
APPENDIX C: MANHOLE INSPECTIONS AND FLOW ISOLATION DATA (PROVIDED ELECTRONICALLY)



PORTSMOUTH, NH
FLOW ISOLATION LOG
MAY 11-19, 2017

| SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|-----------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| P1 | Woodbury Ave | 2732 | 624 | 3062 | 10 | AC | 1998 | 19.76 | | | | | Could not locate MH 2732. Includes MH's 607, 608, 5331, 609, 610, 612, 611, 613, 614, 615 |
| P1 | Woodbury Ave | 622 | 623 | 3060 | 8 | AC | 209 | 0 | | | | | |
| P1 | Woodbury Ave | 623 | 624 | 3061 | 8 | AC | 199 | 0.25 | 0.5 | 624 | | | Wall leak in MH 624 |
| P1 | Woodbury Ave | 646 | 645 | 3063 | 8 | AC | 78 | 0 | | | | | |
| P1 | Woodbury Ave | 645 | 647 | 3064 | 8 | AC | 54 | 0.05 | | | | | |
| P1 | Woodbury Ave | 648 | 647 | 3071 | 8 | AC | 67 | 0.2 | | | | | |
| P1 | Woodbury Ave | 647 | 2694 | 3065 | 8 | AC | 265 | 0.15 | | | | | |
| P1 | Woodbury Ave | 624 | 2694 | 3072 | 10 | AC | 201 | 3.75 | 0.25 | 2694 | | | Wall seam weeping MH 2694 |
| P1 | Woodbury Ave | 2694 | 644 | 3066 | 10 | AC | 71 | 0 | | | | | |
| GR1 | Arthur F Brady Dr | 659 | 658 | 2931 | 10 | AC | 262 | 0.1 | | | | | |
| GR1 | No Name | 643 | 5334 | 6370 | 10 | UNKNOWN | 534 | 1 | | | | | Could not locate MH 657. Includes MH's 658, 656, 657. No line section listed for 657 - 643; LF unaccounted for this portion. |
| GR1 | No Name | 5334 | 642 | 2941 | 10 | UNKNOWN | 213 | 0.1 | | | 0.25 | 5334 | Heavy grease in invert of MH 5334 |
| GR1 | No Name | 642 | 641 | 2942 | 10 | AC | 330 | 0 | | | | | Moderate mineral deposits in MH 642 |
| GR1 | Commerce Way | 641 | 640 | 2944 | 10 | AC | 312 | 0.25 | | | | | |
| GR1 | Commerce Way | 640 | 634 | 3083 | 14 | AC | 298 | 0.1 | | | | | |
| GR1 | Commerce Way | 0 | 5934 | 7213 | 8 | PVC | 33 | 0 | | | | | |
| GR1 | Commerce Way | 5934 | 5933 | 7221 | 8 | PVC | 340 | 0.05 | | | | | |
| GR1 | Commerce Way | 5933 | 5932 | 7214 | 8 | PVC | 314 | 0.25 | | | | | |
| GR1 | No Name | 5932 | 5931 | 7216 | 8 | PVC | 384 | 0.5 | | | | | |
| GR1 | No Name | 5931 | 5307 | 7215 | 8 | PVC | 249 | 0.3 | | | | | |
| GR1 | X-Country or Easement | 639 | 638 | 3002 | 10 | VCP | 274 | 0 | | | | | |
| GR1 | X-Country or Easement | 5332 | 5505 | 6392 | 10 | UNKNOWN | 902 | 3.45 | | | | | Includes MH's 638, 637 |
| GR1 | Commerce Way | 5505 | 5307 | 6453 | 8 | PVC | 183 | 1 | | | | | |

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| SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|-----------------------|---------|-----------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| GR1 | Commerce Way | 5307 | 634 | 3089 | 8 | PVC | 106 | 0.25 | | | | | |
| GR1 | X-Country or Easement | 0 | 912 | 3015 | 6 | VCP | 170 | 0.5 | | | | | |
| GR1 | X-Country or Easement | 912 | 913 | 3016 | 6 | VCP | 300 | 1 | | | | | |
| GR1 | Blue Heron Dr | 913 | 914 | 3017 | 6 | VCP | 231 | 0.75 | | | | | |
| GR1 | Blue Heron Dr | 0 | 914 | 3025 | 6 | VCP | 279 | 0.32 | | | | | |
| GR1 | Blue Heron Dr | 914 | 915 | 3018 | 8 | VCP | 149 | 0.05 | | | | | |
| GR1 | Blue Heron Dr | 0 | 915 | 5481 | 0 | UNKNOWN | 131 | 0 | | | | | |
| GR1 | Blue Heron Dr | 0 | 915 | 5411 | 0 | UNKNOWN | 91 | 0 | | | | | |
| GR1 | Blue Heron Dr | 915 | 5398 | 3019 | 8 | VCP | 134 | 0.05 | | | | | |
| GR1 | Blue Heron Dr | 5399 | 5398 WAS | 5005 | 8 | PVC | 233 | 0.25 | | | | | |
| GR1 | Blue Heron Dr | 5398 | 916 | 6438 | 8 | VCP | 53 | 0.1 | | | | | |
| GR1 | Blue Heron Dr | 916 | 919 | 3023 | 8 | VCP | 238 | 4 | | | | | |
| GR1 | Staysail Way | 922 | 921 | 3020 | 8 | VCP | 249 | 0.1 | | | 0.25 | 921 | |
| GR1 | Shear Water Dr | 921 | 920 | 3021 | 8 | VCP | 139 | 1.75 | 7 | 920 | 2.3 | 920 | Pipe connection leak from North and West pipes in MH 920 |
| GR1 | Blue Heron Dr | 920 | 919 | 3022 | 8 | VCP | 237 | 0.3 | | | | | |
| GR1 | Blue Heron Dr | 919 | 5492 (PRE | 5393 | 10 | PVC | 160 | 0 | | | | | |
| GR1 | Shearwater Dr | 5492 | 5491 (PRE | 5400 | 10 | PVC | 297 | 0 | | | | | Incoming line from Northeast to MH 5491 = 0 GPM (LF unaccounted for this portion) |
| GR1 | Shearwater Dr | 5491 | 5490 | 5402 | 10 | PVC | 187 | 0 | | | | | |
| GR1 | Portsmouth Blvd | 5490 | 815 | 5392 | 10 | PVC | 79 | 0 | | | | | |
| GR1 | X-Country or Easement | 918 | 917 | 3014 | 10 | VCP | 505 | 0 | | | | | Includes MH 919 |
| GR1 | Shearwater Dr | 0 | 917 | 3013 | 8 | VCP | 172 | 0 | | | | | Note: Believe that "0" in the From MH should be listed as "5491" |
| GR1 | X-Country or Easement | 917 | 2374 | 3005 | 10 | PVC | 49 | 0 | | | | | |
| GR1 | X-Country or Easement | 2374 | 2373 | 3006 | 10 | PVC | 63 | 0 | | | | | |
| GR1 | X-Country or Easement | 2373 | 2372 | 3007 | 10 | PVC | 23 | 0 | | | | | |
| GR1 | Portsmouth Blvd | 2372 | 813 | 3008 | 10 | VCP | 152 | 0 | | | | | |

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| SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|-----------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| GR1 | Granite St | 5729 | 812 | 6494 | 0 | UNKNOWN | 44 | 0 | | | | | |
| GR1 | Market St | 812 | 813 | 3012 | 8 | VCP | 305 | 0 | | | | | |
| GR1 | Portsmouth Blvd | 813 | 814 | 3009 | 10 | VCP | 60 | 0 | | | | | |
| GR1 | Portsmouth Blvd | 814 | 815 | 3010 | 10 | VCP | 145 | 0 | | | | | |
| GR1 | Portsmouth Blvd | 815 | 816 | 3011 | 10 | VCP | 173 | 0 | 5 | 816 | | | Pipe connection leak at MH 816 |
| GR1 | Portsmouth Blvd | 816 | 5852 | 3209 | 10 | VCP | 182 | 4.5 | | | | | |
| GR1 | Portsmouth Blvd | 817 | 5852 | 3000 | 6 | VCP | 1199 | 7.8 | | | 2.1 | 5493 | Includes MH's 5493, 5495, 5494. 2.1 GPM into MH 5493 is from incoming line from East. Second incoming line from Southeast into MH 5493 had 0 GPM. |
| GR1 | Portsmouth Blvd | 5852 | 818 | 3210 | 10 | VCP | 103 | 10 | 0.5 | 5852 | | | Wall leak at MH 5852 |
| GR1 | Osprey Dr | 0 | 821 | 2992 | 6 | VCP | 218 | 0.75 | 11.6 | 821 | 3 | 821 | Wall leak at MH 821 |
| GR1 | Portsmouth Blvd | 821 | 820 | 2993 | 8 | VCP | 190 | 0.5 | | | | | |
| GR1 | Portsmouth Blvd | 824 | 820 | 2997 | 6 | VCP | 418 | 0.2 | | | | | |
| GR1 | Portsmouth Blvd | 820 | 819 | 2994 | 8 | VCP | 55 | 0.7 | | | | | |
| GR1 | Portsmouth Blvd | 825 | 823 | 2995 | 8 | VCP | 310 | 0.1 | | | | | |
| GR1 | Portsmouth Blvd | 823 | 819 | 2996 | 8 | VCP | 279 | 0.2 | | | | | |
| GR1 | Portsmouth Blvd | 819 | 818 | 3001 | 8 | VCP | 335 | 0.5 | | | | | |
| GR1 | X-Country or Easement | 818 | 639 | 2999 | 10 | VCP | 62 | 4 | | | | | |
| LD1 | Osprey Dr | 911 | 842 | 2986 | 6 | VCP | 512 | 4 | | | 0.5 | 842 | Could not locate MH 0 to MH 911. 0.5 GPM into MH 842 is from incoming line from Northwest. |
| LD1 | Osprey Dr | 842 | 841 | 2987 | 8 | VCP | 133 | 0.5 | | | | | |
| LD1 | Osprey Dr | 841 | 840 | 2988 | 8 | VCP | 146 | 1 | | | | | |



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|----------|-----------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | Osprey Dr | 840 | 839 | 2989 | 8 | VCP | 952 | 4 | | | 0.5 | 840 | 0.5 GPM into MH 840 is from incoming line from Southeast. Second incoming line from Northwest into MH 840 had 0 GPM. Incoming line from Northwest into MH 839 had 0 GPM. |
| LD1 | Osprey Dr | 839 | 838 | 2990 | 8 | VCP | 704 | 0.75 | | | | | Includes incoming Southeastern line that Tees into line section 839 - 838. |
| LD1 | Osprey Dr | 838 | 837 | 2991 | 8 | VCP | 627 | 1 | | | 0.8 | 838 | Wall leak at MH 838 - See Photos# 4915, 4916, 4917, 4918. Incoming line from Northwest into MH 838 contributed 0.5 GPM and incoming line from Southeast into MH 838 contributed 0.3 GPM for the total of 0.8 GPM listed. |
| LD1 | Portsmouth Blvd | 826 | 827 | 3100 | 8 | VCP | 179 | 0.5 | | | 1 | 826 | |
| LD1 | Portsmouth Blvd | 827 | 828 | 3101 | 8 | VCP | 252 | 1 | | | | | Walls weeping in MH 828 |
| LD1 | Portsmouth Blvd | 828 | 829 | 3102 | 8 | VCP | 242 | 4.8 | | | 2 | 829 | Old 6" VCP service leaking 2 GPM - See Photo# 4910 |
| LD1 | Portsmouth Blvd | 829 | 830 | 3103 | 8 | VCP | 194 | 0 | 0.5 | 17 | | | Pipe connection leak in MH 17 - See Photos# 4912, 4913, 4914 |
| LD1 | Dunlin Way | 836 | 830 | 3106 | 12 | VCP | 361 | 0.75 | | | 0.6 | 836 | 06. GPM into MH 836 from Northeast service. Could not locate line section of MH 837 - 836. Will revisit area again. |
| LD1 | Portsmouth Blvd | 830 | 17 | 3108 | 10 | PVC | 46 | 3.5 | | | | | |
| LD1 | Portsmouth Blvd | 17 | 16 | 3109 | 10 | PVC | 106 | 0 | | | | | |
| LD1 | Dunlin Way | 16 | 15 | 3110 | 10 | PVC | 245 | 0.2 | | | | | |
| LD1 | Osprey Dr | 15 | 2457 | 3111 | 10 | PVC | 275 | 1.2 | | | | | |
| LD1 | Osprey Dr | 837 | 2457 | 3453 | 8 | PVC | 25 | 0 | | | | | END OF 05/11/17 and 5/16/17 DATA BATCH |



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|----------|-----------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | Blue Heron Dr | 930 | 928 | 2976 | 6 | VCP | 764 | 4 | | | | | Includes MH's 931, 5496, 930 |
| LD1 | Blue Heron Dr | 928 | 926 | 2977 | 8 | VCP | 225 | 1 | | | | | Incoming Southeast line to MH 926 had 0 GPM. |
| LD1 | X-Country or Easement | 0 | 932 | 2978 | 6 | VCP | 211 | 2.1 | | | | | |
| LD1 | X-Country or Easement | 932 | 929 | 2979 | 8 | VCP | 208 | 1 | | | | | |
| LD1 | Blue Heron Dr | 927 | 926 | 2981 | 6 | VCP | 393 | 2.6 | | | | | Includes 929, but could not locate line section of MH 929 to MH 927 |
| LD1 | Dunlin Way | 925 | 924 | 2983 | 8 | VCP | 758 | 4.25 | | | | | Includes MH 926, but could not locate MH 925. Also includes incoming lines from Northwest and Southeast that Tee into line section 926 - 925. |
| LD1 | Spinnaker Way | 935 | 934 | 2963 | 8 | VCP | 901 | 7.8 | | | | | Includes MH's 938, 937, 936 - No access under deck |
| LD1 | Spinnaker Way | 934 | 933 | 2964 | 8 | VCP | 99 | 0.75 | | | | | |
| LD1 | Dunlin Way | 933 | 924 | 2965 | 8 | VCP | 126 | 0.75 | | | | | |
| LD1 | Dunlin Way | 924 | 923 | 2966 | 8 | VCP | 242 | 4 | | | | | |
| LD1 | Osprey Dr | 923 | 837 | 2967 | 8 | VCP | 258 | 3 | | | | | |
| LD1 | Osprey Dr | 2457 | 2454 | 2972 | 12 | PVC | 194 | 0.75 | | | | | |
| LD1 | X-Country or Easement | 2444 | 2440 | 3035 | 10 | PVC | 200 | 0.5 | | | | | |
| LD1 | Kearsarge Way | 2440 | 2435 | 3036 | 10 | PVC | 193 | 0 | | | | | |
| LD1 | Kearsarge Way | 2435 | 2430 | 3037 | 10 | PVC | 126 | 0 | | | | | |
| LD1 | Laurel Ct | 5748 | 5747 | 6541 | 8 | PVC | 288 | 0 | | | | | |
| LD1 | Laurel Ct | 5747 | 5746 | 6533 | 8 | PVC | 255 | 0 | | | | | |
| LD1 | Laurel Ct | 5746 | 5745 | 6529 | 8 | PVC | 88 | 0 | | | | | |
| LD1 | Laurel Ct | 5745 | 48 | 6530 | 8 | PVC | 161 | 0 | | | | | |
| LD1 | Kearsarge Way | 2533 | 50 | 3202 | 8 | PVC | 276 | 0 | | | | | |
| LD1 | Kearsarge Way | 50 | 49 | 3031 | 8 | PVC | 129 | 0 | | | | | |
| LD1 | Laurel Ct | 49 | 48 | 3032 | 8 | PVC | 126 | 0 | | | | | |
| LD1 | Laurel Ct | 48 | 47 | 3033 | 8 | PVC | 108 | 0 | | | | | |

