

Hilltop Pump Station

General Site and Safety Considerations

Wednesday, December 02, 2015

GENERAL SITE CONDITION/ACCESS

Vehicle Entrance and Exit to Site	Adjacent to Hilltop Drive
Parking	On street
Sight lighting Fixture	None

SAFETY CONSIDERATIONS

General Site Safety Issues	No issues noted
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SITE SECURITY

Facility Fenced	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Privacy Fence	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
Fence Material	Steel gate and vinyl fence	Height of Fence	6 feet
Method of Securing Access Gates	Chain and padlock	Fence Topping	None
Adequate security for keeping public off site?	No. Homeless people enter site on occasion for a place to sleep		

Notes:



General Site Photos

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Site from across Hilltop Drive, looking down to Harbeck Drive



Site from across Hilltop Drive



View from below site



Meter vault at station entrance



Common system pressure tank



Two stations, clam shell was first



Initial station



Backside of site from inside fencing



Station control panels

Equipment Housing

Wednesday, December 02, 2015

Equipment Housing 1	<input checked="" type="checkbox"/> Building	<input checked="" type="checkbox"/> Enclosure	<input type="checkbox"/> Other
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Condition	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
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Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
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Serviceability	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
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Structural Materials	Fiberglass clam shell
Age	Installed 2008

Locking Doors	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Intrusion Alarm	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Dimensions:

Length	6	ft
Width	6	ft

HVAC:

Heat	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cooling	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Humidity Control	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Fan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Equipment Housing 2	<input checked="" type="checkbox"/> Building	<input checked="" type="checkbox"/> Enclosure	<input type="checkbox"/> Other
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Condition	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
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Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input type="checkbox"/> 4
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Serviceability	<input type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
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Structural Materials	Fiberglass housing
Age	Installed 2010

Locking Doors	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Intrusion Alarm	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Dimensions:

Length	8	ft
Width	12	ft

HVAC:

Heat	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Cooling	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Humidity Control	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Fan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No



Equipment Housing Photos

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Initial station, fiberglass clam shell



Pump control side of station



New, larger fiberglass station housing



Main access door to new station



Inside of new, larger fiberglass structure

Flow Meter and Vault(s)

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Flow Meter	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
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Condition	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input checked="" type="checkbox"/> 5
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Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
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Serviceability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4
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Asset Nos.	
Location	In vault
Type/Manufacturer	Unknown
Age	Installed 2010

Vault	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
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Description	Meter vault
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Structural Materials	Concrete with steel hatch
Dimensions	4' x 4' x ~8' deep
Age	Installed 2010

Access Hatch Fall Protection	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Access Hatch Lock	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Intrusion Alarm	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

Notes:

Meter is inaccurate, likely due to low velocities.



Flow Meter and Vault(s) Photos

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Flow meter vault access hatch



Flow meter on 6" line and 2" line isolation valve

HILLTOP #1

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Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 1

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-1
Manufacturer	CORNELL
Model	1 1/4 W5-2
Serial #	151806 5.88
Age	Installed 2008

Rated Design Pt 100 gpm @ 120 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 5 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2008

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Cla-Val	
Age	Installed 2008	
Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-1-1, FV-7-17-1-2	
Type/Manufacturer	BV/Grinnell 2"	
Age	Installed 2008	
Pressure Gauge(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.		
Type/Manufacturer	Ashcroft - common system gauge	
Age	Installed 2008	

Notes:

FV-7-17-5-1	Hilltop Pump Station Press Relief Influent Isolation Valve	Henry Pratt	4"	18-Feb-10	Butterfly Valve
FV-7-17-5-2	Hilltop Pump Station Press Relief Effluent Isolation Valve	Henry Pratt	4"	18-Feb-10	Butterfly Valve
FV-7-17-6-1	Hilltop Pump Station PRV Effluent Isolation Valve	Henry Pratt	2"	18-Feb-10	Butterfly Valve
FV-7-17-7-1	Hilltop Pump Station Pressure Tank Isolation Valve	Henry Pratt	2"	18-Feb-10	Butterfly Valve



Piping

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Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"/8"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Galvanized steel
Age	Installed 2008

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Galvanized steel
Age	Installed 2008

Notes:

Some corrosion observed. Potentially just external, but should be investigated and coating repaired.



