen or Comminuter	N/A	<input type="checkbox"/>					
System Description: <input type="checkbox"/> No Bar Screen <input type="checkbox"/> Manually Raked Bar Screen <input type="checkbox"/> Mechanically Raked Bar Screen <input type="checkbox"/> Screen Bypass Provided? Mechanical Bar Screens: <input type="checkbox"/> Manufacturer: Model: Serial Number: Power Requirements (hp): Odor Details: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Screens need frequent cleaning <input type="checkbox"/> Short response time <input type="checkbox"/> Odor fly nuisance <input type="checkbox"/> Screens not in use <input type="checkbox"/> Other							
* Flow Meter	N/A	<input type="checkbox"/>					
Type: <input type="checkbox"/> N/A Type: Manufacturer: Model: Serial Number: Flow Meter Field Observations: <input type="checkbox"/> Operational <input type="checkbox"/> Location <input type="checkbox"/> Other							
* Wet Well		<input checked="" type="checkbox"/>					Lower Wet Well is Concrete
Walls: <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fiberglass Slab/Cover: <input type="checkbox"/> Reinforced Concrete <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Pumps, motors and electric panel are mounted on cover/slab directly over wet well Pump Control System: <input checked="" type="checkbox"/> Floats <input type="checkbox"/> Bubbler System <input type="checkbox"/> Ultrasonic & Transducer Measurement (PPM): Wet Well Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> PN/A <input type="checkbox"/> Hatch Damaged or Difficult to Open <input type="checkbox"/> Wet Structure Spalling or Cracked <input type="checkbox"/> Evidence of Concrete Corrosion <input type="checkbox"/> Wet Well Needs Cleaning - Solids/Grease <input type="checkbox"/> Other Hatch Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Minor Corrosion to Hatches, Hinges, or Latches <input type="checkbox"/> Poor: Corroded or Broken Hatches, Hinges, or Latches <input type="checkbox"/> Other							
Wet Well Ladder Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion; Steps Intact and Solid; Minor Anchor Bolt Corrosion <input type="checkbox"/> Poor: Corroded or Broken Steps; Corroded or Broken Wall Anchors <input checked="" type="checkbox"/> Other N/A							
Wet Well Wall Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface Painted Concrete Lower Wet Well Okay <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input checked="" type="checkbox"/> Other Painted Metal Upper Losing Paint w/Corro							
Slab/Cover Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete or Aluminum Grate Slightly Corroded But Safe <input type="checkbox"/> Poor: Concrete Aggregate Missing/Exposed; Grate Corroded or Warped; Debris Over Platform <input type="checkbox"/> Other							

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Influent Pipe Observations: <input type="checkbox"/> Good <input type="checkbox"/> Fair: Slight Corrosion; Pipe Intact <input type="checkbox"/> Poor: Severe Pipe Corrosion <input type="checkbox"/> Other							
Alarm Float Observations: <input type="checkbox"/> Good <input checked="" type="checkbox"/> Fair: Some Grease But Operating Properly <input type="checkbox"/> Poor: Covered in Grease or Broken <input checked="" type="checkbox"/> Other Grease							
Pump Vent Line Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Slight Corrosion But Operates Properly; Needs Sealant Around Opening <input type="checkbox"/> Poor: Any One Vent Does Not Operate; Corroded or Broken Off at Wall <input type="checkbox"/> Other							
* Dry Well		<input checked="" type="checkbox"/>					
Location Type: <input type="checkbox"/> None <input checked="" type="checkbox"/> Underground pump vault with access tube and ladder <input type="checkbox"/> Located below grade inside building Lighting: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cathodic Protection <input type="checkbox"/> Not Required <input type="checkbox"/> None <input type="checkbox"/> Yes							
Access Tube and Ladder Field Observations: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion; Steps Intact and Solid; Minor Anchor Bolt Corrosion <input type="checkbox"/> Poor: Corroded or Broken Steps; Corroded or Broken Wall Anchors <input type="checkbox"/> Other							
Underground Vault Observations: <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Good <input type="checkbox"/> Fair: Surface Corrosion <input type="checkbox"/> Poor: Corrosion <input checked="" type="checkbox"/> Other Floor Corroded but OK							
