

TECHNICAL EXHIBIT 12
BACKFLOW DEVICES
VALVES AND HYDRANTS

Valve Size In	Line Matl	Note	Type Or Area	Hydrant Number	General Location
12	DIP	vault w/meter & valve assembly			Brunswick road-west
6			FH	1	Brunswick road-west
12	DIP	gate & box			Brunswick road-west
12	DIP	gate & box			Brunswick road-west
6			FH	2	Brunswick road-west
12	ASC				Brunswick road-west
6			FH	4	Brunswick road-west
2.5			BLDG		
6			FH	5	Brunswick road-west
1.25	GL		BLDG		Brunswick road-west
6			FH	6	Brunswick road-west
1.5	GL		BLDG		Brunswick road-west
1.5	GL		BLDG		Brunswick road-west
12	ASC				Brunswick road-west
1.25	GL		BLDG		Brunswick road west
					near FH 13
12	ASC				Brunswick road-west, near bldg 97
12	ASC				Brunswick road-east
12	ASC				Brunswick road-east, near bldg 110
10	ASC				Brunswick road-east near bldg 110
10	ASC				Brunswick road-east
10	ASC				Brunswick road-east
10	ASC				Brunswick road-east, near FH 32
12	ASC				Brunswick road-east, near bldg 139
12	ASC				Brunswick road-east near FH 34
12	ASC				Well road/water treatment facility
12	ASC				Water treatment facility
14		gate			Water treatment facility
12					Water treatment facility/tank
6			FH	20	Water treatment facility
14					Water treatment facility/pumping station, near bldg 151
6	ASC				Water treatment facility
6	ASC				between water treatment facility/well house #3

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12	ASC				Brunswick road/south river/north intersection
12	ASC				Sunny Point/Brunswick roads intersection, near FH 61
6			FH	23	Sunny Point road
12	ASC				Sunny Point road
6			FH	24	Sunny Point road
12	ASC				Brunswick road-east
6			FH	25	Sunny Point road
12	ASC				Brunswick road-east
6			FH	26	Sunny Point road
12	ASC				Brunswick road-east
12	ASC				Brunswick road-east
10	ASC				Brunswick road-east
6			FH	27	South wharf road/south dunnage yard
6			FH	28	South wharf road/south
6			FH	29	South wharf road/south dunnage yard
8	PVC				Brunswick road-east
6		8" tapping sleeve & valve assembly w/thrust block	FH	30	South wharf road/south dunnage yard
6			FH	31	South wharf road
6			FH	32	South wharf road
6			FH	33	Battery lamb road
6			FH	34	Battery lamb road
6			FH	35	Battery lamb road
6			FH	36	Battery lamb road
8	PVC				Brunswick road-east
10	TR				Brunswick road east
10	TR				Brunswick-road east
10	TR				Brunswick road-east
10	TR				Brunswick road east
10	TR				Brunswick-road east
12	ASC				Brunswick road east
6			FH	42	North river
10		12" tapping sleeve w/12"x10" reducer			Off north river
12	ASC				North river
12	ASC				North river
6			FH	44	North river
12	ASC				North river

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6			FH	45	North river
10		12"x10" tapping sleeve & valve			North wharf road
10	ASC				North wharf/St. Phillips road
6			FH	46	North wharf/St. Phillips road
0.75					North wharf road
6	CI		FH	47	North wharf road/north dunnage yard
8	ASC				North wharf road/north dunnage yard
6			FH	48	North wharf road/north dunnage yard
6			FH	49	North wharf road/north dunnage yard
6	CI		FH	50	North wharf road/north dunnage yard
8		10"x8" reducer			North wharf road/north dunnage yard
10	DIP	plug & block valve			North wharf road
6		10"x6" tee & valve	FH	51	North wharf, north end
6		hose cabinet and hydrant	FH	53	North wharf, north end, port side
6		hose cabinet and hydrant w/valve	FH	54	North wharf, south end, port side
2.5			BLDG		North wharf, north end, port side
2.5					North wharf, north end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	55	North wharf, north end, river side
6		hydrant w/post valve	FH	56	North wharf, north end port side
2.5					North wharf, north end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	57	North wharf, north end, river side
6		hose cabinet and hydrant	FH	58	North wharf, north end, port side
10					North wharf, center
3			BLDG		North wharf, center port side
10					North wharf center