Pump/Valve/Piping Photos

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Pumping System No. 1



Initial pump station control panel



Initial pump station suction and discharge piping





Pumping System No. 1 pump control valve

HILLTOP #1B

Wednesday, December 02, 2015

Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 1B

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-1B
Manufacturer	Grundfos
Model	CR5
Serial #	A96523173-P10941075
Age	Installed 2010

Rated Design Pt 53 gpm @ 191 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 5 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2010

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.
Asset Nos.	PRV-7-17-1B
Type/Manufacturer	Angle Cla-Val with silent check upstream
Age	Installed 2010

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.
Asset Nos.	FV-7-17-1B-1, FV-7-17-1B-2
Type/Manufacturer	Bray 1/4 turn butterfly
Age	Installed 2010

Pressure Gauge(s)	<input type="checkbox"/> Yes <input type="checkbox"/> No
Asset Nos.	PIT-7-17-1B Suction Pressure Transmitter
Type/Manufacturer	Pressure Transmitter/SITRANS
Age	Installed 2010

Notes:

PRV-7-17-5 Hilltop Pump Station Pressure Relief Valve Cla-Val



Piping

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Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	10"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	3"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Stainless steel
Age	Installed 2010

Common Discharge Pipe

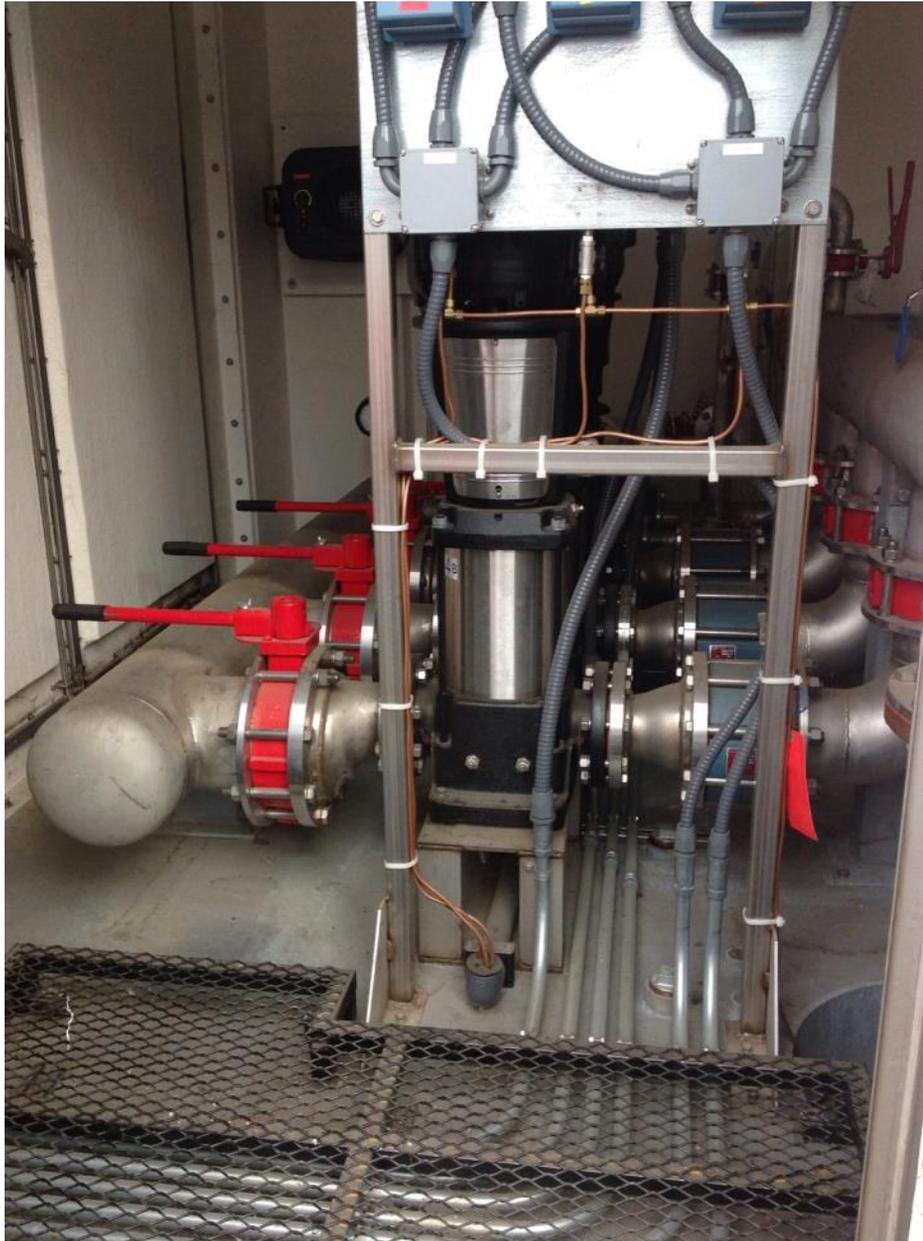
Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Notes:



Pump/Valve/Piping Photos

Wednesday, December 02, 2015



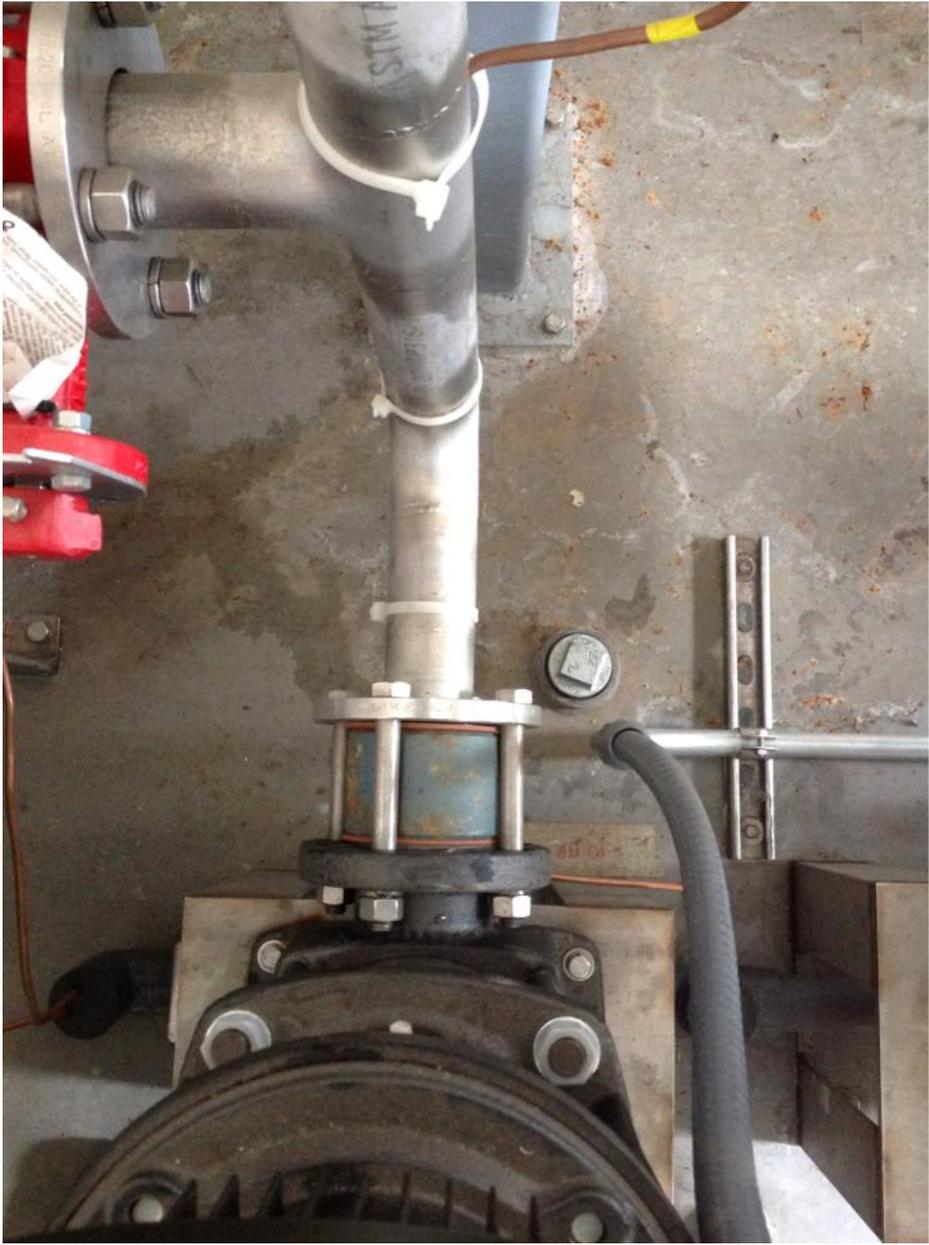
Second pump station configuration



Pumping System No. 1B



Pumping System No. 1B pump nameplate



Pumping System No. 1B discharge wafer check valve



Pumping System No. 1B discharge isolation and pressure relief valve



Second pump station pressure relief valve

HILLTOP #2

Wednesday, December 02, 2015

Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 2

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-2
Manufacturer	CORNELL
Model	1 1/4 V71/2-2
Serial #	55517
Age	Installed 2008

Rated Design Pt 150 gpm @ 120 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 7.5 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2008