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|----------|-------------------------------------|---------|--------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | X-Country or Easement | 47 | 2430 | 3034 | 8 | PVC | 81 | 0 | | | | | |
| LD1 | X-Country or Easement | 2430 | 2426 | 3040 | 12 | PVC | 197 | 0 | | | | | |
| LD1 | X-Country or Easement | 2426 | 4 | 3041 | 12 | PVC | 34 | 0 | | | | | |
| LD1 | I-95 NB Exit 7 Off ramp (Market St) | 4 | 2418 | 3042 | 12 | PVC | 192 | 0 | | | | | |
| LD1 | I-95 NB Exit 7 Off ramp (Market St) | 2418 | 2414 | 3043 | 12 | PVC | 265 | 0 | | | | | |
| LD1 | X-Country or Easement | 2414 | 2410 | 3044 | 12 | PVC | 336 | 0 | | | | | |
| LD1 | Michael Succi Dr | 2410 | 0 | - | 8 | PVC | | 1 | | | | | Unmapped MH 2410.1, tees into incoming line of MH 2410, LF unknown (Edited map included) |
| LD1 | Michael Succi Dr | 2410 | 2375 | 3045 | 12 | PVC | 274 | 0 | | | | | |
| LD1 | Spinnaker Way | 939 | 940 | 2955 | 8 | VCP | 246 | 1.5 | 0.2 | 940 | 1 | 940 | Wet walls in MH 940(Photo# 4919)/ 0.25 GPM in MH 939 |
| LD1 | Spinnaker Way | 940 | 941 | 2956 | 8 | VCP | 186 | 4.8 | | | | | |
| LD1 | Spinnaker Way | 941 | 942 | 2957 | 8 | VCP | 225 | 4.7 | 2 | 942 | | | Walls leaking in MH 942 - See Photo# 4920 |
| LD1 | Spinnaker Way | 942 | 943 | 2958 | 8 | VCP | 219 | 3.4 | 0.5 | 943 | 1 | 943 | Wet walls in MH 943 |
| LD1 | Spinnaker Way | 2361 | 5564 | 6464 | 8 | AC | 551 | 3.93 | | | | | Includes MH 943 |
| LD1 | No Name | 5564 | 5563 | 6465 | 8 | AC | 71 | 0 | | | | | |
| LD1 | Market St | 5563 | 2363 | 842 | 8 | AC | 207 | 3.2 | 0.75 | | 0.25 | 5563 | Wall leaking in MH 5563 - See Photo# 4921, 4922 |
| | Market St (new addition) | 2363 | 2363.1 | 842 | 8 | AC | 278 | 0 | 0.75 | 2363 | | | Wall leaking in unmapped MH 2363.1 (Edited map included) - See Photo# 4923 |
| LD1 | Kearsarge Way | 2363 | 2362 | 843 | 8 | AC | 278 | 0 | | | | | |
| LD1 | Birch St | 945 | 946 | 2959 | 8 | AC | 278 | 0.25 | 0.5 | | | | Includes incoming line from North into MH 945. Roots, wall leaking in MH 946 - See Photo# 4926 |
| LD1 | Kearsarge Way | 946 | 2362 | 3026 | 8 | AC | 297 | 0.25 | 1 | 2362 | | | Invert leaks in MH 2362 - See Photo# 4924, 4925 END OF 5/17/17 DATA BATCH |



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|----------|-------------------------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|----------|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | Kearsarge Way | 2362 | 5744 | 1449 | 8 | AC | 259 | 0 | | | | | |
| LD1 | I-95 SB Exit 7 Off ramp (Market St) | 5744 | 5743 | 1449 | 8 | AC | 97 | 0 | | | | | |
| LD1 | I-95 SB Exit 7 Off ramp (Market St) | 5743 | 978 | 1449 | 8 | AC | 122 | 0 | | | | | |
| LD1 | Interstate 95 N | 978 | 979 | 920 | 8 | AC | 154 | 0 | | | | | |
| LD1 | I-95 NB Exit 7 Off ramp (Market St) | 979 | 980 | 921 | 8 | AC | 89 | 0 | | | | | |
| LD1 | I-95 NB Exit 7 Off ramp (Market St) | 980 | 981 | 917 | 8 | AC | 197 | 0 | | | | | |
| LD1 | Market St | 981 | 982 | 918 | 10 | AC | 248 | 1 | | | | | |
| LD1 | Market St | 982 | 983 | 919 | 10 | AC | 196 | 0.5 | | | | | |
| LD1 | Market St | 983 | 984 | 915 | 10 | AC | 223 | 0.25 | | | | | |
| LD1 | Market St | 984 | 985 | 916 | 10 | AC | 301 | 2 | | | | | |
| LD1 | Cutts Ave | 0 | 1022 | 5202 | 6 | PVC | 262 | 0 | | | | | |
| LD1 | Cutts Ave | 1022 | 1021 | 3028 | 8 | AC | 145 | 0 | | | | | |
| LD1 | Chase Dr | 1021 | 1020 | 3029 | 8 | AC | 44 | 0 | | | | | |
| LD1 | Chase Dr | 1020 | 1019 | 911 | 8 | AC | 243 | 0 | | | | | |
| LD1 | Brigham Ln | 5484 | 5485 | 5386 | 8 | PVC | 96 | 0 | | | | | |
| LD1 | Brigham Ln | 5485 | 5486 | 5387 | 8 | PVC | 155 | 0 | | | | | |
| LD1 | Brigham Ln | 5486 | 5487 | 5388 | 8 | PVC | 41 | 0 | | | | | |
| LD1 | X-Country or Easement | 5487 | 5488 | 5389 | 8 | PVC | 41 | 0 | | | | | |
| LD1 | Chase Dr | 5488 | 5489 | 5391 | 8 | PVC | 66 | 0 | | | | | |
| LD1 | Chase Dr | 5489 | 1019 | 5390 | 8 | PVC | 46 | 0 | | | | | |
| LD1 | Chase Dr | 1019 | 1018 | 912 | 8 | AC | 215 | 0 | | | | | |
| LD1 | Chase Dr | 1018 | 1017 | 913 | 8 | AC | 226 | 0 | | | | | |
| LD1 | Michael Succi Dr | 2375 | 1014 | 3046 | 14 | AC | 255 | 0 | | | | | |
| LD1 | Michael Succi Dr | 1014 | 1015 | 3047 | 14 | AC | 198 | 0 | | | | | |
| LD1 | Michael Succi Dr | 1015 | 1016 | 3048 | 14 | AC | 200 | 0 | | | | | |



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|----------|---------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | Chase Dr | 0 | 1017 | 3049 | 14 | AC | 209 | 0 | | | | | Note: Believe that "0" in the From MH should be listed as "1016". |
| LD1 | Market St | 1017 | 985 | 914 | 14 | AC | 191 | 0 | | | | | |
| LD1 | Market St | 985 | 2365 | 904 | 15 | CAS | 103 | 0 | | | | | |
| LD1 | Market St | 2365 | 65 | 905 | 15 | PVC | 21 | 0 | | | | | |
| M1 | Oleary Pl | 5319 | 759 | 4782 | 6 | PVC | 148 | 0 | | | | | |
| M1 | Oleary Pl | 0 | 759 | 1445 | 6 | PVC | 217 | 0 | | | | | |
| M1 | Oleary Pl | 759 | 111 | 833 | 8 | PVC | 100 | 0.25 | | | | | |
| M1 | Fairview Ave | 111 | 110 | 834 | 8 | PVC | 28 | 1 | | | | | |
| M1 | Maplewood Ave | 110 | 2129 | 835 | 8 | PVC | 127 | 0.5 | | | | | |
| M1 | Edmond Ave | 0 | 109 | 1447 | 4 | AC | 126 | 0 | | | | | |
| M1 | Edmond Ave | 109 | 108 | 822 | 8 | PVC | 56 | 0 | | | | | |
| M1 | Edmond Ave | 108 | 2131 | 823 | 8 | PVC | 75 | 0 | | | | | |
| M1 | Edmond Ave | 2131 | 2130 | 824 | 8 | PVC | 25 | 0 | | | | | |
| M1 | Maplewood Ave | 2130 | 102 | 825 | 8 | PVC | 98 | 0 | | | | | |
| LD1 | Ashland St | 0 | 86 | 1452 | 8 | PVC | 91 | 0 | | | | | |
| LD1 | Ashland St | 85 | 83 | 884 | 8 | PVC | 765 | 0 | | | | | Includes MH 86 |
| LD1 | Cutts St | 5180 | 5181 | 4002 | 0 | UNKNOWN | 59 | 0 | | | | | |
| LD1 | Central Ave | 5181 | 1032 | 4003 | 0 | UNKNOWN | 78 | 0 | | | | | |
| LD1 | Central Ave | 1032 | 84 | 874 | 8 | PVC | 36 | 0 | | | | | |
| LD1 | Central Ave | 84 | 83 | 875 | 8 | PVC | 203 | 0 | | | | | |
| LD1 | Central Ave | 83 | 82 | 876 | 8 | PVC | 179 | 0 | | | | | |
| LD1 | Cutts St | 82 | 81 | 877 | 8 | PVC | 184 | 0.1 | | | | | |
| LD1 | Cutts St | 81 | 2134 | 878 | 8 | PVC | 82 | 0 | | | | | |
| LD1 | Leslie Dr | 1024 | 1028 | 887 | 8 | PVC | 210 | 0 | | | | | |
| LD1 | Cutts St | 1028 | 75 | 888 | 8 | PVC | 275 | 0 | | | | | |
| LD1 | Cutts St | 75 | 2134 | 889 | 8 | PVC | 31 | 0 | | | | | |
| LD1 | Cutts St | 2134 | 74 | 879 | 8 | PVC | 34 | 0 | | | | | |



PORTSMOUTH, NH
FLOW ISOLATION LOG
MAY 11-19, 2017

| SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|------------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| LD1 | Cutts St | 2136 | 2135 | 885 | 8 | PVC | 164 | 0 | | | | | |
| LD1 | Cutts St | 2135 | 74 | 886 | 8 | PVC | 67 | 0 | | | | | |
| LD1 | Leslie Dr | 2364 | 1025 | 890 | 8 | PVC | 136 | 0 | | | | | |
| LD1 | Leslie Dr | 1025 | 80 | 891 | 8 | PVC | 483 | 0 | | | | | |
| LD1 | Leslie Dr | 80 | 79 | 892 | 8 | PVC | 42 | 0 | | | | | |
| LD1 | Leslie Dr | 79 | 2133 | 893 | 8 | PVC | 125 | 0.25 | | | | | |
| LD1 | Leslie Dr | 2133 | 78 | 894 | 8 | PVC | 78 | 0.5 | | | | | |
| LD1 | Leslie Dr | 0 | 2140 | 1453 | 8 | PVC | 304 | 2 | | | | | |
| LD1 | Leslie Dr | 2140 | 78 | 895 | 8 | PVC | 11 | 0 | | | | | |
| LD1 | Leslie Dr | 78 | 73 | 896 | 8 | PVC | 154 | 0.5 | | | | | |
| LD1 | X-Country or Easement | 67 | 66 | 901 | 8 | PVC | 1264 | 3.8 | | | | | Includes MH's 73, 72, 71, 70, 69, 74, 68 |
| LD1 | X-Country or Easement | 66 | 65 | 902 | 8 | PVC | 307 | 0 | | | | | |
| LD1 | X-Country or Easement | 65 | 64 | 903 | 14 | DIP | 309 | 0 | | | | | |
| LD1 | Albacore Museum Access | 64 | 2366 | 906 | 14 | DIP | 459 | 0 | | | | | END OF 5/18/17 DATA BATCH |
| M1 | Maplewood Ave | 767 | 769 | 837 | 8 | VCP | 213 | 2 | | | | | |
| M1 | Maplewood Ave | 769 | 106 | 838 | 8 | VCP | 141 | 1.75 | | | | | |
| M1 | Maplewood Ave | 106 | 2359 | 839 | 8 | PVC | 13 | 0 | | | | | |
| M1 | Maplewood Ave | 2359 | 105 | 840 | 8 | PVC | 169 | 0 | | | | | |
| M1 | Maplewood Ave | 105 | 104 | 841 | 8 | PVC | 261 | 0 | | | | | |
| M1 | Maplewood Ave | 104 | 2128 | 828 | 8 | PVC | 20 | 0 | | | | | |
| M1 | Maplewood Ave | 2128 | 2129 | 829 | 8 | PVC | 132 | 0 | | | 5 | 2129 | MH 2129 has a pipe connection leak from incoming line MH 2128 - See Photo#4928 |
| M1 | Maplewood Ave | 2129 | 2132 | 830 | 8 | PVC | 223 | 0.4 | | | | | |
| M1 | Maplewood Ave | 2132 | 103 | 831 | 8 | PVC | 137 | 4.7 | | | | | |
| M1 | Maplewood Ave | 2360 | 103 | 836 | 8 | DIP | 34 | 0 | | | | | |
| M1 | Maplewood Ave | 103 | 102 | 832 | 8 | PVC | 89 | 0.5 | | | | | |

PORTSMOUTH, NH
FLOW ISOLATION LOG
MAY 11-19, 2017

| SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|-------------------------------------|---------|-------|---------------|----------------|----------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| M1 | Maplewood Ave | 102 | 101 | 826 | 10 | PVC | 138 | 0.75 | | | | | |
| M1 | Maplewood Ave | 101 | 100 | 827 | 10 | PVC | 36 | 0.2 | | | | | |
| M1 | I-95 NB Exit 7 Off ramp (Market St) | 100 | 99 | 1448 | 10 | PVC | 274 | 0.75 | | | | | |
| M1 | Maplewood Ave | 99 | 98 | 872 | 10 | PVC | 19 | 0.25 | | | | | |
| M1 | Maplewood Ave | 98 | 97 | 873 | 10 | PVC | 193 | 0 | | | | | |
| M1 | Maplewood Ave | 97 | 96 | 871 | 10 | PVC | 313 | 0.25 | | | | | |
| M1 | Maplewood Ave | 96 | 95 | 870 | 10 | PVC | 332 | 0 | | | | | |
| M1 | Maplewood Ave | 2794 | 95 | 3348 | 8 | UNKNOWN | 306 | 4 | | | | | Includes MH 2792 |
| M1 | Maplewood Ave | 95 | 94 | 864 | 10 | PVC | 186 | 0 | | | | | |
| M1 | Cutts St | 94 | 93 | 865 | 10 | PVC | 149 | 0 | | | | | |
| M1 | US Route 1 Bypass S | 116 | 115 | 546 | 8 | DIP | 170 | 0 | | | | | |
| M1 | US Route 1 Bypass S | 115 | 114 | 1457 | 8 | DIP | 234 | 0 | | | | | |
| M1 | US Route 1 Bypass S | 114 | 93 | 869 | 8 | DIP | 112 | 0 | | | | | |
| M1 | US Route 1 Bypass N | 93 | 92 | 866 | 10 | PVC | 115 | 0 | | | | | Sag in downstream line in MH 93 causing surcharging |
| M1 | US Route 1 Bypass N | 113 | 112 | 867 | 10 | DIP | 274 | 0 | | | | | |
| M1 | US Route 1 Bypass N | 112 | 92 | 868 | 10 | DIP | 121 | 0 | | | | | |
| M1 | US 1B Off ramp (Cutts Av) | 92 | 89 | 1458 | 12 | PVC | 162 | 0 | | | | | END OF 5/19/17 DATA BATCH |
| | | | | | | TOTALS: | 48161 | 176.86 | | | | | |