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6			FH	59	North wharf, south end, port side
2.5					North wharf, south end river side
2.5		valve at zurn around, ship water point	FH	60	North wharf, south end river side
6		hose cabinet & hydrant	FH	61	North wharf, south end port side
2.5					North wharf, south end river side
2.5		valve at zurn around, ship water point	FH	62	North wharf, south end, river side
2.5			BLDG		North wharf, south end, port side
6		Hose cabinet & hydrant w/post valve	FH	64	North wharf, south end
6					North wharf, south end
6		hose cabinet & hydrant	FH	65	North wharf, south end, port side
10	DIP				North wharf road near bldg 270
6		10"x6" tee & valve	FH	66	North wharf road near bldg 270
6		10"x6" tee & valve	FH	67	North wharf road
8	PVC				Karlman In
6			FH	66	Karlman In
8	PVC				Karlman In
8	ASC				Brunswick road-east, near bldg 266
6			FH	69	Brunswick road-east
3			FH	70	Brunswick road-east
6	ASC		FH	71	Brunswick road-east near bldg 261
6			FH	72	Brunswick road-east, near bldg. 273
6		6" tapping sleeve, valve assembly & 10"x6" reducer			Brunswick road-east, near bldg 304
10	PVC	10" plug & block valve			Center wharf road-north
6			FH	73	Center wharf road-north
10					Center wharf, north end
6		hose cabinet & hydrant	FH	76	Center wharf, north end, port side
2.5			BLDG		Center wharf, north end, port side

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Valve Size In	Line Matl	Note	Type Or Area	Hydrant Number	General Location
2.5					Center wharf, north end river side
2.5		valve at zurn ground hydrant, ship water point	FH	77	Center wharf, north end river side
6		hydrant w/post valve	FH	78	Center wharf, north end, port side
6		hose cabinet & hydrant w/valve	FH	79	Center wharf, north end, port side
2.5					Center wharf, north end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	80	Center wharf, north end river side
10					Center wharf, north end
3			BLDG		Center wharf
10					Center wharf, south end
6			FH	81	Center wharf, south end, port side
2.5					Center wharf, south end river side
2.5		valve at zurn ground hydrant, ship water point	FH	82	Center wharf, south end, river side
6		hose cabinet & hydrant w/valve	FH	83	Center wharf, south end port side
2.5			BLDG		Center wharf, south end port side
2.5					Center wharf, south end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	84	Center wharf, south end, river side
6		hose cabinet & hydrant w/valve	FH	86	Center wharf, south end, port side
6			FH	87	Center wharf, south end, port side
10	DIP				Center wharf, south end port side
6		10"x10"x6"tee w/valve	FH	88	Center wharf road-south
6		10"x10"6" tee w/valve	FH	89	Center wharf road south
10	ASC				South wharf road
6			FH	90	South wharf road
6			FH	91	South wharf road
10	ASC				South wharf road
6		hydrant w/post valve	FH	94	South wharf, north end, Port side
10					South wharf, north end

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6		hose cabinet & hydrant w/valve	FH	94	South wharf, north end, port side
2.5					South wharf, north end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	95	South wharf north end river side
2.5			BLDG		South wharf, north end, port side
6		hydrant w/post valve	FH	96	South wharf, north end, port side
2.5					South wharf, north end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	97	South wharf, north end river side
6		hose cabinet & hydrant	FH	98	South wharf, north end, port side
10					South wharf, center
3			BLDG		South wharf, center
2.5					South wharf, south end river side
2.5		valve at zurn ground hydrant, ship water point	FH	99	South wharf, south end, river side
6			FH	100	South wharf, south end, port side
6		hose cabinet & hydrant w/valve	FH	101	South wharf, south end, port side
2.5					South wharf, south end, river side
2.5		valve at zurn ground hydrant, ship water point	FH	102	South wharf, south end, river side
2.5			BLDG		South wharf, south end, port side
6		hose cabinet & hydrant w/valve	FH	104	South wharf, south end, port side
10					South wharf, south end
6			FH	106	South wharf, south end
10		10"x8" reducer			South wharf, south end
8		10"x8" reducer			South wharf, south end
8	TR	8"x8" tapping sleeve, valve & box			South road 4, TA 2 & 3 areas
8	TR				South road TA 2 & 3 areas
6		8"x8" tapping sleeve , gate valve & box			South road TA 2 & 3 areas

