

***Appendix I***  
***Water System Facilities Data***

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**City of Bonney Lake  
Comprehensive Water System Plan  
Pump Station Facilities Data**

Pump Station Data									
Name	Suction Pressure Zone	Discharge Pressure Zone	Year Const.	Above or Below Grade	Maximum Capacity (GPM)	Meter Size and Model	Standby Power		Surge Protection
Ponderosa	748	800	1990	Above		6" Water Specialist	EG		
Lakeridge	748	800	2000	Above		8" Badger	EG		YES
Panorama Heights	748	790	2004	Above			EG		YES
Pinnacle				Below		2" Ultra Mag UM06-02	EG		
Peaking			2006	Above			EG		
South Prairie				Below			EG		

Pump Data									
Pump Name	Pump Manufacturer	Pump Model	Pump Type	Current Pump Rate	Design Capacity (GPM)	Design Head (feet)	Motor Manufacturer	Motor Size (Hp)	Control Valve Size & Body
Ponderosa D1	Peerless	2683846	620A	224	250	250	Baldor	7.5	
Ponderosa D2	Peerless	2683846	620A		250	250	Baldor	7.5	
Ponderosa D3	Peerless	2683846	620A		250	250	Baldor	7.5	
Ponderosa D4	Peerless	2683846	620A		250	250	Baldor	7.5	
Ponderosa F1	Peerless	C1250AP	9357487		1250	1250	US Electrical 32	40	4" Cla-Val
Ponderosa F2	Peerless	C1250AP	9357487		1250	1250	US Electrical 32	40	H94-10
Lakeridge - Pump 1	PACO	4012-1	VFD	254	610	80	US	20	4" Cla-Val
Lakeridge - Pump 2	PACO	5012-7	VFD	400	1250	125	US	60	6" Cla-Val
Lakeridge - Pump 3	PACO	6015-1		1400	2000	190	US	150	8" Cla-Val
Panorama Heights - Pump 1	Grund Fos	CR-5	VFD	15	30	61	Baldor	1	2" Cla-Val 81-01
Panorama Heights - Pump 2	Grund Fos	CR-5	VFD	15	30	61	Baldor	1	2" Cla-Val 81-01
Panorama Heights - Pump 3	Grund Fos	CR-16	VFD	60	84	112	Baldor	5	2" Cla-Val 85-01
Panorama Heights - Pump 4	Grund Fos	CR-16	VFD	60	84	112	Baldor	5	2" Cla-Val 85-01
Pinnacle Estates - Pump 1	Aurora Pentair	613485092	soft start	300-1500	1500	57	Marathon Electric	30	8" Cla-Val
Pinnacle Estates - Pump 2	Aurora Pentair	613485091	soft start	300-1500	1500	57	Marathon Electric	30	8" Cla-Val
Pinnacle Estates - Pump 3	Aurora Pentair	613519392	VFD	70-190	128	117	US Motors	10	2" Cla-Val
Pinnacle Estates - Pump 4	Aurora Pentair	613519391	VFD	70-190	128	117	US Motors	10	2" Cla-Val
Pinnacle Estates - Pump 5	Goulds	33GBC1512G0	VFD	15-70			Baldor	1.5	
Pinnacle Estates - Pump 6	Goulds	18GBC10	VFD	0-20			Lesson	1	
Peaking - Pump 1	Peerless	12HXB 6 Stages	VFD		1350	207	US Motors	100	8" Cla-Val
Peaking - Pump 2	Peerless	12HXB 6 Stages	VFD		1350	207	US Motors	100	8" Cla-Val
Peaking - Pump 3	Peerless	12HXB 6 Stages	VFD		1350	207	US Motors	100	8" Cla-Val
South Prairie - Pump 1	Peerless	M12LD	VFD		700	175	US Motors	50	
South Prairie - Pump 2	Peerless	M12LD	VFD		700	175	US Motors	50	