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|-----------|---------|---------------|---------|--------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 5/23/2017 | HS11 | Bartlett St | 1630 | 1402 | 326 | 8 | VCP | 91 | 0.5 | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1402 | 1401 | 1333 | 8 | VCP | 249 | 2.4 | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1401 | 1400 | 338 | 8 | VCP | 259 | 3 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Woodbury Ave | 1433 | 1400 | 341 | 8 | PVC | 231 | 0.25 | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1400 | 1399 | 1329 | 8 | VCP | 28 | 0 | | | | | Note: FROM MH originally listed as "0" |
| 5/23/2017 | HS11 | Woodbury Ave | 5402 | 1399 | 5009 | 8 | PVC | 180 | 0.1 | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1406 | 2241 | 3491 | 10 | UNKNOWN | 241 | 0.1 | | | | | |
| 5/23/2017 | HS11 | Cottage St | 2240 | 2240.1 | 1327 | 8 | VCP | 230 | 1 | | | | | Unmapped MH 2240.1 - Edited map included. Footage estimated |
| 5/23/2017 | HS11 | Cottage St | 2240.1 | 2239 | - | 8 | VCP | 109 | 1 | | | | | Footage estimated |
| 5/23/2017 | HS11 | Morning St | 2239 | 2242 | 3241 | 8 | VCP | 498 | 1.5 | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 2241 | 2242 | 1326 | 10 | VCP | 196 | 0.2 | | | | | |
| 5/23/2017 | HS11 | Morning St | 2242 | 1403 | 1325 | 10 | VCP | 19 | 0 | | | | | |
| 5/23/2017 | HS11 | Morning St | 1403 | 1398 | 3484, 3485 | 10 | UNKNOWN | 390 | 0.25 | | | | | This includes line sections 1403 - 0 and 0 - 1398 |
| 5/23/2017 | HS11 | Woodbury Ave | 1399 | 1398 | 343 | 8 | PVC | 219 | 1.8 | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1398 | 1397 | 344 | 8 | VCP | 129 | 0 | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1397 | 5530 | 6484 | 12 | VCP | 36 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Bartlett St | 5530 | 5531 | 5733 | 10 | PVC | 12 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Bartlett St | 5531 | 5532 | 5734 | 10 | PVC | 61 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Bartlett St | 5532 | 5535 | 5736 | 10 | PVC | 94 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Madison St | 0 | 1344 | 3416 | 8 | PVC | 180 | 2 | | | | | |
| 5/23/2017 | HS11 | Madison St | 0 | 1344 | 3517 | 12 | PVC | 134 | 0.75 | | | | | |
| 5/23/2017 | HS11 | Madison St | 2257 | 0 | 382 | 8 | VCP | 101 | 0 | | | | | |
| 5/23/2017 | HS11 | Madison St | 1344 | 0 | 3511 | 12 | UNKNOWN | 7 | 0 | | | | | Note: Believe the FROM MH and TO MH should be switched |
| 5/23/2017 | HS11 | Lovell St | 1344 | 5096 | 3412 | 12 | PVC | 305 | 0 | | | | | |
| 5/23/2017 | HS11 | Cass St | 5096 | 1340 | 3408 | 12 | PVC | 76 | 0.3 | | | | | |
| 5/23/2017 | HS11 | Cass St | 1341 | 1340 | 1279 | 8 | AC | 281 | 0.3 | | | | | |
| 5/23/2017 | HS11 | Cass St | 5834 | 5835 | 6654 | 12 | PVC | 208 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | State St | 5835 | 5837 | 6641 | 12 | PVC | 301 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | State St | 5836 | 5837 | 6640 | 12 | PVC | 47 | 0 | | | | | Note: Line section originally listed as "5838 - 0" |
| 5/23/2017 | HS11 | Cass St | 5839 | 5840 | 6637 | 8 | PVC | 223 | 0.1 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | State St | 5840 | 1338 | 6638 | 8 | PVC | 229 | 0.2 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Albany St | 5841 | 5842 | 6642 | 8 | PVC | 290 | 0.25 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Albany St | 5846 | 5847 | 6657 | 15 | PVC | 143 | 0.25 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Bartlett St | 5847 | 5548 | 6658 | 15 | PVC | 104 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Chevrolet Ave | 5845 | 5833 | 6650 | 8 | PVC | 137 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Chevrolet Ave | 5843 | 5833 | 6651 | 8 | PVC | 251 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Chevrolet Ave | 5833 | 5097 | 6652 | 8 | PVC | 77 | 0 | | | | | |
| 5/24/2017 | HS11 | Cass St | 5829 | 5830 | 6646 | 8 | PVC | 152 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Friend St | 5829 | 5097 | 1291 | 6 | VCP | 159 | 0 | | | | | MH 5829 has no outgoing line to MH 5097, however, MH 5097 has an inlet from that direction. |
| 5/24/2017 | HS11 | Chevrolet Ave | 5097 | 5832 | 1290 | 6 | VCP | 93 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Cass St | 5832 | 0 | 6653 | 8 | PVC | 154 | 0 | | | | | Note: Believe the TO MH should be one of the MH's within cluster... |
| 5/23/2017 | HS11 | Bartlett St | 1330 | 1331 | 364 | 36 | BR | 203 | 6 | | | 0.25 | 1331 | MH 1331 appears to have no floor - See Photo# 4945. Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Bartlett St | 1331 | 5548 | 362 | 24 | PVC | 14 | 0 | 1 | 1331 | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Jewett Ct | 5548 | 5547 | 5769 | 18 | PVC | 205 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Jewett Ct | 5547 | 5546 | 5756 | 24 | PVC | 396 | 0 | | | | | Includes MH 5537. Note: TO MH originally listed as "0" see 0-1440 note on next page |
| 5/24/2017 | HS11 | Islington St | 2253 | 1441 | 3245 | 36 | BR | 618 | 2 | | | | | Includes MH's 5548, 1333, 1335, 1334 |
| 5/24/2017 | HS11 | Islington St | 2248 | 2249 | 1315 | 15 | VCP | 207 | 0 | | | | | |
| 5/23/2017 | HS11 | Islington St | 2249 | 1439 | 1314 | 15 | VCP | 266 | 0 | | | | | Downstream line of MH 2249 has offset joint - See Photo# 4946 |
| 5/23/2017 | HS11 | Islington St | 0 | 1439 | 3243 | 8 | VCP | 149 | 1 | | | | | |
| 5/23/2017 | HS11 | Islington St | 1439 | 5545 | 6433 | 15 | VCP | 73 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/23/2017 | HS11 | Islington St | 5546 | 5545 | 5753 | 24 | PVC | 72 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Islington St | 5545 | 5542 | 5767 | 24 | PVC | 122 | 0 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" |
| 5/24/2017 | HS11 | Islington St | 1440 | 0 | 1310 | 8 | VCP | 148 | 0 | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----------|------|-------------------------|--------|--------|---------|----|---------|---------|-----------|-----|-----|------|------|--|--|--------------------------|--|--|--|
| 5/24/2017 | HS11 | X-Country or Easement | 2245 | 5541 | 1303 | 12 | VCP | 448 | 0.75 | | | | | | Includes MH 5730. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5541 | 5543 | 5742 | 10 | PVC | 136 | 0.1 | | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5543 | 5544 | 5744 | 10 | PVC | 56 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5544 | 5542 | 5745 | 30 | PVC | 58 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 1441 | 5544 | 352 | 36 | BR | 24 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5542 | 5540 | 5771 | 30 | PVC | 120 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5540 | 5536 | 5748 | 30 | PVC | 143 | 0 | | | | | | Lamped line - no leaks visible. Roots at 12:00 in downstream - See Photo# 4948. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Boyd Rd | 1412 | 1413 | 327 | 8 | VCP | 260 | 0.6 | | | | | | | | | | |
| 5/24/2017 | HS11 | Boyd Rd | 1413 | 1414 | 328 | 8 | VCP | 271 | 0.75 | | | | | | | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.4 | 1414.3 | UNKNOWN | 8 | VCP | UNKNOWN | 0.1 | | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.3 | 1414.2 | UNKNOWN | 8 | VCP | UNKNOWN | 0.25 | | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.2 | 1414.1 | UNKNOWN | 8 | VCP | UNKNOWN | 0.3 | | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.1 | 1414 | UNKNOWN | 8 | VCP | UNKNOWN | 0.5 | | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 0 | 5736 | 6514 | 0 | UNKNOWN | 43 | 0.25 | | | | | | Note: Line section originally listed as "5736 - 5736" | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5735 | 0 | 6512 | 0 | UNKNOWN | 192 | 0.1 | | | | | | Note: Believe TO MH should be "5736" *need clarification on direction of flow* | | | | |
| 5/24/2017 | HS11 | US Route 1 Bypass S | 5735 | 2238 | 6511 | 0 | UNKNOWN | 147 | 0.1 | | | | | | | | | | |
| 5/24/2017 | HS11 | Coakley Rd | 1416 | 1417 | 332 | 8 | VCP | 959 | 1.8 | | | | | | Includes MH's 1414, 1415, 1416(Could not locate), and 2238. Walls weeping/mineral deposits - See Photo# 4949 | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5109 | 5110 | 3495 | 0 | UNKNOWN | 206 | 0.6 | | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 5110 | 1420 | 1328 | 8 | AC | 128 | 0.5 | | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 1420 | 1419 | 3497 | 8 | UNKNOWN | 31 | 0.25 | | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 1419 | 1418 | 334 | 8 | VCP | 298 | 1.2 | | | 1 | 1418 | | | | | | |
| 5/24/2017 | HS11 | Inland | 1418 | 1417 | 3499 | 8 | UNKNOWN | 299 | 0.5 | | | | | | | | | | |
| 5/24/2017 | HS11 | Coakley Rd | 1417 | 1421 | 330 | 10 | VCP | 222 | 0.75 | | | | | | | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 1421 | 1422 | 337 | 10 | VCP | 110 | 3 | | | | | | No measurement taken at downstream MH 1387 due to surcharging. | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 5213 | 0 | 4120 | 8 | PVC | 296 | 0 | | | | | | Includes LF for line section 0 - 5212 | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 5212 | 523 | 4116 | 8 | PVC | 199 | 0 | | | 0.25 | 5213 | | | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 522 | 523 | 1337 | 18 | AC | 409 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 523 | 524 | 208 | 18 | AC | 291 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 524 | 5411 | 5095 | 18 | PVC | 412 | MATELY 10 | | | | | | Joint leak 3' upstream of MH 5411 - See Photo# 4951 and Video# 4952 | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5411 | 5412 | 5094 | 18 | PVC | 437 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5412 | 5854 | 5093 | 18 | PVC | 246 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5854 | 5410 | 5093 | 18 | PVC | 147 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5410 | 5856 | | 18 | PVC | 296 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5856 | 5855 | | 18 | PVC | 275 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5855 | 529 | | 18 | PVC | 204 | 0 | | | | | | Lamped line - no leaks visible. No measurement taken at downstream MH 1387 due to surcharging. | | | | |
| 5/23/2017 | HS11 | Cate St | 1389 | 1390 | 349 | 12 | VCP | 391 | 0.5 | | | | | | Heavy mineral deposits in MH 1390 - See Photo# 4931 | | | | |
| 5/23/2017 | HS11 | Cate St | 1390 | 1392 | 350 | 12 | VCP | 230 | 0 | | | | | | | | | | |
| 5/23/2017 | HS11 | Cate St | 1391 | 1392 | 351 | 10 | VCP | 122 | 0 | | | | | | | | | | |
| 5/23/2017 | HS11 | Singer | 1392 | 1393 | 346 | 24 | PVC | 170 | 0 | | | | | | | | | | |
| 5/24/2017 | HS11 | Bartlett St | 1393 | 5539 | 5738 | 24 | PVC | 99 | 0 | | | | | | TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5539 | 5536 | 5737 | 24 | PVC | 37 | 0 | | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5536 | 5535 | 5749 | 36 | PVC | 94 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5535 | 5534 | 5739 | 36 | PVC | 154 | 0 | | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5534 | 0 | 5735 | 36 | PVC | 35 | 0 | | | | | | Lamped line - no leaks visible | | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 608 | 609 | 3053 | 8 | AC | 267 | 0.5 | | | | | | Includes MH 607. MH 608 blocked by car | <<PRIVATE AREA REVISITED | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 5331 | 609 | 3058 | 8 | AC | 151 | 0.2 | | | | | | | | | | |
| 5/23/2017 | P1 | Windsor Rd | 610 | 611 | 3055 | 8 | AC | 362 | 1 | | | | | | MH 610 blocked by car. Includes MH 609 | | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 612 | 611 | 3057 | 8 | AC | 304 | 0.3 | | | | | | | | | | |
| 5/23/2017 | P1 | Windsor Rd | 611 | 615 | 3056 | 8 | AC | 230 | 2 | 0.5 | 615 | | | | Pipe connection leak at - See Photo# 4932, 4933 | | | | |
| 5/23/2017 | P1 | Weald Rd | 613 | 614 | 3050 | 8 | AC | 158 | 0.1 | | | | | | MH 613 blocked by car | | | | |

| | | | | | | | | | | | | | | | | |
|-----------|-----|---------------|------|------|------|----|---------|------|------|-----|-----|---|------|---|--|--|
| 5/23/2017 | P1 | Weald Rd | 614 | 615 | 3051 | 8 | AC | 150 | 0.25 | | | | | | | |
| 5/23/2017 | P1 | Weald Rd | 615 | 2732 | 3059 | 8 | AC | 139 | 3 | | | 1 | 2732 | | | |
| 5/23/2017 | P1 | Woodbury Ave | 2732 | 624 | 3062 | 10 | AC | 237 | 5 | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 644 | 625 | 3067 | 10 | AC | 212 | 4 | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 0 | 625 | 4693 | 0 | UNKNOWN | 43 | 0.6 | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 625 | 626 | 3068 | 10 | AC | 273 | 0 | | | | | Moderate mineral deposits - See Photo# 4936 | | |
| 5/23/2017 | P1 | Oriental Gdns | 626 | 627 | 3069 | 10 | AC | 213 | 0 | 0.5 | 627 | | | Wall seam leak in MH 627 - See Photo# 4939 | | |
| 5/23/2017 | GR1 | Oriental Gdns | 629 | 628 | 3079 | 14 | AC | 1427 | 0 | | | | | Includes MH's 634, 633, 632, 631, 630, 627. | | |
| 5/23/2017 | P1 | Oriental Gdns | 6256 | 6255 | 6256 | 8 | | 807 | 2.5 | | | | | Includes MH's 6259, 6258, 6257 | | |
| 5/23/2017 | P1 | Oriental Gdns | 6255 | 6251 | 6255 | 8 | | 69 | 0 | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 6253 | 6252 | 6252 | 8 | | 323 | 2.5 | | | | | Includes 6254 | | |
| 5/23/2017 | P1 | Oriental Gdns | 6252 | 6251 | 6251 | 8 | | 83 | 0 | | | | | | | |



