

June 1, 2016

Project 161.06035

Heather Smith
Asset Management Technician
MEANS Division, Portland Water District
225 Douglass Street
PO Box 3553
Portland, Maine 04104-3553

RE: Request for Capacity to Serve Determination.
Proposed Development with 4 Apartments and Office Space
65 Munjoy Street, Portland

Dear Heather:

This letter is requesting a determination of whether the Portland Water District has the capacity to serve a proposed development located at 23 Ocean Avenue in Portland. The development will be comprised of four (4) two-bedroom apartments on the second and third floors with office space on the first floor and in the basement. We estimate that there will be 11 office employees. The offices will not have showers.

As you have suggested, we are submitting the project's demand calculations using the District's *Peak Flow Based on Fixture Count Spreadsheet*, see attached.

Enclosed, to assist in your review, is utility plan. We propose to construct a new 4" ductile iron service from the main to the proposed building. The 4" water service will be used for fire protection. A 2" domestic service will be tapped off of the 4" service. Both services will have valves in the esplanade area for independent operation. Please let us know whether this proposed configuration is acceptable in terms of capacity and operation, and provide us with any specific service connection requirements. This development will have a sprinkler system for fire protection.

We plan to present the proposed development to the Portland Planning Board on June 28. If you able to provide us with a determination ahead of that date it would be greatly appreciated. Please let me know if you have any questions or would like additional information. Please feel free to call me at (207) 772-2891.

Sincerely,



John Mahoney, P.E.
Project Engineer

Enclosure: Peak Flow Based on Fixture Count Spreadsheet, Utility Plan for 23 Ocean Avenue

400 Commercial Street, Suite 404, Portland, Maine 04101, Tel (207) 772-2891, Fax (207) 772-3248
Pease International Tradeport, 112 Corporate Drive, Portsmouth, New Hampshire 03801, Tel (603) 436-1490
12 Kent Way, Suite 100, Byfield, Massachusetts 01922, Tel (978) 465-1822
2127 Hamilton Avenue, Hamilton, New Jersey 08619, Tel (609) 584-0090
60 Valley Street, Building F, Suite 106, Providence, Rhode Island 02909, Tel (401) 433-2160

Peak Flow Based on Fixture Count

Customer	
Street Address	23 Ocean Avenue
City	Portland

Fixture	Fixture Value 60 psi	x	No. of Fixtures	=	Fixture Value
Bathtub	8	x	4	=	32
Bedpan Washers	10	x		=	0
Bidet	2	x		=	0
Dental Unit	2	x		=	0
Drinking Fountain - Public	2	x		=	0
Kitchen Sink	2.2	x	5	=	11
Lavatory	1.5	x	12	=	18
Showerhead (Shower Only)	2.5	x	4	=	10
Service Sink	4	x	1	=	4
Toilet -Flush Valve	35	x		=	0
-Tank Type	4	x	12	=	48
Urinal -Pedestal Flush Valve	35	x		=	0
-Wall Flush Valve	16	x		=	0
Wash Sink (Each Set of Faucets)	4	x		=	0
Dishwasher	2	x	5	=	10
Washing Machine	6	x	4	=	24
Hose (50 ft. Wash Down) -1/2 in.	5	x		=	0
-5/8 in.	9	x	2	=	18
-3/4 in.	12	x		=	0

Combined Fixture Value Total 175

Customer Peak Demand From Fig. 4-2 or 4-3

Pressure Factor From Table 4-1

No. of Irrigation Sections (Areas of 100 sq. ft.)		
Irrigation Factor (1.16-Spray Systems, 0.40-Rotary Systems)		
Hose Bibs for Irrigation:	Fixture Value	No. of Fixtures
Size		
1/2"		
5/8"		
3/4"		

Total Fixed Demand (Peak Flow) 0 gpm