**Pump Curve Data**

Pump Name	Point 1		Point 2		Point 3		Pump Serial Number	Pump Impeller Diameter
	Flow (GPM)	Head (feet)	Flow (GPM)	Head (feet)	Flow (GPM)	Head (feet)		
Ponderosa D1							NA	6
Ponderosa D2							NA	6
Ponderosa D3							NA	6
Ponderosa D4							NA	6
Ponderosa F1							NA	10.68
Ponderosa F2							NA	10.68
Lakeridge - Pump 1							00A0040401	9.8
Lakeridge - Pump 2							00A0040501	11.4
Lakeridge - Pump 3							00A0040601	13.6
Panorama Heights - Pump 1							A91128666P10327US155	
Panorama Heights - Pump 2							A91128666P10327US156	
Panorama Heights - Pump 3							B33296845P10327US769	
Panorama Heights - Pump 4							B33296845P10327US768	
Pinnacle Estates - Pump 1								
Pinnacle Estates - Pump 2								
Pinnacle Estates - Pump 3								
Pinnacle Estates - Pump 4								
Pinnacle Estates - Pump 5								
Pinnacle Estates - Pump 6								
Peaking - Pump 1								
Peaking - Pump 2								
Peaking - Pump 3								
South Prairie - Pump 1								
South Prairie - Pump 2								

**Pump Control Data**

Pump Name	Control Facility	Supplied Pressure Zone	Supply To Zone Priority	Pump Operation Priority	Station Has Telemetry
Ponderosa D1	Ponderosa Tank	800	Primary	Primary	Yes
Ponderosa D2	Ponderosa Tank	800	Primary	1st Lag	Yes
Ponderosa D3	Ponderosa Tank	800	Primary	2nd Lag	Yes
Ponderosa D4	Ponderosa Tank	800	Primary	3rd Lag	Yes
Ponderosa F1	Ponderosa Tank	800	Fire Flow	4th Lag	Yes
Ponderosa F2	Ponderosa Tank	800	Fire Flow	5th Lag	Yes
Lakeridge - Pump 1	800 System Pressures	800	Primary	Primary	Yes
Lakeridge - Pump 2	800 System Pressures	800	Primary	1st Lag	Yes
Lakeridge - Pump 3	800 System Pressures	800	Fire Flow	2nd Lag	Yes
Panorama Heights - Pump 1	790 System Pressures	790	Primary	Primary	Yes
Panorama Heights - Pump 2	790 System Pressures	790	Primary	Alternate	Yes
Panorama Heights - Pump 3	790 System Pressures	790	Primary	2nd Lag	Yes
Panorama Heights - Pump 4	790 System Pressures	790	Primary	Alternate	Yes
Pinnacle Estates - Pump 1	795 System Pressures	795	Fire Flow	5th Lag	Yes
Pinnacle Estates - Pump 2	795 System Pressures	795	Fire Flow	4th Lag	Yes
Pinnacle Estates - Pump 3	795 System Pressures	795	Primary	3rd Lag	Yes
Pinnacle Estates - Pump 4	795 System Pressures	795	Primary	2nd Lag	Yes
Pinnacle Estates - Pump 5	795 System Pressures	795	Primary	1st Lag	Yes

**Pump Control Data**

Pump Name	Control Facility	Supplied Pressure Zone	Supply To Zone Priority	Pump Operation Priority	Station Has Telemetry
Pinnacle Estates - Pump 6	795 System Pressures	795	Primary	Primary	Yes
Peaking - Pump 1					Yes
Peaking - Pump 2					Yes
Peaking - Pump 3					Yes
South Prairie - Pump 1					Yes
South Prairie - Pump 2					Yes

**City of Bonney Lake  
Comprehensive Water System Plan  
Storage Facilities Data**

**Water Tank Data**

Tank Name	Pressure Zone	Year Const.	Material	Capacity (gallons)	Overall Height (feet)	Diameter (feet)	Water Base Elev. (feet)	Overflow Elev. (feet)	Seismic Restraint (Y or N)	Address
Ponderosa No. 1	BL748	1972	Steel	1,010,000	43	63	705.0	748.0	Y	19808 106th St. Ct. E.
Ponderosa No. 2	P800	1998	Steel	2,810,000	104	68	696.5	800.0	Y	19808 106th St. Ct. E.
Lakeridge	BL748	1963	Steel	780,000	33	63	708.0	741.0	Y	4812 Ridgewest Dr. E.
Tacoma Point	BL748	1972	Steel	1,140,000	100	44	638.0	738.0	N	17501 N. Tapps Hwy.
Peaking	BL748	2006	Concrete	15,000,000	35	275	617.4	352.4	Y	21719 96th St. E

**Storage Data**

Tank Name	Max Water Height	Volume Per Foot (gallons)
Ponderosa No. 1	43.0	23,560
Ponderosa No. 2	103.5	27,160
Lakeridge	33.0	23,560
Tacoma Point	100.0	11,370
Peaking		