PORTSMOUTH, NH
FLOW ISOLATION LOG
MAY 23 - 24, 2017

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS | | | | |
|-----------|---------|-----------------------|---------|--------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|--|--|--|--|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1630 | 1402 | 326 | 8 | VCP | 91 | 0.5 | | | | | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1402 | 1401 | 1333 | 8 | VCP | 249 | 2.4 | | | | | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1401 | 1400 | 338 | 8 | VCP | 259 | 3 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1433 | 1400 | 341 | 8 | PVC | 231 | 0.25 | | | | | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1400 | 1399 | 1329 | 8 | VCP | 28 | 0 | | | | | Note: FROM MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 5402 | 1399 | 5009 | 8 | PVC | 180 | 0.1 | | | | | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1406 | 2241 | 3491 | 10 | UNKNOWN | 241 | 0.1 | | | | | | | | | |
| 5/23/2017 | HS11 | Cottage St | 2240 | 2240.1 | 1327 | 8 | VCP | 230 | 1 | | | | | Unmapped MH 2240.1 - Edited map included. Footage estimated | | | | |
| 5/23/2017 | HS11 | Cottage St | 2240.1 | 2239 | - | 8 | VCP | 109 | 1 | | | | | Footage estimated | | | | |
| 5/23/2017 | HS11 | Morning St | 2239 | 2242 | 3241 | 8 | VCP | 498 | 1.5 | | | | | | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 2241 | 2242 | 1326 | 10 | VCP | 196 | 0.2 | | | | | | | | | |
| 5/23/2017 | HS11 | Morning St | 2242 | 1403 | 1325 | 10 | VCP | 19 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Morning St | 1403 | 1398 | 3484, 3485 | 10 | UNKNOWN | 390 | 0.25 | | | | | This includes line sections 1403 - 0 and 0 - 1398 | | | | |
| 5/23/2017 | HS11 | Woodbury Ave | 1399 | 1398 | 343 | 8 | PVC | 219 | 1.8 | | | | | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1398 | 1397 | 344 | 8 | VCP | 129 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1397 | 5530 | 6484 | 12 | VCP | 36 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Bartlett St | 5530 | 5531 | 5733 | 10 | PVC | 12 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| | | | | | | | | | | | | | | Note: Map incorrect, MH 5532 does not exist - connects to MH 5535 | | | | |
| 5/23/2017 | HS11 | Bartlett St | 5531 | 5535 | 5734, 5736 | 10 | PVC | 155 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Madison St | 0 | 1344 | 3416 | 8 | PVC | 180 | 2 | | | | | | | | | |
| 5/23/2017 | HS11 | Madison St | 0 | 1344 | 3517 | 12 | PVC | 134 | 0.75 | | | | | | | | | |
| 5/23/2017 | HS11 | Madison St | 2257 | 0 | 382 | 8 | VCP | 101 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Madison St | 0 | 1344 | 3511 | 12 | UNKNOWN | 7 | 0 | | | | | Note: Line section originally listed as "1344 - 0" | | | | |
| 5/23/2017 | HS11 | Lovell St | 1344 | 5096 | 3412 | 12 | PVC | 305 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Cass St | 5096 | 1340 | 3408 | 12 | PVC | 76 | 0.3 | | | | | | | | | |
| 5/23/2017 | HS11 | Cass St | 1341 | 1340 | 1279 | 8 | AC | 281 | 0.3 | | | | | | | | | |
| 5/23/2017 | HS11 | Cass St | 5834 | 5835 | 6654 | 12 | PVC | 208 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | State St | 5835 | 5837 | 6641 | 12 | PVC | 301 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | State St | 5836 | 5837 | 6640 | 12 | PVC | 47 | 0 | | | | | Note: Line section originally listed as "5838 - 0" | | | | |
| 5/23/2017 | HS11 | Cass St | 5839 | 5840 | 6637 | 8 | PVC | 223 | 0.1 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | State St | 5840 | 1338 | 6638 | 8 | PVC | 229 | 0.2 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Albany St | 5838 | 5846 | 6643 | 15 | PVC | 224 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Albany St | 5841 | 5842 | 6642 | 8 | PVC | 290 | 0.25 | | | | | Note: TO MH originally listed as "0" | | | | |
| | HS11 | Albany St | 0 | 5842 | - | - | - | - | 0.25 | | | | | Incoming line from Northeast into MH 5842, not listed on GIS | | | | |
| 5/23/2017 | HS11 | Albany St | 5842 | 5846 | 6644 | 8 | PVC | 175 | 0.1 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Albany St | 5846 | 5847 | 6657 | 15 | PVC | 143 | 0.25 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Bartlett St | 5847 | 5548 | 6658 | 15 | PVC | 104 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Chevrolet Ave | 5845 | 5833 | 6650 | 8 | PVC | 137 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Chevrolet Ave | 5843 | 5833 | 6651 | 8 | PVC | 251 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Chevrolet Ave | 5833 | 5832 | 6652 | 8 | PVC | 77 | 0 | | | | | Note: TO MH originally listed as "5097" | | | | |
| 5/24/2017 | HS11 | Cass St | 5829 | 5830 | 6646 | 8 | PVC | 152 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| | | | | | | | | | | | | | | MH 5829 has no outgoing line to MH 5097, however, MH 5097 has an inlet from that direction. | | | | |
| 5/24/2017 | HS11 | Chevrolet Ave | 5097 | 5832 | 1290 | 6 | VCP | 93 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Cass St | 5832 | 5834 | 6653 | 8 | PVC | 154 | 0.25 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1330 | 1331 | 364 | 36 | BR | 203 | 6 | | | 0.25 | 1331 | MH 1331 appears to have no floor - See Photo# 4945. Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Bartlett St | 1331 | 5548 | 362 | 24 | PVC | 14 | 0 | 1 | 1331 | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Jewett Ct | 5548 | 5547 | 5769 | 18 | PVC | 205 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Jewett Ct | 5547 | 5546 | 5756 | 24 | PVC | 396 | 0 | | | | | Includes MH 5537. Note: TO MH originally listed as "0". | | | | |
| 5/24/2017 | HS11 | Islington St | 2253 | 1441 | 3245 | 36 | BR | 514 | 2 | | | | | Includes MHs 1333, 1335, 1334 | | | | |
| 5/24/2017 | HS11 | Islington St | 2248 | 2249 | 1315 | 15 | VCP | 207 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Islington St | 2249 | 1439 | 1314 | 15 | VCP | 266 | 0 | | | | | Downstream line of MH 2249 has offset joint - See Photo# 4946 | | | | |
| 5/23/2017 | HS11 | Islington St | 0 | 1439 | 3243 | 8 | VCP | 149 | 1 | | | | | | | | | |
| 5/23/2017 | HS11 | Islington St | 1439 | 5545 | 6433 | 15 | VCP | 73 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/23/2017 | HS11 | Islington St | 5546 | 5545 | 5753 | 24 | PVC | 72 | 0 | | | | | Note: TO MH originally listed as "0" | | | | |
| | | | | | | | | | | | | | | Lamped line - no leaks visible. Could not locate MH 1440. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5545 | 5542 | 5767 | 24 | PVC | 122 | 0 | | | | | Includes MH 5730. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 2245 | 5541 | 1303 | 12 | VCP | 448 | 0.75 | | | | | Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5541 | 5543 | 5742 | 10 | PVC | 136 | 0.1 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| | | | | | | | | | | | | | | | | | | |
| 5/24/2017 | HS11 | Islington St | 5543 | 5544 | 5744 | 10 | PVC | 56 | 0 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Islington St | 5544 | 5542 | 5745 | 30 | PVC | 58 | 0 | | | | | | | | | |

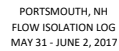
| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS | | | | |
|-----------|---------|-------------------------|---------|--------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|--------------------------|--|--|--|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | | | | | |
| 5/24/2017 | HS11 | Islington St | 1441 | 5542 | 352 | 36 | BR | 24 | 0 | | | | | Lamped line - no leaks visible. Note: Map incorrect, MH 1441 connects to MH 5542 (edited map included) | | | | |
| 5/24/2017 | HS11 | Islington St | 5542 | 5540 | 5771 | 30 | PVC | 120 | 0 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5540 | 5536 | 5748 | 30 | PVC | 143 | 0 | | | | | Lamped line - no leaks visible. Roots at 12:00 in downstream - See Photo# 4948. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Boyd Rd | 1412 | 1413 | 327 | 8 | VCP | 260 | 0.6 | | | | | | | | | |
| 5/24/2017 | HS11 | Boyd Rd | 1413 | 1414 | 328 | 8 | VCP | 271 | 0.75 | | | | | | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.4 | 1414.3 | UNKNOWN | 8 | VCP | UNKNOWN | 0.1 | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.3 | 1414.2 | UNKNOWN | 8 | VCP | UNKNOWN | 0.25 | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.2 | 1414.1 | UNKNOWN | 8 | VCP | UNKNOWN | 0.3 | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | US 1 OFFRAMP TO BOYD RD | 1414.1 | 1414 | UNKNOWN | 8 | VCP | UNKNOWN | 0.5 | | | | | Unmapped manhole - Edited map included | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 0 | 5736 | 6514 | 0 | UNKNOWN | 43 | 0.25 | | | | | Note: Line section originally listed as "5736 - 5736" | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5736 | 5735 | 6512 | 0 | UNKNOWN | 192 | 0.1 | | | | | Note: Line section originally listed as "5735 - 0" | | | | |
| 5/24/2017 | HS11 | US Route 1 Bypass S | 5735 | 2238 | 6511 | 0 | UNKNOWN | 147 | 0.1 | | | | | | | | | |
| 5/24/2017 | HS11 | Coakley Rd | 1416 | 1417 | 332 | 8 | VCP | 959 | 1.8 | | | | | Includes MH's 1414, 1415, 1416(Could not locate), and 2238. MH 1417 walls weeping/mineral deposits - See Photo# 4949 | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5109 | 5110 | 3495 | 0 | UNKNOWN | 206 | 0.6 | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 5110 | 1420 | 1328 | 8 | AC | 128 | 0.5 | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 1420 | 1419 | 3497 | 8 | UNKNOWN | 31 | 0.25 | | | | | | | | | |
| 5/24/2017 | HS11 | Cottage St | 1419 | 1418 | 334 | 8 | VCP | 298 | 1.2 | | | | 1 | 1418 | | | | |
| 5/24/2017 | HS11 | Inland | 1418 | 1417 | 3499 | 8 | UNKNOWN | 299 | 0.5 | | | | | | | | | |
| 5/24/2017 | HS11 | Coakley Rd | 1417 | 1421 | 330 | 10 | VCP | 222 | 0.75 | | | | | | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 1421 | 1422 | 337 | 10 | VCP | 110 | 3 | | | | | No measurement taken at downstream MH 1387 due to surcharging. | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 5213 | 0 | 4120 | 8 | PVC | 296 | 0 | | | | | Includes LF for line section 0 - 5212 | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 5212 | 523 | 4116 | 8 | PVC | 199 | 0 | 0.25 | | | 5213 | | | | | |
| 5/24/2017 | HS14 | Borthwick Ave | 522 | 523 | 1337 | 18 | AC | 409 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 523 | 524 | 208 | 18 | AC | 291 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 524 | 5411 | 5095 | 18 | PVC | 412 | APPROXIMATELY 10 | | | | | Joint leak 3' upstream of MH 5411 - See Photo# 4951 and Video# 4952 | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5411 | 5412 | 5094 | 18 | PVC | 437 | 0 | | | | | Lamped line - no leaks visible. Line sections 5412 - 527, 527 - 528 and 528 - 529 do not exist. | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5412 | 5854 | 5093 | 18 | PVC | 246 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5854 | 5410 | 5093 | 18 | PVC | 147 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5410 | 5856 | | 18 | PVC | 296 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5856 | 5855 | | 18 | PVC | 275 | 0 | | | | | Lamped line - no leaks visible | | | | |
| 5/24/2017 | HS14 | X-Country or Easement | 5855 | 529 | | 18 | PVC | 204 | 0 | | | | | Lamped line - no leaks visible. No measurement taken at downstream MH 1387 due to surcharging. | | | | |
| 5/23/2017 | HS11 | Cate St | 1389 | 1390 | 349 | 12 | VCP | 391 | 0.5 | | | | | Heavy mineral deposits in MH 1390 - See Photo# 4931 | | | | |
| 5/23/2017 | HS11 | Cate St | 1390 | 1392 | 350 | 12 | VCP | 230 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Cate St | 1391 | 1392 | 351 | 10 | VCP | 122 | 0 | | | | | | | | | |
| 5/23/2017 | HS11 | Singer | 1392 | 1393 | 346 | 24 | PVC | 170 | 0 | | | | | | | | | |
| 5/24/2017 | HS11 | Bartlett St | 1393 | 5539 | 5738 | 24 | PVC | 99 | 0 | | | | | TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5536 | 5539 | 5737 | 24 | PVC | 37 | 0 | | | | | | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5539 | 5535 | 5749 | 36 | PVC | 94 | 0 | | | | | Lamped line - no leaks visible. Note: Map incorrect, 5536 does not connect 5535. (Edited map included) | | | | |
| 5/24/2017 | HS11 | Bartlett St | 5535 | 5534 | 5739 | 36 | PVC | 154 | 0 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0" | | | | |
| 5/24/2017 | HS11 | X-Country or Easement | 5534 | 5533 | 5735 | 36 | PVC | 35 | 0 | | | | | Lamped line - no leaks visible. Note: TO MH originally listed as "0". Note: Unable to access line section 5533 - 2247 due to locked gate. | | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 608 | 609 | 3053 | 8 | AC | 267 | 0.5 | | | | | Includes MH 607. MH 608 blocked by car | <<PRIVATE AREA REVISITED | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 5331 | 609 | 3058 | 8 | AC | 151 | 0.2 | | | | | | | | | |
| 5/23/2017 | P1 | Windsor Rd | 610 | 611 | 3055 | 8 | AC | 362 | 1 | | | | | MH 610 blocked by car. Includes MH 609 | | | | |
| 5/23/2017 | P1 | Wedgewood Rd | 612 | 611 | 3057 | 8 | AC | 304 | 0.3 | | | | | | | | | |
| 5/23/2017 | P1 | Windsor Rd | 611 | 615 | 3056 | 8 | AC | 230 | 2 | 0.5 | | 615 | | Pipe connection leak at - See Photo# 4932, 4933 | | | | |
| 5/23/2017 | P1 | Weald Rd | 613 | 614 | 3050 | 8 | AC | 158 | 0.1 | | | | | MH 613 blocked by car | | | | |
| 5/23/2017 | P1 | Weald Rd | 614 | 615 | 3051 | 8 | AC | 150 | 0.25 | | | | | | | | | |
| 5/23/2017 | P1 | Weald Rd | 615 | 2732 | 3059 | 8 | AC | 139 | 3 | | | | 1 | 2732 | | | | |
| 5/23/2017 | P1 | Woodbury Ave | 2732 | 624 | 3062 | 10 | AC | 237 | 5 | | | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 644 | 625 | 3067 | 10 | AC | 212 | 4 | | | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 0 | 625 | 4693 | 0 | UNKNOWN | 43 | 0.6 | | | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 625 | 626 | 3068 | 10 | AC | 273 | 0 | | | | | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 626 | 627 | 3069 | 10 | AC | 213 | 0 | 0.5 | | 627 | | Moderate mineral deposits - See Photo# 4936 | | | | |
| 5/23/2017 | GR1 | Oriental Gdns | 629 | 628 | 3079 | 14 | AC | 1427 | 0 | | | | | Wall seam leak in MH 627 - See Photo# 4939 | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 6256 | 6255 | 6256 | 8 | | 807 | 2.5 | | | | | Includes MH's 634, 633, 632, 631, 630, 627. | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 6255 | 6251 | 6255 | 8 | | 69 | 0 | | | | | Includes MH's 6259, 6258, 6257 | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 6253 | 6252 | 6252 | 8 | | 323 | 2.5 | | | | | Includes 6254 | | | | |



PORTSMOUTH, NH
FLOW ISOLATION LOG
MAY 23 - 24, 2017

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS | | | | |
|-----------|---------|---------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|----------|--|--|--|--|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | | | | | |
| 5/23/2017 | P1 | Oriental Gdns | 6252 | 6251 | 6251 | 8 | | 83 | 0 | | | | | | | | | |
| | | | | | TOTALS: | | | 23692 | 60.7 | | | | | | | | | |