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Valve Size In	Line Matl	Note	Type Or Area	Hydrant Number	General Location
6	TR	6"x6" tapping sleeve, valve box & blocking	FH	110	South road 4, TA 2 & 3 areas
6	TR	6"x6" tapping sleeve, gate valve, box & reducer			South road 4, TA 2 & 3 areas
10		12"x10" tapping sleeve, vault, box & blocking			Substation road/Brunswick
6			FH	111	Substation road
6			FH	112	Substation road
6			FH	113	Substation road
6			FH	114	Substation road
6			FH	115	Substation road
6			FH	116	Substation road
2					Milvan repair road-north
2			BLDG		Milvan repair area
6			FH	117	Substation road
6			FH	118	Substation road
6			FH	119	Substation road
6			FH	120	Substation road
6		10"x8"x6" reducer	FH	121	Substation road/bldg 107
6			FH	122	Container restuff road
10	ASC				Container restuff road
8	TR				Container restuff road
2.5					Container restuff facility
6		6"x6" tapping sleeve, box, reducer & blocking			
6			FH	127	Container restuff road
6			FH	128	Container restuff road
8		8"x8" tapping sleeve, box & blocking			
10	ASC				Class yard outer loop road, near FH 20
10	ASC				Class yard outer loop road, near FH 27
10	ASC				Class yard outer loop road near bldg 138
10	ASC	10" tapping w/valve assembly			Class yard outer loop road near bldg 138
8	TR				North rr holding yard road
6	TR				North rr holding yard road
5					North rr holding yard road
5					North river road/old hwy 130

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Valve Size In	Line Matl	Note	Type Or Area	Hydrant Number	General Location
6	ASC				Suspect road
6			FH	143	Suspect road
6			FH	145	Suspect truck road
10					Suspect truck road
6			FH	146	Suspect truck road
6			FH	147	Suspect truck road
6		10"x6" tapping sleeve, box, reducer & blocking	FH	149	Suspect truck road
10		12"x10" tapping sleeve, vault, box & blocking			Suspect/Brunswick roads
6			FH	140	Suspect road
6			FH	141	Suspect road
8		12"x8" tapping sleeve & valve w/8" thrust block			Perimeter road-south
6					Intersection of south Perimeter & Brunswick roads
1.5					South perimeter road
1.5			BLDG		South perimeter road
2			BLDG		Perimeter road-south
1.5			BLDG		Perimeter road-south
6	AS	gate & box w/8" thrust block 8"x6" reducer			Perimeter road-south near FH 66
6		gate & box w/8" thrust block			Perimeter road-south
6	AS	gate & box @ 6"x6" tee	FH	152	Perimeter road-south
6			FH	3	Main gate area
2			BLDG		Headquarter road, near FH 5
2			BLDG		Off headquarters road
2			BLDG		Admin area
1			BLDG		Admin area
2			BLDG		And wash rack
6	AS				Near bldg 1
2.5	GI		BLDG		
2	AS		BLDG		
6			FH	155	By locomotive shop
6	AS				Near bldg 3
1.5	GI		BLDG		Near FH 8
4	AS		BLDG		
2			BLDG		
6	AS				Near FH 3
6	AS				Near bldg 3
1.25			BLDG		
4			BLDG		