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Cla-Val	
Age	Installed 2008	

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-2-1, FV-7-17-2-2	
Type/Manufacturer	BV/Grinnell 2"	
Age	Installed 2008	

Pressure Gauge(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.	See pumping system no. 1 for common gauge information	
Type/Manufacturer		
Age		

Notes:



Piping

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Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"/8"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	2"
Pipe material	Galvanized steel
Age	Installed 2008

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Galvanized steel
Age	Installed 2008

Notes:



Pump/Valve/Piping Photos

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Pumping System No. 2



Pumping System No. 2 pump control and isolation valves

HILLTOP #2B

Wednesday, December 02, 2015

Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 2B

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-2B
Manufacturer	Grundfos
Model	CR5
Serial #	A96418767-P10941585
Age	Installed 2010

Rated Design Pt 476 gpm @ 252 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 40 Voltage Phase 3 rpm 3520

Manufacturer	Baldor
Model	Unknown
Serial #	70905071731
Age	Installed 2010

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Silent check	
Age	Installed 2010	

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-2B-1, FV-7-17-2B-2	
Type/Manufacturer	BV/Henry Pratt 8", 6"	
Age	Installed 2010	

Pressure Gauge(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.	PIT-7-17-2B Pressure Tank Pressure Transmitter	
Type/Manufacturer	Pressure Transmitter/Sitrans	
Age	Installed 2010	

Notes:



Piping

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Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	10"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Stainless steel
Age	Installed 2010

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Notes:



Pump/Valve/Piping Photos

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Pumping System No. 2B



Pumping System No. 2B discharge piping, wafer check, and isolation



Pumping System No. 2B suction isolation valve



Pumping System No. 2 pump nameplate

HILLTOP #3

Wednesday, December 02, 2015

Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 3

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-3
Manufacturer	CORNELL
Model	Unknown
Serial #	Unknown
Age	Installed 2008

Rated Design Pt 750 gpm @ 120 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 40 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2008

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

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Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Cla-Val	
Age	Installed 2008	

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-3-1, FV-7-17-3-2	
Type/Manufacturer	BV/Grinnell, 5", 6"	
Age	Installed 2008	

Pressure Gauge(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.	See pumping system no. 1 for common gauge information	
Type/Manufacturer		
Age		

Notes:



Piping

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Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"/8"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Galvanized steel
Age	Installed 2008

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	4"
Pipe material	Galvanized steel
Age	Installed 2008

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Galvanized steel
Age	Installed 2008

Notes:



Pump/Valve/Piping Photos

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Pumping System No. 3



Pumping System No. 3 pump control valve



Pumping System No. 3 pump control valve nameplate

HILLTOP #3B

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Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 3B

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-3B
Manufacturer	Grundfos
Model	CR5
Serial #	A96418767-P10941584
Age	Installed 2010

Rated Design Pt 476 gpm @ 252 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 40 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2010

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.		
Type/Manufacturer	Wafer check	
Age	Installed 2010	

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-3B-1, FV-7-17-3B-2	
Type/Manufacturer	BV/Henry Pratt, 8", 6"	
Age	Installed 2010	

Pressure Gauge(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.	PIT-7-17-3B Pressure System Pressure Transmitter	
Type/Manufacturer	SITRANS	
Age	Installed 2010	

Notes:



Piping

Wednesday, December 02, 2015

Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	10"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Stainless steel
Age	Installed 2010

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Notes:



Pump/Valve/Piping Photos

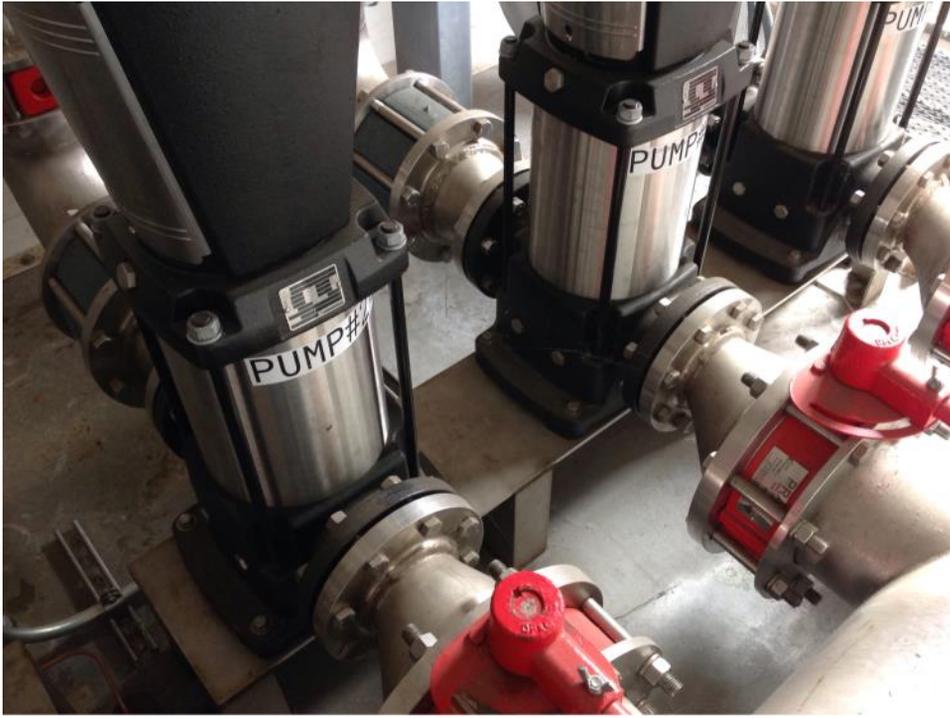
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Pumping System No. 3B



Pumping System No. 3B pump nameplate



Pumping System No. 3B suction isolation

HILLTOP #4B

Wednesday, December 02, 2015

Suction Zone	1108.5	Discharge Zone	1220
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Pumping System No. 4B

Condition 1 2 3 4 5

Criticality 1 2 3 4

Serviceability 1 2 3 4

Pump Type Vert. Turb. End Suction Split case In-line centrifugal

Mounting Horizontal Vertical

Pump from Piping Can Basin/Clearwell

Pump to Closed zone Pressure tank Reservoir

Asset no.	P-7-17-4B
Manufacturer	Grundfos
Model	CR5
Serial #	A96418767-P10941586
Age	Installed 2010

Rated Design Pt 475 gpm @ 252 feet TDH

Ability to Isolate Pump Yes No

How to Remove Pump Manual

MOTOR

ODP TEFC TENV TEBC Diesel Engine Other

Horsepower 40 Voltage Phase rpm

Manufacturer	Baldor
Model	Unknown
Serial #	Unknown
Age	Installed 2010

Inverter duty rated? Yes No Unknown

Motor Driver VFD Soft Starter FVNR Starter None

Notes:



Valves and Gauges

Wednesday, December 02, 2015

Check/Control Valve	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	2b same	
Type/Manufacturer		
Age	Installed 2010	

Isolation Valve(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Reported/Exterior Condition	No issues noted.	
Asset Nos.	FV-7-17-4B-1, FV-7-17-4B-2	
Type/Manufacturer	BV/Henry Pratt, 6", 5"	
Age	Installed 2010	

Pressure Gauge(s)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Asset Nos.		
Type/Manufacturer		
Age	Installed 2010	

Notes:



Piping

Wednesday, December 02, 2015

Common Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	10"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Suction Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Pump Specific Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	6"
Pipe material	Stainless steel
Age	Installed 2010

Common Discharge Pipe

Reported/Exterior Condition	No issues noted.
Pipe size	8"
Pipe material	Stainless steel
Age	Installed 2010

Notes:



Pump/Valve/Piping Photos

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Pumping System No. 4B



Pumping System No. 4B pump nameplate



Second pump station common discharge air relief



Second station common discharge pressure gauge



Second station common discharge piping, wafer checks, and isolation valves

Backup Power

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BACKUP POWER

Source	<input type="checkbox"/> None	<input type="checkbox"/> Pig tail for portable	<input checked="" type="checkbox"/> On-site, permanent
Transfer Switch	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Type	<input type="checkbox"/> Manual	<input checked="" type="checkbox"/> Auto	

Notes:

STANDBY GENERATOR

Condition	<input checked="" type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	<input type="checkbox"/> 5
Criticality	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Serviceability	<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3	<input type="checkbox"/> 4	
Asset No.					
Manufacturer	Cummins				
Model	GGLB-1013049				
Serial #	1090030370				
Age(s)	Installed 2010				
Electrical capacity	KW	150	Voltage		Phase(s)
Fuel type	<input type="checkbox"/> Diesel	<input checked="" type="checkbox"/> Nat. Gas	<input checked="" type="checkbox"/> Propane	<input type="checkbox"/> Gasoline	<input type="checkbox"/> Other
Full load fuel demand		gal/hr			
Fuel stored on-site		gal			

Notes:



Backup Power Photos

Wednesday, December 02, 2015



Backup power generator



Backup power generator fuel tank



Backup power generator control panel