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | N-1 LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|-----------|---------|----------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 6/1/2017 | LR4 | Plains Ave | 5444 | 5480 | 5225 | 8 | PVC | 155 | 0 | | | | | Note: Line section originally listed as "0 - C" |
| 6/1/2017 | LR4 | Plains Ave | 5480 | 412 | 6449 | 8 | AC | 144 | 0 | | | | | |
| 6/1/2017 | LR4 | Pearson St | 0 | 414 | 4183 | 8 | AC | 185 | 0 | | | | | |
| 6/1/2017 | LR4 | Pearson St | 414 | 0 | 4184, 4182 | 8 | UNKNOWN | 575 | 0.5 | | | | | MH 413 is paved over, includes LF from 413 - 41 |
| 6/1/2017 | LR4 | Plains Ave | 412 | 411 | 4191 | 8 | AC | 277 | 0 | | | | | |
| 6/1/2017 | LR4 | Middle Rd | 411 | 410 | 4193 | 8 | AC | 52 | 0 | | | | | |
| 6/1/2017 | LR4 | Middle Rd | 410 | 409 | 4195 | 8 | AC | 279 | 0 | | | | | |
| 6/1/2017 | LR4 | Peverly Hill Rd | 409 | 408 | 4196 | 8 | AC | 199 | 0 | | | | | |
| 6/1/2017 | LR4 | McClintock Ave | 408 | 407 | 1855 | 8 | AC | 242 | 0 | 1 | 407 | | | MH 407 has pipe connection leak in outgoing line of 1 GPM See Photo# 4992 |
| 6/1/2017 | LR4 | McClintock Ave | 407 | 406 | 1839 | 8 | AC | 205 | 0 | 1.2 | 406 | | | MH 406 has 0.5 GPM pipe connection leak in incoming line See Photo# 4993 and 0.7 GPM pipe connection leak in outgoing - See Photo# 4994 |
| 6/1/2017 | LR4 | Moffat St | 406 | 405 | 1840 | 8 | AC | 190 | 0 | | | | | |
| 6/1/2017 | LR4 | Moffat St | 405 | 420 | 1841 | 8 | AC | 226 | 0 | | | | | |
| 5/31/2017 | LR4 | Leavitt Ave | 542 | 543 | 1874 | 8 | AC | 298 | 0 | | | | | |
| 5/31/2017 | LR4 | McClintock Ave | 543 | 544 | 1853 | 8 | AC | 264 | 0.25 | 0.75 | 544 | | | Incoming line from MH 543 to MH 544 has connection leak See Photo# 4981, 4982, 4983, 4984 |
| 6/1/2017 | LR4 | Woodworth Ave | 549 | 548 | 1846 | 8 | AC | 187 | 0 | | | | | |
| 6/1/2017 | LR4 | Woodworth Ave | 548 | 2726 | 1847 | 8 | AC | 205 | 0 | 0.05 | 2726 | | | MH 2726 has pipe connection leak from MH 548 - See Photo# 5000 |
| 6/1/2017 | LR4 | Sweatt Ave | 553 | 552 | 1875 | 8 | AC | 220 | 0.25 | | | | | |
| 6/1/2017 | LR4 | McClintock Ave | 552 | 551 | 1849 | 8 | AC | 259 | 0.2 | | | | | MH 551 has pipe connection leak of 0.15 GPM from incoming line - See Photo# 4997. Outgoing line of MH 551 has pipe connection leak of 2 GPM - See Photo# 4996 |
| 6/1/2017 | LR4 | McClintock Ave | 550 | 551 | 1851 | 8 | AC | 199 | 0.3 | 0.25 | 551 | | | MH 551 has pipe connection leak - See Photo# 4996 |
| 6/1/2017 | LR4 | Woodworth Ave | 551 | 2726 | 1850 | 8 | AC | 207 | 0.6 | 0.25 | 2726 | | | MH 2726 has incoming pipe connection leak from - See Photo# 4999 |
| 6/1/2017 | LR4 | Woodworth Ave | 546 | 2726 | 1852 | 8 | AC | 185 | 0 | 0.2 | 546 | | | MH 2726 has pipe connection leak from 546 - See Video 4998 |
| 6/1/2017 | LR4 | Woodworth Ave | 2726 | 544 | 1848 | 8 | AC | 200 | 0.7 | | | | | |
| 6/1/2017 | LR4 | McClintock Ave | 544 | 545 | 1844 | 8 | AC | 206 | 1 | | | | | MH 545 has pipe connection leak of 0.8 GPM from incoming line - See Photo# 5004. Outgoing pipe connection leak of 0.5 GPM - See Photo# 5006 |
| 6/1/2017 | LR4 | Moffat St | 545 | 420 | 1845 | 8 | AC | 195 | 2 | | | | | |
| 6/1/2017 | LR4 | Moffat St | 419 | 418 | 1843 | 8 | AC | 208 | 3 | | | | | |
| 6/1/2017 | LR4 | Peverly Hill Rd | 402 | 401 | 1787 | 8 | AC | 284 | 0 | | | | | Could not locate MH 419, includes MH 421 |
| 6/1/2017 | LR4 | Peverly Hill Rd | 401 | 400 | 1877 | 8 | AC | 111 | 0 | | | | | |
| 6/1/2017 | LR4 | Peverly Hill Rd | 400 | 399 | 1826 | 8 | AC | 100 | 0.1 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 399 | 398 | 1827 | 8 | AC | 207 | 0.1 | | | | | |
| 6/1/2017 | LR4 | Peverly Hill Rd | 404 | 403 | 1831 | 8 | AC | 298 | 0.1 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 403 | 398 | 1832 | 8 | AC | 247 | 0.1 | | | | | |
| 5/31/2017 | LR4 | Woodworth Ave | 554 | 555 | 4142 | 8 | VCP | 161 | 8 | | | | | MH 554 and 555 are surcharged - See Photo# 4978 (554) and 4979 (555) |
| 5/31/2017 | LR4 | Woodworth Ave | 555 | 556 | 4143 | 8 | VCP | 211 | 0.25 | | | | | |
| 5/31/2017 | LR4 | Middle Rd | 556 | 557 | 4144 | 8 | VCP | 194 | 0 | | | | | |
| 5/31/2017 | LR4 | Middle Rd | 557 | 558 | 4145 | 8 | VCP | 250 | 0 | | | | | |
| 5/31/2017 | LR4 | Middle Rd | 558 | 559 | 4146 | 8 | VCP | 117 | 0 | | | | | |
| 5/31/2017 | LR4 | Middle Rd | 559 | 961 | 4147 | 8 | VCP | 122 | 0 | | | | | |
| 5/31/2017 | LR4 | Middle Rd | 961 | 560 | 4148 | 8 | VCP | 137 | 0 | | | | | |
| 5/31/2017 | HS15 | Middle Rd | 560 | 563 | 4149 | 8 | VCP | 463 | 0 | | | | | |
| 6/1/2017 | LR4 | Middle Rd | 2210 | 2208 | 656 | 8 | AC | 233 | | | | 3.25 | 2210 | |
| 6/1/2017 | LR4 | Middle Rd | 2208 | 2209 | 637 | 8 | AC | 250 | 0.5 | | | | | |
| 6/1/2017 | LR4 | Middle Rd | 2209 | 561 | 638 | 8 | AC | 145 | 0 | | | | | |
| 6/1/2017 | LR4 | Sylvester St | 561 | 562 | 639 | 8 | AC | 141 | 0 | | | | | |
| 6/1/2017 | LR4 | Marjorie St | 562 | 565 | 640 | 8 | AC | 199 | 1.2 | | | | | |
| 6/1/2017 | LR4 | Marjorie St | 564 | 565 | 642 | 8 | AC | 199 | 0.4 | | | | | Pipe connection leak in line from MH 56 |
| 6/1/2017 | LR4 | Marjorie St | 565 | 566 | 641 | 8 | AC | 191 | 0 | | | | | |
| 6/1/2017 | LR4 | Marjorie St | 566 | 567 | 1397 | 8 | AC | 293 | 0 | | | | | |
| 5/31/2017 | HS15 | Middle Rd | 563 | 577 | 4150 | 8 | VCP | 206 | 0 | | | | | |
| 5/31/2017 | HS15 | Middle Rd | 577 | 578 | 4159 | 8 | VCP | 218 | 0 | | | | | |
| 6/1/2017 | LR4 | Lois St | 576 | 575 | 1396 | 8 | AC | 267 | 0.1 | | | | | |
| 6/1/2017 | LR4 | Lois St | 575 | 574 | 549 | 8 | AC | 216 | 0.2 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 574 | 573 | 550 | 8 | AC | 153 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 573 | 567 | 551 | 8 | AC | 216 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 567 | 568 | 552 | 8 | AC | 205 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 568 | 569 | 1876 | 8 | AC | 258 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 569 | 570 | 1879 | 8 | AC | 186 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 570 | 571 | 1880 | 8 | AC | 66 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 571 | 2203 | 1886 | 8 | AC | 124 | 0 | | | | | |
| 6/1/2017 | LR4 | X-Country or Easemen | 2203 | 572 | 1887 | 8 | AC | 70 | 0 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 572 | 389 | 1882 | 8 | AC | 188 | 0 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1635 | 1053 | 565 | 4 | PVC | 173 | 0 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1053 | 1052 | 557 | 8 | VCP | 66 | 0 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1052 | 1051 | 558 | 8 | VCP | 131 | 0 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1051 | 1050 | 559 | 8 | VCP | 126 | 0.1 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1050 | 1049 | 560 | 8 | VCP | 29 | 0.25 | | | | | |
| 6/1/2017 | LR4 | Hillside Dr | 1049 | 1048 | 561 | 8 | VCP | 262 | 0.3 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 1048 | 1047 | 562 | 8 | VCP | 400 | 0.6 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 1058 | 1057 | 553 | 8 | VCP | 278 | 0 | | | | | MH 1058 shows fresh water in manhole - See Photo# 4999 |
| 6/1/2017 | LR4 | Greenleaf Ave | 1057 | 1056 | 554 | 8 | VCP | 162 | 0.2 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 1056 | 1055 | 556 | 8 | VCP | 397 | 1.25 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 1055 | 1047 | 555 | 8 | VCP | 305 | 3 | | | 0.75 | 1047 | |
| 6/1/2017 | LR4 | Greenleaf Ave | 1047 | 1631 | 563 | 8 | VCP | 89 | 8 | | | | | Could not locate MH 1631 |
| 6/1/2017 | LR4 | Greenleaf Ave | 1631 | 394 | 564 | 8 | VCP | 172 | 2.75 | | | | | |
| 6/1/2017 | LR4 | No Name | 394 | 392 | 1881 | 8 | AC | 321 | 0.75 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 392 | 391 | 1885 | 8 | AC | 198 | 0.5 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 391 | 390 | 1884 | 8 | AC | 222 | 0.5 | | | | | |
| 6/1/2017 | LR4 | Greenleaf Ave | 390 | 389 | 1883 | 8 | AC | 209 | 0.75 | | | | | |
| 5/31/2017 | HS15 | Middle Rd | 578 | 597 | 4160 | 8 | VCP | 239 | 0.1 | | | | | |
| 5/31/2017 | HS15 | Sheffield Rd | 597 | 5685 | 6468 | 8 | VCP | 173 | 0.4 | 0.1 | 5685 | | | Mineral deposits in MH 5685 - See Photo# 4975, 4976. Note: TO MH originally listed as "0" |
| 5/31/2017 | HS15 | Sheffield Rd | 5685 | 580 | 4161 | 8 | VCP | 160 | 0.8 | | | | | |
| 5/31/2017 | HS15 | Essex Ave | 591 | 592 | 4157 | 8 | VCP | 270 | 0 | | | | | |
| 5/31/2017 | HS15 | Essex Ave | 592 | 593 | 4158 | 8 | VCP | 279 | 0 | | | | | |
| 5/31/2017 | HS15 | Melbourne St | 5893 | 5894 | 6992 | 8 | PVC | 110 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/31/2017 | HS15 | Melbourne St | 5894 | 5401 | 6993 | 8 | PVC | 30 | 0 | | | | | Note: TO MH originally listed as "0" |
| 5/31/2017 | HS15 | Melbourne St | 5401 | 2728 | 5008 | 8 | VCP | 480 | 1 | | | | | |

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| | | | | | | | | | | | | | | | | | | | |
|-----------|------|-----------------------|--------|--------|------|-----------|-----------|------|--|--|------|--|--|--|--|--|--|--|---|
| 5/31/2017 | HS14 | Coakley Rc | 532 | 533 | 320 | 8 VCP | 178 | 0.5 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 533 | 534 | 321 | 8 VCP | 315 | 1.5 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Larry Ln | 535 | 2237 | 324 | 8 VCP | 184 | 0.3 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 2237 | 534 | 1336 | 8 VCP | 135 | 0.5 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 534 | 5342 | 322 | 8 PVC | 230 | 2 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 2727 | 537 | 185 | 8 VCP | 197 | 0.1 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 537 | 538 | 186 | 8 VCP | 80 | 0.3 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 0 | 540 | 1335 | 8 VCP | 561 | 6 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 540 | 541 | 323 | 8 VCP | 121 | 1 | | | | | | | | | | | Includes MH 538 |
| 5/31/2017 | HS14 | Coakley Rc | 5342 | 541 | 4802 | 8 PVC | 111 | 0.5 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Coakley Rc | 541 | 5341 | 1334 | 8 UNKNOWN | 88 | 0.25 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Borthwick Ave | 5341 | 530 | 6378 | 8 UNKNOWN | 189 | 0.3 | | | | | | | | | | | |
| 5/31/2017 | HS14 | Borthwick Ave | 2219 | 530 | 192 | 8 PVC | 341 | 0.75 | | | | | | | | | | | |
| 5/31/2017 | HS14 | X-Country or Easemen | 5316 | 527 | 193 | 8 UNKNOWN | 459 | 2.3 | | | | | | | | | | | Includes MH 530 |
| 5/31/2017 | HS14 | X-Country or Easemen | 527 | 5410 | 5092 | 10 PVC | 136 | 0.7 | | | | | | | | | | | Note: TO MH originally listed as "0" |
| 5/31/2017 | HS11 | X-Country or Easemen | 1387 | 1388 | 1321 | 12 VCP | 344 | 0 | | | | | | | | | | | Lamped line - looks good |
| 5/31/2017 | HS11 | Borthwick Ave | 1388 | 1389 | 1320 | 12 VCP | 413 | 0 | | | | | | | | | | | Lamped line - looks good |
| 6/2/2017 | LR4 | X-Country or Easement | 418 | 417 | 1836 | 8 AC | 277 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | X-Country or Easement | 417 | 416 | 1837 | 8 AC | 175 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | X-Country or Easement | 416 | 415 | 1838 | 8 AC | 152 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | Greenleaf Ave | 415 | 396 | 1835 | 8 AC | 167 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | Greenleaf Ave | 398 | 397 | 1828 | 8 AC | 245 | 0 | | | | | | | | | | | MH 397 has pipe connection leak of 6 GPM at incoming line - See Video# 5009 |
| 6/2/2017 | LR4 | Greenleaf Ave | 397 | 396 | 1829 | 8 AC | 299 | 0 | | | | | | | | | | | MH 396 has pipe connection leak of 6 GPM at incoming line - See Video# 5007 |
| 6/2/2017 | LR4 | Greenleaf Ave | 396 | 395 | 1830 | 10 AC | 162 | 0 | | | 0.5 | | | | | | | | MH 395 has pipe connection leak at incoming line - See Photo# 5010, 5011 |
| 6/2/2017 | LR4 | Greenleaf Woods Dr | 375 | 376 | 1893 | 10 AC | 1129 | 8 | | | | | | | | | | | Includes MH's 396, 372, 5872, 373, 374. MH 376 has mineral deposits - See Photo# 5023, 5024 |
| 6/2/2017 | LR4 | Greenleaf Woods Dr | 376 | 377 | 1894 | 10 AC | 162 | 0 | | | | | | | | | | | MH 377 has pipe connection leak of GPM at incoming line - See Photo# 5022 |
| 6/2/2017 | LR4 | Greenleaf Woods Dr | 378 | 379 | | 10 AC | About 155 | 0 | | | | | | | | | | | Could not locate MH 378. Includes MH 377. MH 379 wall leak of GPM - See Photo# 5019, 5021. **Note: Line section 378-380-381 does not exist, see edited map #15** |
| 6/2/2017 | LR4 | Greenleaf Ave | 389 | 388 | 1888 | 8 AC | 256 | 4.9 | | | 2.25 | | | | | | | | Encasement in line from MH 385 to MH 387. "upstream" of MH 389 - See Photo# 5014. Pipe connection leak of 0.75 GPM from East service line - See Photo# 5015. Pipe connection leak at service line from West of 1.5 GPM - See Photo# 5016 |
| 6/2/2017 | LR4 | Holiday Dr | 388 | 5394 | 1889 | 10 AC | 297 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | X-Country or Easement | 5422 | 5394 | 5121 | 8 UNKNOWN | 742 | 4 | | | | | | | | | | | Includes MH's 5423, 5421. Note: TO MH originally listed as "0" |
| 6/2/2017 | LR4 | X-Country or Easement | 5394 | 379 | 6388 | 10 AC | 21 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR4 | X-Country or Easement | 379 | 2204 | 1890 | 10 AC | 283 | 0 | | | | | | | | | | | MH 2204 has wall leaks of 0.75 GPM - See Photo# 5025 |
| 6/2/2017 | LR4 | X-Country or Easement | 2204 | 2204.1 | - | 14 AC | 146 | 0 | | | | | | | | | | | 5026. Mineral deposits - See Photo# 5027 |
| 6/2/2017 | LR4 | Lafayette Rd | 2204.1 | 382 | - | - | 146 | 0 | | | | | | | | | | | See Edited field map #5. Pipe connection leak at incoming line of 2 GPM - See Photo# 5028, 5029. Pipe connection leak at outgoing line of 1.5 GPM - See Photo# 5030 |
| 6/2/2017 | LR4 | Lafayette Rd | 382 | 382.1 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5. Pipe connection leak at incoming line of 5 GPM - See Photo# 5031, 5032. Downstream line has pipe connection leak of 0.75 GPM and mineral deposits - See Photo# jpg 5033. Leak at first downstream joint of outgoing line of 0.25 GPM - See Photo# 5034 |
| 6/2/2017 | LR4 | Lafayette Rd | 382.1 | 382.2 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5 |
| 6/2/2017 | LR4 | Lafayette Rd | 382.2 | 382.3 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5 |
| 6/2/2017 | LR4 | Lafayette Rd | 382.4 | 382.3 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5 |
| 6/2/2017 | LR4 | Lafayette Rd | 382.3 | 382.5 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5 |
| 6/2/2017 | LR4 | Lafayette Rd | 387 | 382.2 | - | - | - | 0 | | | | | | | | | | | See Edited field map #5 |
| 6/2/2017 | LR5 | Andrew Jarvis Dr | 1075 | 1074 | 566 | 8 AC | 304 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Andrew Jarvis Dr | 1074 | 1073 | 567 | 8 AC | 75 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Andrew Jarvis Dr | 1073 | 1072 | 568 | 8 AC | 98 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Lafayette Rd | 1072 | 1071 | 1931 | 8 VCP | 257 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Ledgewood Dr | 1071 | 1070 | 1930 | 8 VCP | 125 | 0.1 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Ledgewood Dr | 1070 | 1068 | 1929 | 8 VCP | 256 | 0.2 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1066 | 1065 | 1925 | 8 VCP | 173 | 0.75 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1065 | 1061 | 1926 | 8 VCP | 227 | 0.5 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Ledgewood Dr | 1045 | 1046 | 1915 | 10 AC | 1092 | 6 | | | | | | | | | | | Includes MH's 1041, 1042, 1043, 1044. MH 1046 has wall leaks of 4 GPM - See Photo# 5046, 5047 |
| 6/2/2017 | LR5 | Ledgewood Dr | 1046 | 1069 | 1916 | 10 AC | 135 | 0.5 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Ledgewood Dr | 1069 | 1068 | 1917 | 10 AC | 158 | 0.75 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1068 | 1067 | 1918 | 10 AC | 114 | 1.3 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1067 | 1064 | 1923 | 10 AC | 197 | 0.75 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1064 | 1061 | 1924 | 10 AC | 119 | 0.25 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1061 | 1060 | 1927 | 10 AC | 204 | 0 | | | | | | | | | | | |
| 6/2/2017 | LR5 | X-Country or Easement | 1060 | 1059 | 1928 | 16 AC | 406 | 0.75 | | | | | | | | | | | Includes MH 1063. MH 1059 has pipe connection leak at downstream line of 2 GPM - See Photo# 5037 |
| 6/2/2017 | LR5 | Ledgewood Dr | 1037 | 1038 | 1910 | 8 AC | 290 | 0.5 | | | | | | | | | | | |
| 6/2/2017 | LR5 | Ledgewood Dr | 1039 | 1038 | 1911 | 8 AC | 329 | 1 | | | | | | | | | | | MH 1037 has little leak or 1 GPM - see photo 5048 |
| 6/2/2017 | LR5 | Ledgewood Dr | 1038 | 1040 | 1909 | 8 AC | 98 | 0.75 | | | | | | | | | | | 5049. Pipe connection leak at outgoing line of 0.25 GPM - See Photo# JPG 5050. Wall leak of 0.1 GPM - See Photo# 5051. Pipe connection leak at incoming line of 0.4 GPM - See Photo# 5053 |
| 6/2/2017 | LR5 | X-Country or Easement | 1062 | 1063 | 1907 | 8 AC | 379 | 2 | | | | | | | | | | | Includes MH 1040. MH 1062 surcharged - see Photo# 5042. Walls leaking at 2 GPM - See Photo# 5039, 5040. Root intrusion/leak 3' downstream at joint of 1 GPM - See Photo# 5041 |
| 6/2/2017 | LR5 | Lafayette Rd | 1059 | 387 | 1904 | 16 AC | 152 | 0 | | | | | | | | | | | |
| 6/2/2017 | B1 | Decatur Rd | 461 | 462 | 597 | 8 VCP | 116 | 0 | | | | | | | | | | | |
| 6/2/2017 | B1 | Decatur Rd | 462 | 463 | 1347 | 8 VCP | 244 | 0 | | | | | | | | | | | |
| 6/2/2017 | B1 | Decatur Rd | 463 | 464 | 1345 | 8 VCP | 236 | 0 | | | | | | | | | | | |
| 6/2/2017 | B1 | Decatur Rd | 464 | 465 | 177 | 8 VCP | 165 | 0 | | | | | | | | | | | |

