

AQUARION WATER COMPANY OF NEW HAMPSHIRE

DW 12-085

Aquarion Water Company's Response to Record Request #1

ORIGINAL	
Case No.	DW 12-024
Exhibit No.	20
Witness	
DO NOT REMOVE FROM FILE	

Date Request Received: May 23, 2013

Date of Response: May 31, 2013

Record Request No. 1

Witness: Carl McMorran

REQUEST: Reference Prefiled Direct Testimony of Carl McMorran, page 62 of 171 lines 1 - 5. Please state the volume of water identified with the seventeen (17) leaks found by the DES-hired contractor in 2011.

RESPONSE: The estimated leakage attributable to the seventeen leaks as determined by Health Consultants Incorporated was, in the aggregate, 149 gallons per minute or 214,560 gallons per day. Aquarion provided a copy of Health Consultants Incorporated's final report to the New Hampshire Department of Environmental Services as Attachment C to its response to data request Staff 1-31 in this matter. The relevant excerpt of that report is attached hereto as Attachment A.



REFERENCE NUMBER

Summary of
WATER LEAK CONTROL SURVEY

Water Use & Conservation

HAMPTON, NH

AQUARION WATER CO.

COMPANY

CITY AND STATE

DISTRICT OR DIVISION

Conducted by our Consultant(s)

DONALD KELLER

508-294-0883

DATE STARTED **03/30/2011**

DATE COMPLETED **05/13/2011**

TOTAL DAYS **26**

Including Final Report & Map

CLASSIFICATION	NUMBER	ESTIMATED LEAKAGE		
		X GPM	X GPD	X GPY AF/Y
1	3	70	100,800	36,792,000
2	7	63	90,720	33,112,800
3	7	16	23,040	8,409,600
TOTALS	17	149	214,560	78,314,400

GPM = Gallons/Minute

GPD = Gallons/Day

GPY = Gallons/Year

AF/Y = Acre Free/Year

SOURCE OF LEAKAGE	NUMBER	GPM	% OF TOTAL NO.	% OF TOTAL EST. GPM
MAINS	4	80	23	54
SERVICES	8	53	47	35
VALVES	1	10	6	7
HYDRANTS	4	6	24	4
TOTALS	17	149	100	100

TYPE OF SURVEY PERFORMED **Comprehensive**

MILES OF MAIN INSPECTED **123.06**

NUMBER OF SERVICES INSPECTED
 (If applicable)

NUMBER OF LEAK INDICATIONS **17**

Grade 1 (C) **15+** to _____ GPM

Grade 2 (B) **5** to **15** GPM

Grade 3 (A) **< 5** to _____ GPM

SPECIAL CASES

Contact Heath Consultants Incorporated for further information regarding any Special Cases such as emergency assistance, inspecting river/canal crossings, analysis/audit of in-house leakage programs, third party verification, hands-on training, etc.

Our Consultants will be available on a 24 hour notice to assist you.

Leak Indication Classification

Leak indication classification is not an exact science despite the use of modern instruments as well as training and experience by the Consultant, it is impossible to determine the exact condition of underground piping without actually exposing it. In view of this limitation, our classification (including estimated volume loss) is intended as an aid in scheduling repairs based upon information available, the Consultant's judgment, and site conditions at the time the report is prepared. Variable factors beyond our control may alter this classification at any time. Once the leak is exposed for repair, the Utility may wish to revise the volume loss estimate in order to establish a more accurate estimate of actual water loss.