**Level Control Data**

Tank Name	Controlled Supply Facility	Meters Manufacturer	Size	Serial Number
Ponderosa No. 1	Victor Falls	Water Specialties	12"	982321
Ponderosa No. 2	Ponderosa BPS	Water Specialties	12"	930992
Lakeridge	Grainger Springs	Badger	8"	62196-010
Tacoma Point	Tacoma Point	Water Specialties	12"	872507
Peaking			16"	

**City of Bonney Lake  
Comprehensive Water System Plan  
Well Facilities Data**

Well Data												
Well Name	Pressure Zone	Year Const.	Current Pumping Rate (gpm)	Max. Well Capacity (gpm)	Max Inst Water Right (gpm)	Casing Size (inches)	Well Depth (feet)	Well Screen Depth (feet)	Pump Intake Depth (feet)	Static Water Depth (feet)	Pumping Water Depth (feet)	Ground Elv (feet)
Tacoma Point No. 2	748	1988		750	2300	12"	308'	290'-308'		247.5		
Tacoma Point No. 4	748	1987			*	12"	295'	286'-305'				
Tacoma Point No. 6	748	2000			*	16"	301'	273'-296'		243.5		
Ball Park No. 1	748	2004	1100	1270	1000	12"	241'	199'-204', 215'-231'	185.1	103	135	583
Ball Park No. 8	748	2004	200	250	270	20"	244'	214'-234'	203.2	93.5	195.5	573.5

3570

Well Pump Data										
Pump Name	Pump Manufacturer	Pump Model	Pump Type	Design Capacity (gpm)	Design Head (feet)	Motor Mfr	Motor Size (HP)	Control Valve Size & Model	Standby Power	Meters
Tacoma Point No. 2	Byron Jackson 391025		Submersible				125	8" Cla-Val 81-02	EG	Water Specialties
Tacoma Point No. 4		MA, 9 Stage	Vertical Turbine			US Motors	150	8" Cla-Val 81-02	EG	*
Tacoma Point No. 6	American Turbine 12-H-150	MA, 8 Stage	Vertical Turbine	1300	504	US Electric RUE	200	8" Cla-Val	EG	McCrometer
Ball Park No. 1	Byron-Jackson 10HQH	MA, 13 Stage	Vertical Turbine	1300	412	US Mototrs VHS	200	8" Cla-Val 81-02	EG	Water Specialties
Ball Park No. 8	Byron-Jackson 8MQL	MA, 16 Stage	Vertical Turbine	300	440	US Motors VHS	50	6" Cla-Val 660G-11BY	EG	Water Specialties

Well Pump Curve Data									
Well Name	Point 1		Point 2		Point 3		Pump Number	Serial	Pump Impeller Diameter
	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)			
Tacoma Point No. 2	0	400	350	330	580	280	250K802		
Tacoma Point No. 4							TFG233032		
Tacoma Point No. 6							P12P2940256R-1		10.030"
Ball Park No. 1							N06N0730187R-1		
Ball Park No. 8									

Control Data				
Well Name	Control Facility	Supplied Pressure Zone	Supply To Zone Priority	ADDRESS
Tacoma Point No. 2	Ponderosa Tank?	748	Primary Supply	1110 182nd Ave E
Tacoma Point No. 4	Ponderosa Tank?	748	Primary Supply	1110 182nd Ave E
Tacoma Point No. 6	Ponderosa Tank?	748	Primary Supply	1110 182nd Ave E
Ball Park No. 1	Lakeridge Tank?	748	Primary Supply	6001 192nd Ave E
Ball Park No. 8	Lakeridge Tank?	748	Primary Supply	19515 South Tapps Drive

**City of Bonney Lake  
Comprehensive Water System Plan  
Springs Facilities Data**

Pump Data										
Well Name	Pressure Zone	Year Constructed	Current Pumping Rate (GPM)	Max. Pump Capacity (GPM)	Max Inst Water Right (GPM)		Meters	Meter #	Size	Ground Elv (feet)
Victor Falls No. 1	748	Rehab 1983	0	1,000	1100		Water Specialties	852563	8"	
Victor Falls No. 2	748	Rehab 1983	1000	1,100	*		Water Specialties	851635	8"	
Grainger No. 1	748	1972	400	1,000	1500		Water Specialties	963412	12"	
Grainger No. 2	748	1972	0	500	*		Water Specialties	*	*	