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|---------|-----------------------|---------|------------------------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|--|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 6/2/2017 | B1 | Holly Ln | 443 | 442 | 680 | 8 | VCP | 153 | 0 | | | | | |
| 6/2/2017 | B1 | Holly Ln | 442 | 441 | 681 | 8 | VCP | 149 | 0 | | | | | |
| 6/2/2017 | B1 | Holly Ln | 441 | 440 | 682 | 8 | VCP | 246 | 0 | | | | | |
| 6/2/2017 | B1 | Holly Ln | 5263 | 5264 | 4650 | 8 | PVC | 219 | 0 | | | | | |
| 6/2/2017 | B1 | Holly Ln | 5264 | 439 | 4633 | 8 | PVC | 176 | 0.1 | | | | | |
| 6/2/2017 | B1 | Holly Ln | 439 | 440 | 679 | 8 | VCP | 147 | 0.05 | | | | | |
| 6/2/2017 | B1 | Georges Ter | 440 | 471 | 685 | 8 | VCP | 346 | 0.25 | | | | | Moderate roots in MH 471 - See Photo# 5054 |
| 6/2/2017 | B1 | Georges Ter | 471 | 470 | 688 | 8 | VCP | 111 | 0.6 | | | | | |
| 6/2/2017 | B1 | Odin St | 470 | 469 | 689 | 8 | VCP | 252 | 0.75 | | | | | |
| 6/2/2017 | B1 | Odin St | 469 | 468 | 1343 | 8 | VCP | 270 | 1 | | | | | |
| 6/2/2017 | B1 | Colonial Dr | 468 | 467 | 173 | 8 | VCP | 318 | 1 | | | | | |
| 6/2/2017 | B1 | Colonial Dr | 474 | 473 | 690 | 8 | VCP | 429 | 0 | | | | | |
| 6/2/2017 | B1 | Mason Ave | 473 | 472 | 686 | 8 | VCP | 163 | 0 | | | | | |
| 6/2/2017 | B1 | Mason Ave | 472 | 2725 | 687 | 8 | VCP | 105 | 0 | | | | | |
| 6/2/2017 | B1 | Mason Ave | 2725 | 466 | 1344 | 8 | VCP | 267 | 0 | | | | | |
| 6/2/2017 | B1 | Decatur Rd | 466 | 465 | 175 | 8 | VCP | 254 | 0.1 | | | | | |
| 6/2/2017 | B1 | Colonial Dr | 465 | 467 | 176 | 8 | VCP | 241 | 0.15 | | | | | |
| 6/2/2017 | B1 | Victory Rd | 467 | 460 | 174 | 8 | VCP | 194 | 0.25 | 0.5 | 460 | | | |
| 6/5/2017 | P3 | West Rd | 5871 | 2188 | 6968 | 6 | PVC | 69 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 2188 | 2187 | 1775 | 8 | PVC | 154 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2187 | 2186 | 1943 | 8 | PVC | 424 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2186 | 2185 | 1719 | 8 | PVC | 291 | 0.25 | 0.75 | 2186 | | | |
| 6/5/2017 | P3 | X-Country or Easement | 5952 | 5951 | 7234 | 8 | PVC | 87 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | X-Country or Easement | 5951 | 5950 | 7235 | 8 | PVC | 236 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | X-Country or Easement | 5950 | 5949 | 7236 | 8 | PVC | 335 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | X-Country or Easement | 5949 | 5918 | 7103 | 8 | PVC | 197 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 5918 | 2185 | 7102 | 6 | PVC | 51 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 2185 | 2184 | 1720 | 8 | PVC | 199 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2184 | 2183 | 1721 | 8 | PVC | 230 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2183 | 2182 | 1722 | 8 | PVC | 268 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2182 | 2177 | 1723 | 8 | PVC | 349 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2177 | 2176 | 1945 | 8 | PVC | 249 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2176 | 2175 | 1661 | 8 | PVC | 243 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2173 | 2174 | 1659 | 8 | PVC | 257 | 0 | | | | | |
| 6/5/2017 | P3 | Campus Dr | 5557 | 5556 | 5780 | 8 | PVC | 298 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 5556 | 2174 | 5779 | 8 | PVC | 325 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 2174 | 5558 | 6463 | 8 | PVC | 314 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P3 | West Rd | 5558 | 2175 | 1660 | 8 | PVC | 332 | 0 | | | | | |
| 6/5/2017 | P3 | West Rd | 2175 | West Road Pump Station | 1944 | 8 | PVC | 46 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | LR6 | Constitution Ave | 239 | 238 | 1638 | 8 | AC | 256 | 0.1 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 238 | 237 | 1639 | 8 | AC | 170 | 0.25 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 237 | 236 | 1640 | 8 | AC | 230 | 25 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 227 | 228 | 1620 | 8 | AC | 176 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 228 | 229 | 1621 | 8 | AC | 239 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 229 | 5995 | 7473 | 8 | AC | 125 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | LR6 | Constitution Ave | 0 | 5994 | 7471 | 8 | PVC | 129 | 0 | | | | | Note: Line section originally listed as "5994 - 0", but direction of flow is opposite. |
| 6/5/2017 | LR6 | Constitution Ave | 5994 | 5995 | 7472 | 8 | PVC | 61 | 0 | | | | | Note: Line section originally listed as 5995 - 5994", but direction of flow is opposite. |
| 6/5/2017 | LR6 | Constitution Ave | 5995 | 230 | 1622 | 8 | AC | 167 | 0 | | | | | |

| DATE | SUBAREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|---------|------------------|---------|-------------------------------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 6/5/2017 | LR6 | Constitution Ave | 230 | 231 | 1980 | 8 | AC | 261 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 231 | 232 | 1643 | 8 | AC | 307 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 232 | 233 | 1644 | 8 | AC | 293 | 0 | | | 19.9 | 233 | |
| 6/5/2017 | LR6 | Constitution Ave | 233 | 234 | 1645 | 8 | AC | 162 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 234 | 235 | 1641 | 8 | AC | 147 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 235 | 236 | 1642 | 8 | AC | 277 | 0 | | | | | |
| 6/5/2017 | LR6 | Constitution Ave | 236 | Constitution Ave Pump Station | 1978 | 8 | AC | 53 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | LR6 | Heritage Ave | 2641 | 136 | 1587 | 8 | AC | 285 | 6 | | | | | |
| 6/5/2017 | LR6 | Heritage Ave | 136 | 2642 | 1588 | 8 | AC | 297 | 0.5 | | | | | |
| 6/5/2017 | LR6 | Heritage Ave | 2645 | 2644 | 1981 | 12 | AC | 357 | 0 | | | | | |
| 6/5/2017 | LR6 | Heritage Ave | 2644 | 2643 | 1585 | 12 | AC | 289 | 0.1 | | | | | |
| 6/5/2017 | LR6 | Heritage Ave | 2643 | 2642 | 1586 | 12 | AC | 193 | 0.25 | | | | | |
| 6/5/2017 | LR6 | Heritage Ave | 2642 | Heritage Road Pump Station | 1983 | 12 | AC | 60 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P2A | Fw Hartford Dr | 2405 | 2412 | 1631 | 8 | PVC | 381 | 0.25 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2412 | 2416 | 1630 | 8 | PVC | 199 | 0.3 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2416 | 2420 | 1629 | 8 | PVC | 342 | 1.25 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2420 | 2423 | 1975 | 8 | PVC | 332 | 0.15 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2423 | 2428 | 1582 | 8 | PVC | 342 | 0.6 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2438 | 2432 | 1583 | 8 | PVC | 192 | 0.25 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2428 | 5850 | 1584 | 8 | PVC | 144 | 0.25 | | | | | Note: FROM MH originally listed as "0" |
| 6/5/2017 | P2A | Fw Hartford Dr | 5850 | 2432 | 1584 | 8 | PVC | 9 | 0 | | | | | Note: TO MH originally listed as "5850" |
| 6/5/2017 | P2A | Fw Hartford Dr | 2446 | 2442 | 1632 | 8 | PVC | 369 | 0.1 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2442 | 2438 | 1972 | 8 | PVC | 316 | 0.3 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2438 | 2432 | 1583 | 8 | PVC | 192 | 0.25 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2432 | Woodlands 1 Pump Station | 1973 | 8 | PVC | 44 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P2A | Fw Hartford Dr | 2165 | 2166 | 1633 | 8 | AC | 244 | 0.25 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2166 | 2167 | 1634 | 8 | AC | 255 | 0.05 | | | | | |
| 6/5/2017 | P2A | T J Gamester Ave | 2167 | 2168 | 1635 | 8 | AC | 329 | 0.1 | | | | | |
| 6/5/2017 | P2A | T J Gamester Ave | 2169 | 2168 | 1636 | 8 | AC | 134 | 1 | | | | | |
| 6/5/2017 | P2A | T J Gamester Ave | 2168 | 2170 | 1637 | 8 | AC | 290 | 0.6 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 5851 | 2181 | 6660 | 8 | AC | 141 | 0.25 | | | | | Note: TO MH originally listed as "0" |
| 6/5/2017 | P2A | Fw Hartford Dr | 2181 | 2180 | 1718 | 8 | AC | 309 | 0.05 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2180 | 2179 | 1716 | 8 | AC | 292 | 0.1 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2179 | 2178 | 1717 | 8 | AC | 144 | 0.05 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2178 | 2170 | 1969 | 8 | AC | 300 | 0.05 | | | | | |
| 6/5/2017 | P2A | Fw Hartford Dr | 2170 | Woodlands 2 Pump Station | 1970 | 8 | AC | 35 | 0 | | | | | Note: TO MH originally listed as "0" |

| DATE | SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|----------|-----------------------|---------|-------|---------------|----------------|---------------|------------------|---------------------|----------------------|------|---------------------|------|---|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 6/7/2017 | LR6 | Lafayette Rd | 2634 | 2633 | 1609 | 8 | AC | 41 | 0 | | | | | |
| 6/7/2017 | LR6 | Constitution Ave | 2633 | 2632 | 1610 | 8 | AC | 150 | 0.25 | | | 1 | 2633 | |
| 6/7/2017 | LR6 | Constitution Ave | 765 | 226 | 1614 | 8 | AC | 106 | 0 | | | 4 | 765 | |
| 6/7/2017 | LR6 | Constitution Ave | 226 | 2632 | 1615 | 8 | AC | 43 | 0 | | | | | |
| 6/7/2017 | LR6 | Constitution Ave | 2632 | 2631 | 1611 | 8 | AC | 50 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2631 | 2630 | 1612 | 8 | AC | 341 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2630 | 2629 | 1613 | 8 | AC | 189 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2629 | 2628 | 1616 | 8 | AC | 113 | 0 | | | | | |
| 6/7/2017 | LR6 | White Cedar Blvd | 2628 | 2627 | 1617 | 12 | AC | 260 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2627 | 118 | 1618 | 12 | AC | 218 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 118 | 117 | 1619 | 12 | AC | 314 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 117 | 2626 | 1985 | 12 | AC | 216 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2626 | 2625 | 1528 | 12 | AC | 234 | 0 | | | | | |
| 6/7/2017 | LR6 | Post Rd | 2640 | 133 | 1589 | 8 | AC | 298 | 0 | | | 36 | 2640 | Heavy sewage from service from factory. Unsure if entire 36 GPM was groundwater or sewerage |
| 6/7/2017 | LR6 | Post Rd | 133 | 132 | 1590 | 8 | AC | 279 | 0 | | | | | |
| 6/7/2017 | LR6 | Post Rd | 132 | 2639 | 1591 | 12 | AC | 280 | 0 | | | | | |
| 6/7/2017 | LR6 | Heritage Ave | 2639 | 2638 | 1592 | 12 | AC | 282 | 0 | | | | | |
| 6/7/2017 | LR6 | Heritage Ave | 2638 | 2637 | 1593 | 12 | AC | 298 | 0 | | | | | |
| 6/7/2017 | LR6 | Heritage Ave | 2637 | 2636 | 1982 | 12 | AC | 322 | 0 | | | | | |
| 6/7/2017 | LR6 | Heritage Ave | 2636 | 2635 | 1529 | 12 | AC | 294 | 0 | | | | | Wet walls |
| 6/7/2017 | LR6 | Robert Ave | 2635 | 2624 | 1530 | 12 | AC | 200 | 0 | | | | | |
| 6/7/2017 | LR6 | Robert Ave | 2624 | 2625 | 1531 | 12 | AC | 145 | 0 | | | | | |
| 6/7/2017 | LR6 | Mariette Dr | 2569 | 2571 | 1542 | 8 | AC | 111 | 0 | | | | | |
| 6/7/2017 | LR6 | Mariette Dr | 2571 | 2573 | 1543 | 8 | AC | 239 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 2573 | 2575 | 1544 | 8 | AC | 290 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 2575 | 2577 | 1537 | 8 | AC | 222 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 2577 | 2578 | 1538 | 8 | RCP | 306 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 0 | 2511 | 5359 | 6 | PVC | 95 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 2511 | 2578 | 5358 | 8 | RCP | 57 | 0 | | | | | |
| 6/7/2017 | LR6 | Ocean Rd | 2578 | 2617 | 1536 | 10 | RCP | 373 | 0 | | | | | |
| 6/7/2017 | LR6 | Lang Rd | 2617 | 107 | 1532 | 10 | RCP | 329 | 0 | | | | | |
| 6/7/2017 | LR6 | Lang Rd | 107 | 2616 | 1533 | 10 | RCP | 168 | 0 | | | | | |
| 6/7/2017 | LR6 | X-Country or Easement | 5734 | 5733 | 6509 | 0 | UNKNOWN | 8 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/7/2017 | LR6 | X-Country or Easement | 5733 | 5732 | 6508 | 0 | UNKNOWN | 58 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/7/2017 | LR6 | X-Country or Easement | 5732 | 5731 | 6507 | 0 | UNKNOWN | 52 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/7/2017 | LR6 | Lang Rd | 5731 | 2619 | 5357 | 6 | PVC | 133 | 0 | | | | | |
| 6/7/2017 | LR6 | Lang Rd | 0 | 2619 | 5356 | 4 | UNKNOWN | 16 | 0 | | | | | |
| 6/7/2017 | LR6 | Lang Rd | 2619 | 2618 | 1534 | 8 | AC | 148 | 0 | | | | | |