Building Floor Slabs: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Staircases/Stairwells: <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input type="checkbox"/> Other							
Building Walls: <input type="checkbox"/> N/A <input type="checkbox"/> Good <input type="checkbox"/> Fair: Concrete Sealant Peeled or Cracked; Concrete Soft at Surface <input type="checkbox"/> Poor: Exposed/Missing Aggregate; Exposed/Missing Re-bar <input checked="" type="checkbox"/> Other N/A							
Sump Pump: <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes Type _____ Model: _____ Power (hp): _____ TDH: _____ Serial: _____ Field Observations: <input type="checkbox"/> Not Operational <input type="checkbox"/> Poor Floor Drainage <input checked="" type="checkbox"/> Other OK-No Apparent Issues							
* Cathodic Protection		<input type="checkbox"/>					Assumed Yes (not visible)
Field Observations: <input type="checkbox"/> Disconnected <input type="checkbox"/> Other							
HVAC (HVA)							
* Dry Well HVAC		<input checked="" type="checkbox"/>					HTR Electrical
Asset Size: _____ Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Old <input type="checkbox"/> Ventilation Inoperable <input type="checkbox"/> Makes Noise <input type="checkbox"/> Fans Vibrate <input type="checkbox"/> Ventilation Duct Work Corroded <input type="checkbox"/> Belts Loose or Torn <input type="checkbox"/> Louvers <input type="checkbox"/> Roof Vents <input type="checkbox"/> Other							
* Wet Well HVAC		<input type="checkbox"/>					None
Asset Size: _____ Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Old <input type="checkbox"/> Ventilation Inoperable <input type="checkbox"/> Makes Noise <input type="checkbox"/> Fans Vibrate <input type="checkbox"/> Belts Loose or Torn <input type="checkbox"/> Ventilation Duct Work Corroded <input type="checkbox"/> Louvers <input type="checkbox"/> Roof Vents <input type="checkbox"/> Other							
Electrical Systems (ELE)							
* Control Panel		<input checked="" type="checkbox"/>					
Asset Size (Volts) 208 (Volts) <input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three Phase Manufacturer: _____ Model: _____ Serial Number: _____ Power Supply Manufacturer: _____ Model: _____ Type: _____							

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Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Shop Drawings Available <input type="checkbox"/> UL Listed <input type="checkbox"/> Uncovered Holes <input type="checkbox"/> Surge Protection <input type="checkbox"/> Grounded <input type="checkbox"/> Wiring Labelled <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Lighting Panel		<input checked="" type="checkbox"/>					
Asset Size (Volts) Manufacturer: Interanal Model: Square D Serial Number: N/A							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Bus and/or lugs corroded <input type="checkbox"/> Spare Spaces Available <input type="checkbox"/> Breakers Labelled <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Main Switch		<input checked="" type="checkbox"/>					
Asset Size (Volts) Manufacturer: Square D Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Transfer Switch	Manual	<input checked="" type="checkbox"/>					
Asset Size (Volts) 208 VAC 3 Phase Manufacturer: OE Model: N/A Serial Number: N/A							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Motor Control Center	N/A	<input type="checkbox"/>					
Asset Size (Volts) Manufacturer: Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Junction Box		<input type="checkbox"/>					
Asset Size (Volts) 24x36x8 208 VAC Manufacturer: Square D Model: Duplex Serial Number: 5776							
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							
* Miscellaneous Panel 1	N/A	<input type="checkbox"/>					
Asset Size Manufacturer: Model: Serial Number:							
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> Panel Corroded <input type="checkbox"/> Old / Outdated / Obsolete <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued Checked <input type="checkbox"/> Dust Inside Panel <input type="checkbox"/> Exposed Wires <input type="checkbox"/> Switch Gear Worn <input type="checkbox"/> Lugs Corroded <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled <input type="checkbox"/> Other							

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments					