2600

Pump Data										
Pump Name	Pump Manufacturer	Pump Model	Pump Type	Design Capacity (GPM)	Design Head (feet)	Motor Manufacturer	Motor Size (HP)	Control Valve Size & Model	Standby Power	Check Valve
Victor Falls No. 1	Byron-Jackson	12 GH 5 Stage	Vertical Turbine			GE5X6268XHIA	125	4" Cla-Val 61-02	EG	8' Cla-Val
Victor Falls No. 2	Byron-Jackson	12 GH 6 Stage	Vertical Turbine			GE5K6277XHIB	150	4" Cla-Val 61-02	EG	8" Cla-Val 8102
Grainger No. 1	Byron-Jackson	10	Vertical Turbine			GE5X6258XH23A	75	4" Cla-Val 61-02	EG	6" Cla-Val 8102
Grainger No. 2	American Turbine	12 MA 7 Stage	Vertical Turbine			GE5K6277XHIB	150	4" Cla-Val 61-01	EG	8" Cla-Val 8102

Pump Curve Data								
Well Name	Point 1		Point 2		Point 3		Pump Serial Number	Pump Impeller Diameter
	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)		
Victor Falls No. 1	0	400	350	330	580	280	761S0052	
Victor Falls No. 2							EWJ608109	
Grainger No. 1							721S0072	
Grainger No. 2							AJJ110390	

Control Data				
Well Name	Control Facility	Supplied Pressure Zone	Supply To Zone Priority	Address
Victor Falls No. 1	Ponderosa Tank?	748	Primary Supply	11700 Rhodes Lake Road
Victor Falls No. 2	Ponderosa Tank?	748	Primary Supply	11700 Rhodes Lake Road
Grainger No. 1	Ponderosa Tank?	748	Primary Supply	18100 SR 410
Grainger No. 2	Ponderosa Tank?	748	Primary Supply	18100 SR 410



**City of Bonney Lake  
Comprehensive Water System Plan  
Springs Facilities Data**

Pump Data										
Well Name	Pressure Zone	Year Constructed	Current Pumping Rate (GPM)	Max. Pump Capacity (GPM)	Max Inst Water Right (GPM)		Meters	Meter #	Size	Ground Elv (feet)
Victor Falls No. 1	748	Rehab 1983	0	1,000	1100		Water Specialties	852563	8"	
Victor Falls No. 2	748	Rehab 1983	1000	1,100	*		Water Specialties	851635	8"	
Grainger No. 1	748	1972	400	1,000	1500		Water Specialties	963412	12"	
Grainger No. 2	748	1972	0	500	*		Water Specialties	*	*	

2600

Pump Data										
Pump Name	Pump Manufacturer	Pump Model	Pump Type	Design Capacity (GPM)	Design Head (feet)	Motor Manufacturer	Motor Size (HP)	Control Valve Size & Model	Standby Power	Check Valve
Victor Falls No. 1	Byron-Jackson	12 GH 5 Stage	Vertical Turbine			GE5X6268XHIA	125	4" Cla-Val 61-02	EG	8' Cla-Val
Victor Falls No. 2	Byron-Jackson	12 GH 6 Stage	Vertical Turbine			GE5K6277XHIB	150	4" Cla-Val 61-02	EG	8" Cla-Val 8102
Grainger No. 1	Byron-Jackson	10	Vertical Turbine			GE5X6258XH23A	75	4" Cla-Val 61-02	EG	6" Cla-Val 8102
Grainger No. 2	American Turbine	12 MA 7 Stage	Vertical Turbine			GE5K6277XHIB	150	4" Cla-Val 61-01	EG	8" Cla-Val 8102

Pump Curve Data								
Well Name	Point 1		Point 2		Point 3		Pump Serial Number	Pump Impeller Diameter
	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)	Flow (gpm)	Head (feet)		
Victor Falls No. 1	0	400	350	330	580	280	761S0052	
Victor Falls No. 2							EWJ808109	
Grainger No. 1							721S0072	
Grainger No. 2							AJJ110390	

Control Data				
Well Name	Control Facility	Supplied Pressure Zone	Supply To Zone Priority	Address
Victor Falls No. 1	Ponderosa Tank?	748	Primary Supply	11700 Rhodes Lake Road
Victor Falls No. 2	Ponderosa Tank?	748	Primary Supply	11700 Rhodes Lake Road
Grainger No. 1	Ponderosa Tank?	748	Primary Supply	18100 SR 410
Grainger No. 2	Ponderosa Tank?	748	Primary Supply	18100 SR 410

\* MOST RECENT DATA AVAILABLE

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