| | | | | | | | | | | | | | | |
|----------|-----|--------------|------|------|------|----|---------|-----|------|--|------|------|--------------------|---|
| 6/7/2017 | LR6 | Suzanne Dr | 2618 | 2616 | 1535 | 8 | UNKNOWN | 42 | 0 | | | | | |
| 6/7/2017 | LR6 | Simonds Rd | 90 | 2602 | 1545 | 8 | AC | 203 | 0 | | | | | |
| 6/7/2017 | LR6 | Simonds Rd | 2615 | 2602 | 1518 | 8 | AC | 350 | 0 | | | | | |
| 6/7/2017 | LR6 | Simonds Rd | 2602 | 2603 | 1519 | 8 | AC | 184 | 0 | | | | | |
| 6/7/2017 | LR6 | Suzanne Dr | 2603 | 2604 | 1520 | 8 | AC | 136 | 0 | | | | | |
| 6/7/2017 | LR6 | Suzanne Dr | 2606 | 2605 | 1516 | 8 | AC | 146 | 0 | | | | | |
| 6/7/2017 | LR6 | Suzanne Dr | 2605 | 2604 | 1517 | 8 | AC | 102 | 0 | | | | | |
| 6/7/2017 | LR6 | Suzanne Dr | 2604 | 2616 | 1521 | 8 | AC | 300 | 0 | | | | | |
| 6/7/2017 | LR6 | Suzanne Dr | 2616 | 2620 | 1522 | 10 | AC | 130 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2620 | 2621 | 1523 | 10 | AC | 282 | 0 | | 8.6 | 2621 | Service from North | |
| 6/7/2017 | LR6 | Lafayette Rd | 2621 | 2622 | 1524 | 10 | AC | 97 | 0 | | | | | |
| 6/7/2017 | LR6 | Lafayette Rd | 2622 | 2623 | 1525 | 10 | AC | 251 | 0 | | | | | |
| 6/7/2017 | LR6 | Robert Ave | 2623 | 2625 | 1572 | 10 | AC | 421 | 0 | | | | | |
| 6/7/2017 | LR6 | Joan Ave | 2650 | 2651 | 1989 | 10 | AC | 314 | 0.5 | | 1.75 | 2650 | | |
| 6/7/2017 | LR6 | Joan Ave | 2651 | 2652 | 1573 | 10 | AC | 110 | 1 | | 6 | 2651 | | |
| 6/7/2017 | LR6 | Robert Ave | 2652 | 143 | 1988 | 10 | AC | 314 | 0.75 | | | | | |
| 6/7/2017 | LR6 | Ann Ave | 2649 | 2648 | 1581 | 10 | AC | 221 | 0 | | | | | |
| 6/7/2017 | LR6 | Ann Ave | 2648 | 143 | 1580 | 10 | AC | 301 | 0 | | | | | |
| 6/7/2017 | LR6 | Robert Ave | 143 | 2647 | 1576 | 10 | AC | 49 | 0 | | | | | |
| 6/7/2017 | LR6 | Robert Ave | 2646 | 2647 | 1579 | 8 | AC | 119 | 0.3 | | 3.5 | 2646 | | Pipe connection leak in incoming line of 1.5 GPM, outgoing line leak of 2 GPM |
| 6/7/2017 | LR3 | Suzanne Dr | 2607 | 2608 | 1515 | 8 | AC | 194 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2608 | 2609 | 1507 | 8 | AC | 285 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2609 | 2610 | 1508 | 8 | AC | 206 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2610 | 2611 | 1509 | 8 | AC | 185 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2611 | 2612 | 1510 | 8 | AC | 187 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2612 | 2613 | 1511 | 8 | AC | 92 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2614 | 2613 | 1514 | 8 | AC | 352 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2613 | 2595 | 3480 | 8 | UNKNOWN | 210 | 0 | | | | | |
| 6/7/2017 | LR3 | Wallis Rd | 2601 | 2600 | 1549 | 8 | AC | 120 | 0 | | | | | |
| 6/7/2017 | LR3 | Wallis Rd | 2600 | 2597 | 1550 | 8 | AC | 269 | 0 | | | | | |
| 6/7/2017 | LR3 | Suzanne Dr | 2597 | 2595 | 1551 | 8 | AC | 351 | 0 | | | | | |

| DATE | SUB AREA | LOCATION | FROM MH | TO MH | PIPE SEWER ID | PIPE SIZE (IN) | PIPE MATERIAL | PIPE LENGTH (LF) | NET LINE FLOW (GPM) | MANHOLE INFILTRATION | | * SERVICE FLOW | | COMMENTS |
|----------|----------|-----------------------|---------|-------|------------------|-------------------|------------------|------------------------|---------------------------|---------------------------|------|---------------------------|------|--|
| | | | | | | | | | | OBSERVED FLOW (GPM) | MH # | OBSERVED FLOW (GPM) | MH # | |
| 6/9/2017 | LR6 | Lafayette Rd | 2625 | 149 | 1526 | 14 | AC | 44 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 149 | 150 | 1527 | 14 | AC | 226 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 150 | 2653 | 1986 | 14 | AC | 277 | 0 | | | | | |
| 6/9/2017 | LR6 | Robert Ave | 2647 | 2653 | 1577 | 10 | AC | 150 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2653 | 2654 | 1578 | 14 | AC | 239 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2654 | 2655 | 1575 | 14 | AC | 317 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2655 | 2656 | 1990 | 14 | AC | 315 | 0 | | | | | |
| 6/9/2017 | LR6 | White Cedar Blvd | 2656 | 2657 | 1594 | 14 | AC | 318 | 0 | | | | | |
| 6/9/2017 | LR6 | White Cedar Blvd | 2657 | 2658 | 1595 | 14 | AC | 319 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2658 | 2659 | 1596 | 14 | AC | 315 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2659 | 2660 | 1597 | 14 | AC | 216 | 0 | | | | | |
| 6/9/2017 | LR6 | Springbrook Cir | 2660 | 2661 | 1598 | 14 | AC | 208 | 0 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2581 | 2583 | 1546 | 8 | AC | 85 | 0 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2583 | 2585 | 1547 | 8 | AC | 167 | 0 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2579 | 2585 | 1540 | 8 | AC | 142 | 0 | | | | | |
| 6/9/2017 | LR3 | Wallis Rd | 2585 | 2587 | 1541 | 8 | AC | 85 | 0 | | | | | |
| 6/9/2017 | LR3 | Wallis Rd | 2587 | 2589 | 1548 | 8 | AC | 360 | 0 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2589 | 2591 | 1574 | 8 | AC | 361 | 0 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2595 | 2593 | 1513 | 8 | AC | 78 | 5 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2593 | 2591 | 1552 | 8 | AC | 160 | 17 | | | | | |
| 6/9/2017 | LR3 | Suzanne Dr | 2591 | 2566 | 1553 | 8 | AC | 229 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2566 | 2560 | 1554 | 8 | AC | 123 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2567 | 2560 | 1557 | 8 | AC | 286 | 0 | | | | | |
| 6/9/2017 | LR3 | Ocean Rd | 2564 | 2562 | 1555 | 8 | AC | 117 | 0.1 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2562 | 2560 | 1556 | 8 | AC | 203 | 0.2 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2560 | 2554 | 1564 | 10 | AC | 208 | 0 | | | | | |
| 6/9/2017 | LR3 | Pamela Dr | 2551 | 2553 | 1560 | 8 | AC | 152 | 0.05 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2553 | 2554 | 3472 | 8 | UNKNOWN | 202 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2554 | 2556 | 3474 | 10 | UNKNOWN | 212 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2556 | 2558 | 1563 | 10 | AC | 54 | 0 | | | | | |
| 6/9/2017 | LR3 | Denise St | 2558 | 2538 | 3477 | 10 | UNKNOWN | 164 | 0 | | | | | |
| 6/9/2017 | LR3 | Denise St | 2540 | 2538 | 3468 | 8 | UNKNOWN | 321 | 0 | | | | | |
| 6/9/2017 | LR3 | Denise St | 2538 | 2536 | 3465 | 10 | UNKNOWN | 274 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2534 | 2536 | 1993 | 8 | AC | 237 | 0 | | | | | |
| 6/9/2017 | LR3 | Mariette Dr | 2536 | 2466 | 1504 | 10 | AC | 155 | 0 | | | | | |
| 6/9/2017 | LR3 | Nathaniel Dr | 2466 | 1646 | 3351 | 10 | AC | 145 | 0 | | | | | |
| 6/9/2017 | LR3 | Nathaniel Dr | 1649 | 1648 | 4599 | 8 | PVC | 229 | 0 | | | | | |
| 6/9/2017 | LR3 | Nathaniel Dr | 1648 | 1647 | 4623 | 8 | PVC | 300 | 0 | | | | | |
| 6/9/2017 | LR3 | Nathaniel Dr | 1647 | 1646 | 4619 | 8 | PVC | 297 | 0 | | | | | |
| 6/9/2017 | LR3 | X-Country or Easement | 2455 | 2452 | 1483 | 10 | AC | 1389 | 12 | | | | | Includes MH's 1646, 2464, 2462, 2460, 2458 |
| 6/9/2017 | LR3 | X-Country or Easement | 2419 | 2415 | 1865 | 10 | AC | 2724 | 3.2 | | | | | Includes MH's 2452, 2449, 2445, 2441, 2437, 2436, 2431, 2427, 2422 |
| 6/9/2017 | LR3 | X-Country or Easement | 2415 | 2411 | 1866 | 10 | AC | 234 | 0 | | | | | |
| 6/9/2017 | LR6 | Mariette Dr | 2549 | 2547 | 1558 | 8 | AC | 93 | 0 | | | | | |



PORTSMOUTH, NH
FLOW ISOLATION
JUNE 9th and 13th, 2017

| | | | | | | | | | | | | | | |
|----------|-----|-----------------------|------|-----------------------|------|---|---------|-----|------|------|------|------|------|---|
| 6/9/2017 | LR6 | Mariette Dr | 2547 | 2545 | 1559 | 8 | AC | 72 | 0 | | | | | |
| 6/9/2017 | LR6 | Denise St | 2545 | 2543 | 1565 | 8 | AC | 223 | 0 | | | | | |
| 6/9/2017 | LR6 | Denise St | 2541 | 2542 | 1570 | 8 | AC | 264 | 0 | | | | | |
| 6/9/2017 | LR6 | Denise St | 2542 | 2543 | 1571 | 8 | AC | 199 | 0 | | | | | |
| 6/9/2017 | LR6 | Denise St | 2543 | 2527 | 1566 | 8 | AC | 232 | 0.05 | | | | | |
| 6/9/2017 | LR6 | Mariette Dr | 2531 | 2529 | 1568 | 8 | AC | 289 | 0.05 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2529 | 2527 | 1569 | 8 | AC | 248 | 0.1 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2527 | 2525 | 1567 | 8 | AC | 116 | 0.1 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2525 | 2521 | 1995 | 8 | AC | 157 | 0.1 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 1652 | 1651 | 4568 | 8 | PVC | 247 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 1650 | 1651 | 4571 | 8 | PVC | 195 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 1651 | 2523 | 3356 | 8 | PVC | 203 | 0.2 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2523 | 2521 | 1498 | 8 | AC | 93 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2521 | 2517 | 3462 | 8 | UNKNOWN | 219 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2519 | 2517 | 1539 | 8 | AC | 346 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2517 | 2515 | 3461 | 8 | UNKNOWN | 259 | 0 | | | | | |
| 6/9/2017 | LR6 | Winchester St | 2515 | 2513 | 1499 | 8 | AC | 271 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2513 | 2501 | 1500 | 8 | AC | 331 | 0 | | | | | |
| 6/9/2017 | LR6 | Desfosses Ave | 5996 | 2509 | 7476 | 8 | AC | 256 | 0 | | | | | Note: TO MH originally listed as "0" |
| 6/9/2017 | LR6 | Desfosses Ave | 2509 | 2505 | 1502 | 8 | AC | 338 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2505 | 2501 | 1501 | 8 | AC | 176 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2503 | 2501 | 1494 | 8 | AC | 47 | 0 | | | | | MH 2503 has force main from trailer park tied in. Unable to weir but appears to be a lot of clear flow from that area |
| 6/9/2017 | LR6 | Lafayette Rd | 2501 | 2507 | 1495 | 8 | AC | 324 | 0 | | | | | |
| 6/9/2017 | LR6 | Weatherstone Rd | 2507 | 2499 | 1496 | 8 | AC | 146 | 0 | | 6 | 2499 | | |
| 6/9/2017 | LR6 | Weatherstone Rd | 2499 | 2495 | 1497 | 8 | AC | 291 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2497 | 2495 | 1491 | 8 | AC | 31 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2495 | 2493 | 1492 | 8 | AC | 254 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2493 | 2491 | 1493 | 8 | AC | 289 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2491 | 2487 | 1489 | 8 | AC | 323 | 0 | 1.75 | 2487 | 2 | 2487 | Pipe connection leak and wall leak combined for 1.75 GPM - See Video# 5056 |
| 6/9/2017 | LR6 | Lafayette Rd | 2489 | 2487 | 1488 | 8 | AC | 43 | 4 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2487 | 2485 | 1490 | 8 | AC | 159 | 0 | | | | | |
| 6/9/2017 | LR6 | Coach Rd | 2485 | 2483 | 1999 | 8 | AC | 138 | 0 | | | | | |
| 6/9/2017 | LR6 | Coach Rd | 2483 | 2481 | 1856 | 8 | AC | 133 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2481 | 2477 | 1857 | 8 | AC | 169 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2479 | 2477 | 1858 | 8 | AC | 314 | 5 | | | | | Includes MH 2484. Could not locate MH 2479. |
| 6/9/2017 | LR6 | Lafayette Rd | 2477 | 2475 | 1859 | 8 | AC | 332 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2475 | 2471 | 1860 | 8 | AC | 330 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2473 | 2471 | 1863 | 8 | AC | 25 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2471 | 2469 | 1861 | 8 | AC | 51 | 0 | | | | | |
| 6/9/2017 | LR6 | Lafayette Rd | 2469 | 2411 | 1862 | 8 | AC | 257 | 0 | | | | | |
| 6/9/2017 | LR6 | X-Country or Easement | 2411 | Rye Line Pump Station | 2001 | 0 | UNKNOWN | 24 | 0 | | | | | Note: TO MH originally listed as "0" |