Generator (GEN)												
* Emergency Generator	N/A	<input type="checkbox"/>										
* Emer. Gen. Connector		<input checked="" type="checkbox"/>										
Asset Size:	Manufacturer:	Model:	Serial:	Generator Type:								
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Contacts Loose <input type="checkbox"/> Cables Fatigued	Checked <input type="checkbox"/> Engine Fluids Low <input type="checkbox"/> Poor Housekeeping	<input type="checkbox"/> Poor Accessibility <input type="checkbox"/> Panel Grounded <input type="checkbox"/> Panel Labelled	<input type="checkbox"/> Diesel Containment <input type="checkbox"/> Other								
Instrumentation (INS)												
* Auto Dialer		<input type="checkbox"/>										
Manufacturer:	Model:	Phone Number:										
Alarms:	<input type="checkbox"/> High Level <input type="checkbox"/> Low Level <input type="checkbox"/> Generator Running <input type="checkbox"/> Power Fail <input type="checkbox"/> Other											
* Float Controls	back up	<input type="checkbox"/>	2 float									
* Bubbler Controls		<input type="checkbox"/>										
Manufacturer:	Mercoird	Model:	MPC Junior									
* Ultrasonic Controls	Primary	<input type="checkbox"/>										
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Bubbler Compressor Failing <input type="checkbox"/> Air Lines Clogged / Full of Moisture	<input type="checkbox"/> Drain Condensate Traps in Air System <input type="checkbox"/> Floats Tangled <input type="checkbox"/> Controls Obsolete <input type="checkbox"/> Other										
SCADA (SCA)												
Field Observations:	<input type="checkbox"/> Good <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Obsolete <input type="checkbox"/> Other	1400 Allen Bradley PLC MDS Radio 4710 SD4										
Variable Frequency Drive												
* Control Panel - VFD		<input type="checkbox"/>										
* Harmonic Filter		<input type="checkbox"/>										
* Output Filter		<input type="checkbox"/>										
Asset Size:	Manufacturer:	Model:	Observed RPM:									
Field Observations:	<input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Obsolete <input type="checkbox"/> Panel Corroded / Dusty / Leaky <input type="checkbox"/> Other											
Motors (MTR)												
* Motor 1		<input type="checkbox"/>										
Asset Size (HP)	3	Manufacturer:	Marathon Electric	Model:	RVB	Serial Number:	N/A					
Field Observations:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Vibrates <input type="checkbox"/> Shaft Bearing Noise <input type="checkbox"/> Opposite End Bearing Noise	<input type="checkbox"/> Overheating <input type="checkbox"/> Needs Lubrication <input type="checkbox"/> Over Lubricated <input type="checkbox"/> Mount Failing <input type="checkbox"/> Leaking	<input type="checkbox"/> Emergency Stop Button in Dry Well Inoperable <input type="checkbox"/> Other									
* Motor 2		<input type="checkbox"/>										
Asset Size (HP):	3	Manufacturer:	Marathon Electric	Model:	Same	Serial Number:	N/A					
Field Observations:	<input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Makes Noise <input type="checkbox"/> Vibrates <input type="checkbox"/> Shaft Bearing Noise <input type="checkbox"/> Opposite End Bearing Noise	<input type="checkbox"/> Overheating <input type="checkbox"/> Needs Lubrication <input type="checkbox"/> Over Lubricated <input type="checkbox"/> Mount Failing <input type="checkbox"/> Leaking	<input type="checkbox"/> Emergency Stop Button in Dry Well Inoperable <input type="checkbox"/> Other									

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Asset Class	CMMS Code	Asset Present	Year Installed	Cond. Rank	Perf. Rank	Utiliz. (%)	Field Observations/Comments								
Hor/Vert Centrifugal Pumps															
* Pump 1		<input checked="" type="checkbox"/>													
Manufacturer: Fairbanks		Model: 2016		Serial Number:											
Discharge Size (in) 4"	Suction Diameter (in)	Pump Size (GPM)		TDH											
Priming Pump <input checked="" type="checkbox"/>	Manufacturer:	Model:		Serial No.:		Size (hp):									
Pressure Gauge <input type="checkbox"/>	Manufacturer:	Pressure Range:		Pressure Reading:											
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Seals Leaking <input type="checkbox"/> Vibrating <input type="checkbox"/> Shaft Deflection <input type="checkbox"/> Cavitating <input type="checkbox"/> Belts Loose <input type="checkbox"/> Bearing Noise <input type="checkbox"/> Mount Failing <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other															