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Valve Size In	Line Matl	Note	Type Or Area	Hydrant Number	General Location
1	GI		BLDG		
6	ASC				Near FH 10
6	DIP	gate			Near FH 12
3		gate, 6"x3" reducer			Near bldg 12
6		gate, 8"x6" reducer			Near bldg 12
6	ASC				Near FH 10
2	GI		BLDG		Near FH 9
6			FH	7	Brunswick road-west
6			FH	8	Brunswick road-east
6			FH	9	Brunswick road-east
6			FH	10	Brunswick road-west
6			FH	11	Brunswick road-east
6			FH	12	Brunswick road-east
6			FH	13	Brunswick road-west
6			FH	14	Brunswick road-east
6			FH	15	Brunswick road-east
6			FH	16	Brunswick road-west
6			FH	17	Brunswick road-east
6			FH	18	Brunswick road-east
6			FH	19	Brunswick road-east
6			FH	21	Brunswick road-east
6			FH	22	Brunswick road-east
6			FH	37	Battery lamb road-south
6			FH	38	Battery lamb road-south
6			FH	39	Battery lamb road-south
6			FH	40	Battery lamb road-south
6			FH	41	Battery lamb road-south
6			FH	43	Battery lamb road-south
6		hose bib hydrant	FH	54	North wharf, north end, Port side
6		hose bib hydrant	FH	63	North wharf, south end, Port side
6		hose bib hydrant	FH	76	Center wharf, north end, Port side
6		hose bib hydrant	FH	85	Center wharf, south end Port side
6		hose bib hydrant	FH	94	South wharf, north end Port side
6		hose bib hydrant	FH	103	South wharf, south end, Port side
6			FH	107	South road 4, TA 2 & 3 Areas
6			FH	108	South road 4, TA 2 & 3 areas

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			FH	109	South road 4. TA 2 & 3 areas
6			FH	123	Container restuff area
6			FH	124	Container restuff area
6			FH	125	Container restuff area
6			FH	126	Container restuff area
6			FH	129	Class yard, outer loop
6			FH	130	Class yard, outer loop
6			FH	131	Class yard, outer loop
6			FH	132	Class yard, outer loop
6			FH	133	Class yard, outer loop
6			FH	134	Class yard, outer loop
6			FH	135	Class yard, outer loop
6			FH	136	Class yard, outer loop
6			FH	137	Class yard, outer loop
6			FH	138	TA-1 area
6			FH	139	TA-1 area
6			FH	148	Suspect truck road
6			FH	150	Perimeter road-south
6			FH	151	Perimeter road south
6			FH	153	Perimeter road south
6			FH	154	Headquarters loop
6			FH	156	Headquarters loop
6			FH	157	Behind DPW
6			FH	158	Headquarters loop
6			FH	159	Headquarters loop
6			FH	160	Headquarters loop
6			FH	161	Bldg. 7-8 area
6			FH	162	
6			FH	163	
6			FH	163	
6			FH	164	
6			FH	165	
6			FH	166	
6			FH	167	
6			FH	168	
6			FH	169	
6			FH	50a	North wharf, north end

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Bldg. #	Bldg. Name BPD	BPD Installed	Location of	Point of Use	Degree of	Manufacturer	Model #	Serial #	Comments/Recommendations
3	Photo/Contract	RPZ	Mechanical	Heater Unit	High	Watts	90901QT	358984	Bypass around the RP must be removed.
4	Public Workers	RPZ	Mechanical	Heater Unit	High	Watts	901	4S120	Drain under the relief valve on the RP
6	Motor Pool	RPZ	Mechanical	Heater Unit	High	Wilkins	975XL	473482	Annually inspect and test Remove bypass, install a drain line from
12	Traffic Control	RPZ	Mechanical	Heater Unit	High	Wilkins	975XL	520496	Annually inspect and test
14	Locomotive Repair	RPZ	Mechanical	Heater Unit	High	Wilkins	975XL	578943	Annually inspect and test
131	Smoker House	DCV	Mechanical	Cold water	Low	Watts	007M2Q1	32539	Remove bypass around DC
279	S. Wharf Hardstand Ops Building	DCV	Mechanical	DCW service	Low	Watts	007M2QT	151206	Annually inspect and test
	Sunny Point Intersection	DCV	Water main	Installation	Low	Febco	805YD	B8135	Annually inspect and test

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