* Pump 2	4"	<input checked="" type="checkbox"/>													
Discharge Size (in)		Suction Diameter (in)		Pump Size (GPM)		TDH									
Priming Pump <input checked="" type="checkbox"/>	Manufacturer:	Model: 2016		Serial No.:		Size (hp):									
Pressure Gauge <input type="checkbox"/>	Manufacturer:	Pressure Range:		Pressure Reading:											
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Seals Leaking <input type="checkbox"/> Vibrating <input type="checkbox"/> Shaft Deflection <input type="checkbox"/> Cavitating <input type="checkbox"/> Belts Loose <input type="checkbox"/> Bearing Noise <input type="checkbox"/> Mount Failing <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other															
Submersible Pumps (SUB)															
* Pump 1	N/A	<input type="checkbox"/>													
Manufacturer:		Model:		Serial:											
Discharge Size (in)		Suction Diameter (in)		Pump Size (GPM)		TDH									
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Rail System Corroded <input type="checkbox"/> Does Not Seat Well <input type="checkbox"/> Cables Corroded or Failing <input type="checkbox"/> Other															
* Pump 2	N/A	<input type="checkbox"/>													
Manufacturer:		Model:		Serial:											
Discharge Size (in)		Suction Diameter (in)		Pump Size (GPM)		TDH									
Field Observations: <input type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Rail System Corroded <input type="checkbox"/> Does Not Seat Well <input type="checkbox"/> Cables Corroded or Failing <input type="checkbox"/> Other															
Check Valves															
* Pump 1		<input checked="" type="checkbox"/>													
Size (in): 4"	Manufacturer:	Model:		Serial No:											
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking <input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain <input type="checkbox"/> Other															
* Pump 2		<input type="checkbox"/>													
Size (in): 4"	Manufacturer:	Model:		Serial No:											
Field Observations: <input checked="" type="checkbox"/> Good <input type="checkbox"/> N/A <input type="checkbox"/> Valve Operator Stuck <input type="checkbox"/> Valve Seat Leaking <input type="checkbox"/> Flanges Leaking <input type="checkbox"/> Other <input type="checkbox"/> Check Valve Not Seating <input type="checkbox"/> Check Valve Not Operating <input type="checkbox"/> Evidence of Pipe Strain															

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Piping and Valves Suction Isolation Valves							
* Pump 1	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good	<input type="checkbox"/> N/A	<input type="checkbox"/> Valve Operator Stuck	<input type="checkbox"/> Valve Seat Leaking	<input type="checkbox"/> Flanges Leaking		
	<input type="checkbox"/> Check Valve Not Seating	<input type="checkbox"/> Check Valve Not Operating		<input type="checkbox"/> Evidence of Pipe Strain			
	<input type="checkbox"/> Other						
* Pump 2	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good	<input type="checkbox"/> N/A	<input type="checkbox"/> Valve Operator Stuck	<input type="checkbox"/> Valve Seat Leaking	<input type="checkbox"/> Flanges Leaking		
	<input type="checkbox"/> Check Valve Not Seating	<input type="checkbox"/> Check Valve Not Operating		<input type="checkbox"/> Evidence of Pipe Strain			
	<input type="checkbox"/> Other						
Discharge Isolation Valves							
* Pump 1	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good	<input type="checkbox"/> N/A	<input type="checkbox"/> Valve Operator Stuck	<input type="checkbox"/> Valve Seat Leaking	<input type="checkbox"/> Flanges Leaking		
	<input type="checkbox"/> Check Valve Not Seating	<input type="checkbox"/> Check Valve Not Operating		<input type="checkbox"/> Evidence of Pipe Strain			
	<input type="checkbox"/> Other						
* Pump 2	N/A	<input type="checkbox"/>					
Size (in):	Manufacturer:	Model:	Serial No:				
Field Observations:	<input type="checkbox"/> Good	<input type="checkbox"/> N/A	<input type="checkbox"/> Valve Operator Stuck	<input type="checkbox"/> Valve Seat Leaking	<input type="checkbox"/> Flanges Leaking		
	<input type="checkbox"/> Check Valve Not Seating	<input type="checkbox"/> Check Valve Not Operating		<input type="checkbox"/> Evidence of Pipe Strain			
	<input type="checkbox"/> Other						