05.16.2017 03:22





05.16.2017 03:22





05.16.2017 03:22



06.02.2017 01:54



06.02.2017 01:42



06.02.2017 01:23



06.02.2017 01:23



06.02.2017 02:27



06.02.2017 02:36



06.02.2017 02:37



06.02.2017 02:36



06.02.2017 01:04



06.02.2017 01:04



06.02.2017 01:03

1
1
10
92
84
76
60





1000
900
800
700
600
500
400
300
200
100
0

06.02.2017 00:44





06.01.2017 05:20



06.01.2017 05:19



05.31.2017 05:20



05.31.2017 05:20



05.31.2017 05:20



05.31.2017 05:07



05.31.2017 05:02





05.31.2017 03:06



05.31.2017 03:39



05.16.2017 03:02



05.16.2017 04:15





05.16.2017 04:15



05.16.2017 04:15



05.17.2017 01:37



05.17.2017 02:09



05.17.2017 03:17



06.02.2017 04:22



06.02.2017 04:22



06.02.2017 04:22



06.02.2017 04:23



06.02.2017 04:21



06.01.2017 03:27



06.02.2017 03:17



06.02.2017 03:34



06.02.2017 03:35



06.02.2017 03:34



05.25.2017 03:05



05.25.2017 02:36



05.25.2017 02:23







05.25.2017 02:40



05.25.2017 02:15



05.25.2017 02:15





06.01.2017 00:30



06.01.2017 00:33



06.01.2017 00:34



06.01.2017 00:30





06.01.2017 00:40







05.19.2017 00:43



06:02:2017 02:07





06.02.2017 02:07





06.02.2017 02:07





05.31.2017 01:30





05.31.2017 01:31



05.31.2017 01:30





05.17.2017 03:10



05.17.2017 03:10



05.17.2017 03:01



06.01.2017 04:44



06.01.2017 04:44







05.17.2017 02:36



05.17.2017 02:36



05.31.2017 04:39



05.31.2017 04:38

1



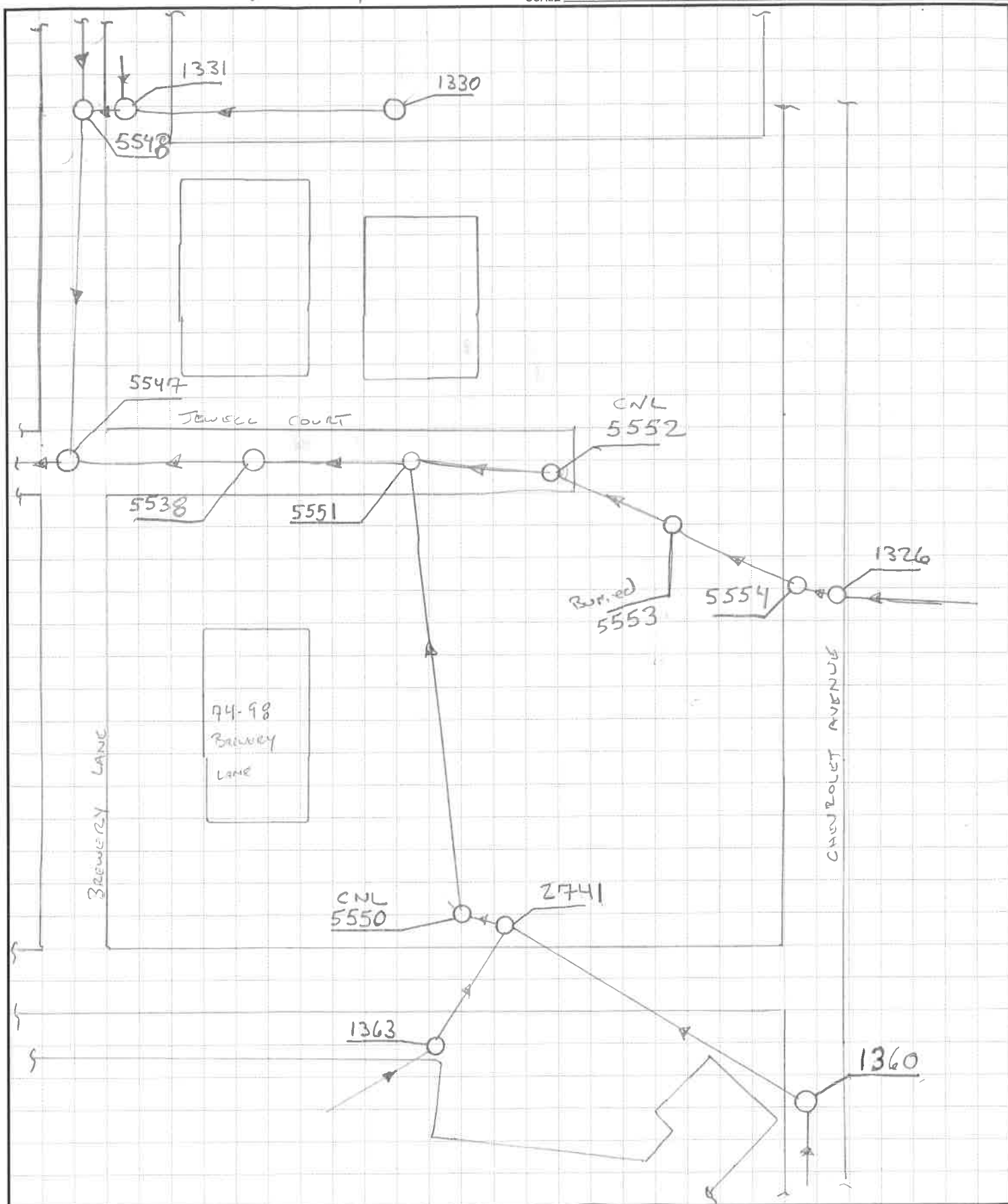
84 Daniel Plummer Road
Goffstown, NH 03045
(603) 656-9799

JOB PORTSMOUTH, NHSHEET NO. 10 OF _____CALCULATED BY RN DATE _____

CHECKED BY _____ DATE _____

SCALE NOT TO SCALE

HS11



2



84 Daniel Plummer Road
Goffstown, NH 03045
(603) 656-9799

HS 11

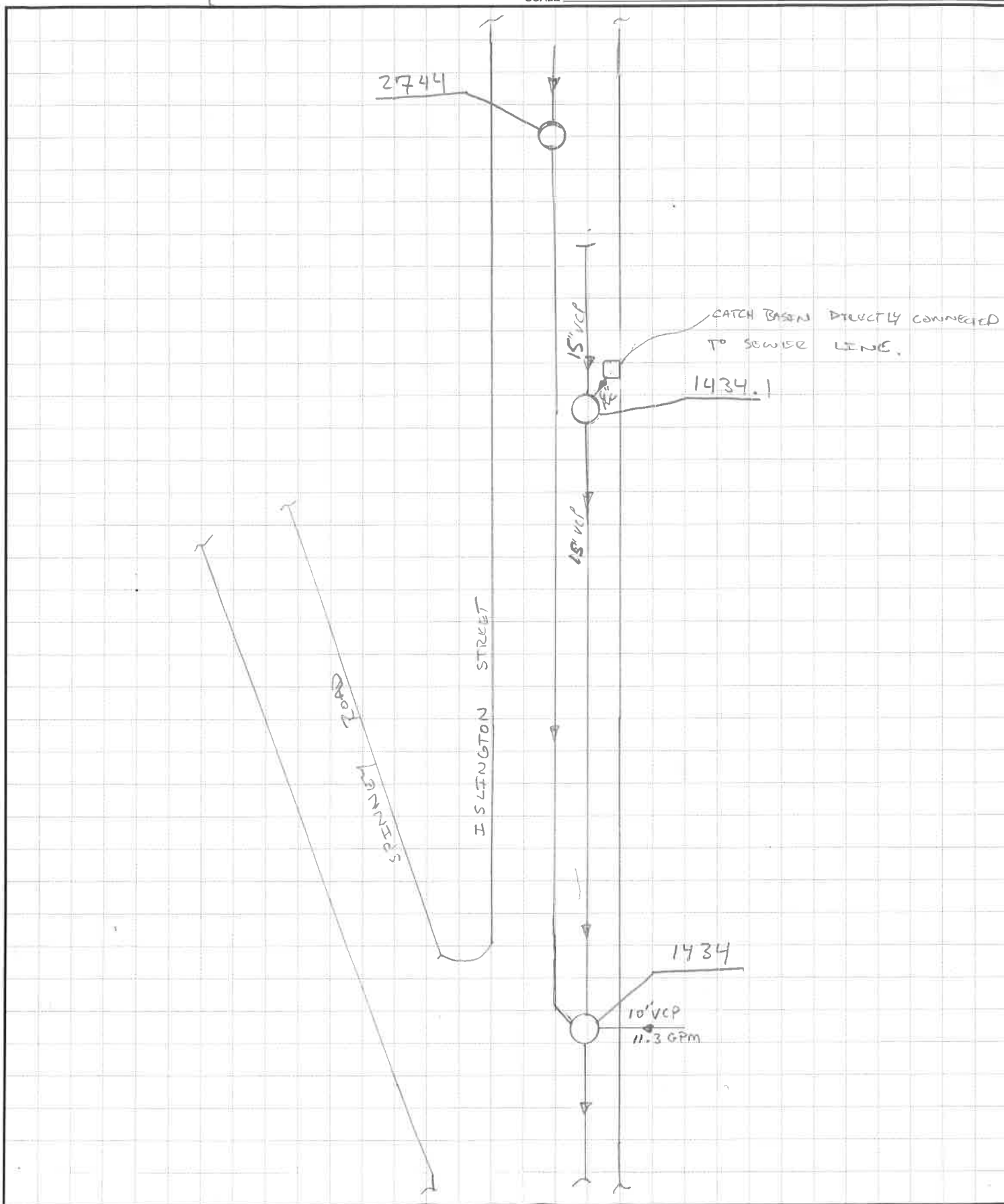
JOB PORTSMOUTH, NH FLOW ISOLATION

SHEET NO. 10 OF

CALCULATED BY RV DATE

CHECKED BY RV DATE

SCALE NOT TO SCALE



SKETCH#3 REVISED



84 Daniel Plummer Road
Goffstown, NH 03045
(603) 656-9799

AREA H S11 Sheet 8/10

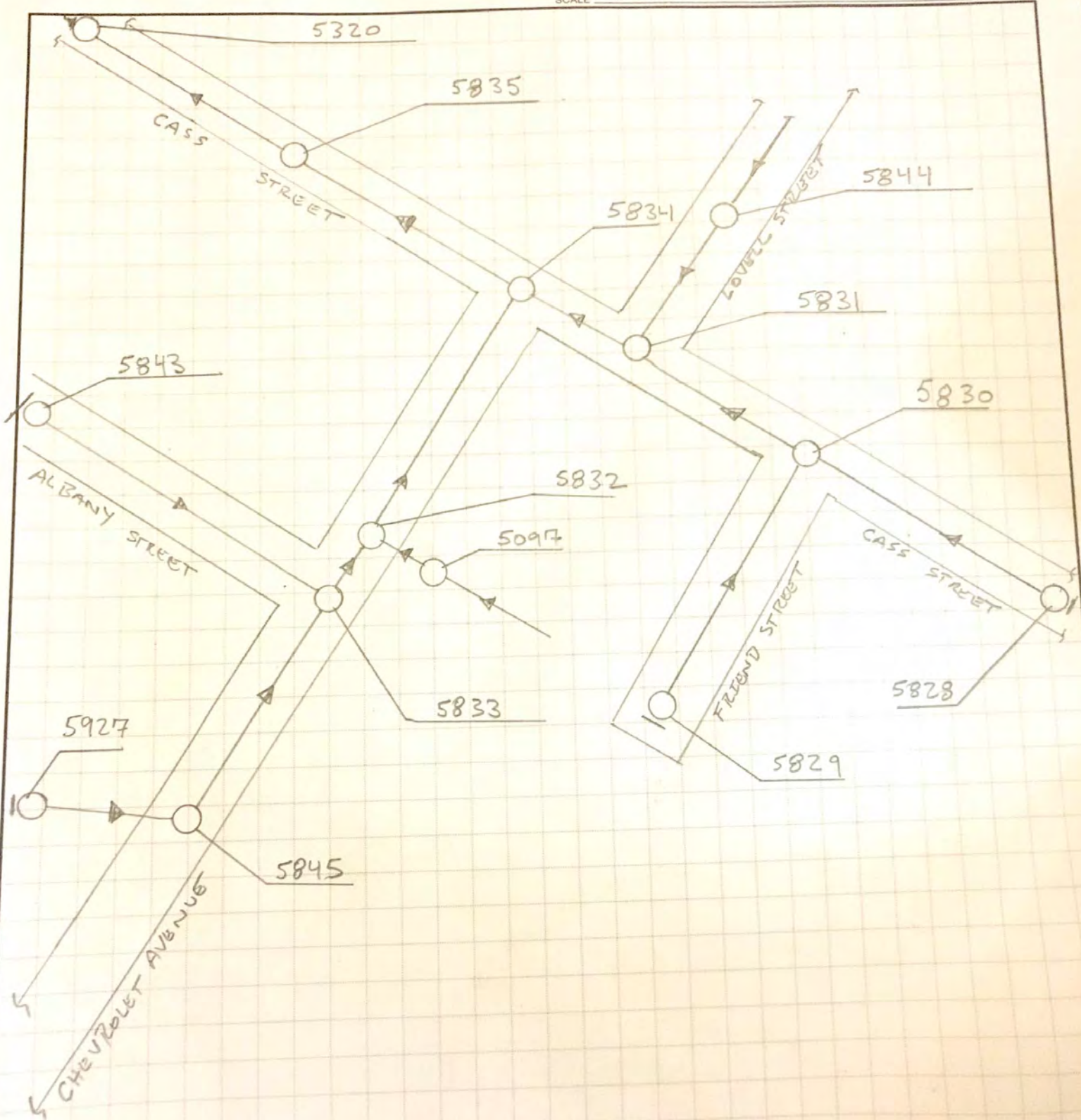
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SHEET NO. _____ OF _____

CALCULATED BY _____ DATE _____

CHECKED BY RV DATE _____

SCALE NOT TO SCALE



#4



84 Daniel Plummer Road
Goffstown, NH 03045
(603) 656-9799

HS 11

JOB Pocumtury, NH

SHEET NO. 8

OF

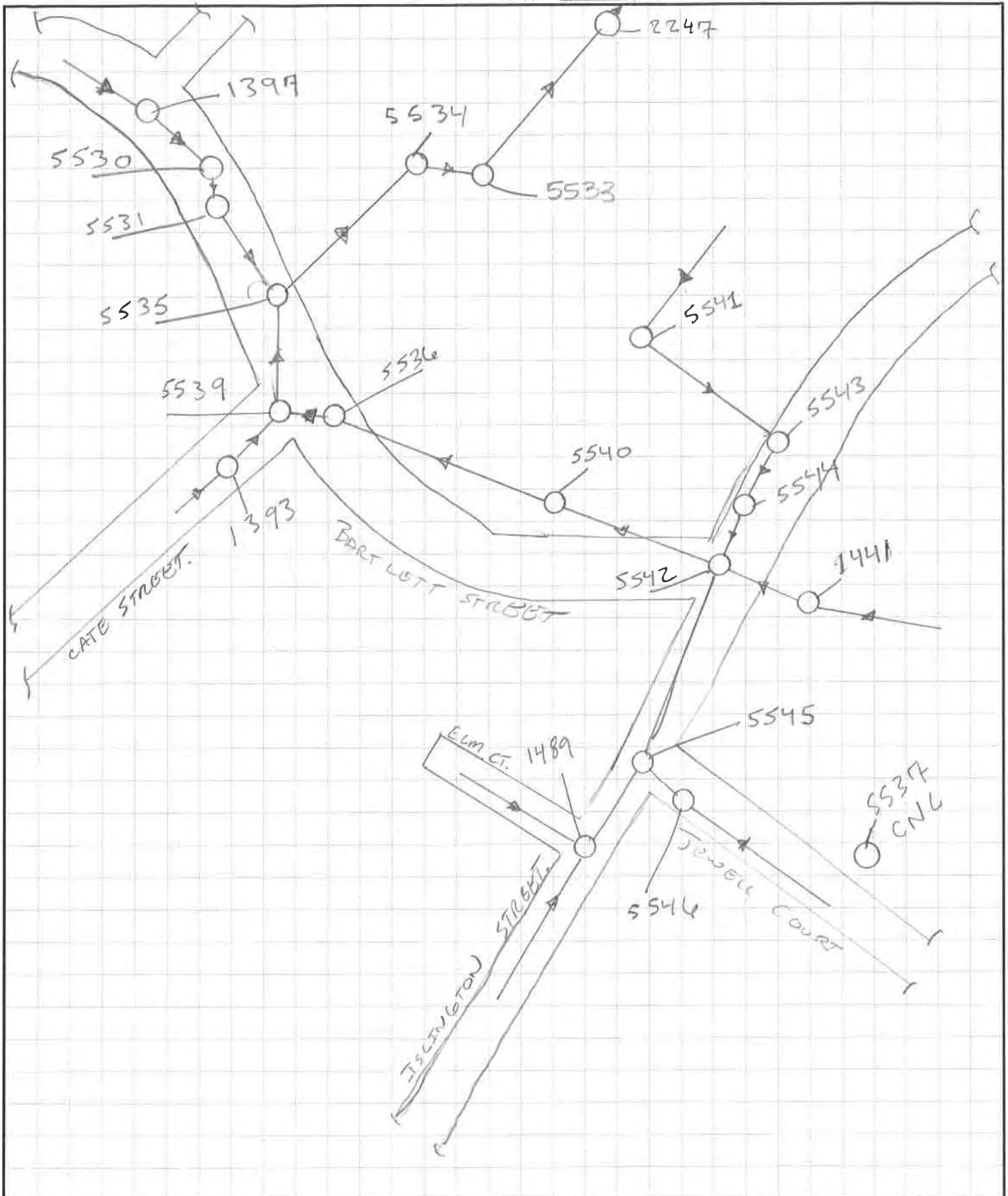
CALCULATED BY RV

DATE

CHECKED BY

DATE

SCALE NOT TO SCALE





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Goffstown, NH 03045
(603) 656-9799

#5

AREA LR 5 sheet 15

JOB PORTSMOUTH NH
SHEET NO. _____ OF _____
CALCULATED BY _____ DATE _____
CHECKED BY _____ DATE _____
SCALE Not to Scale

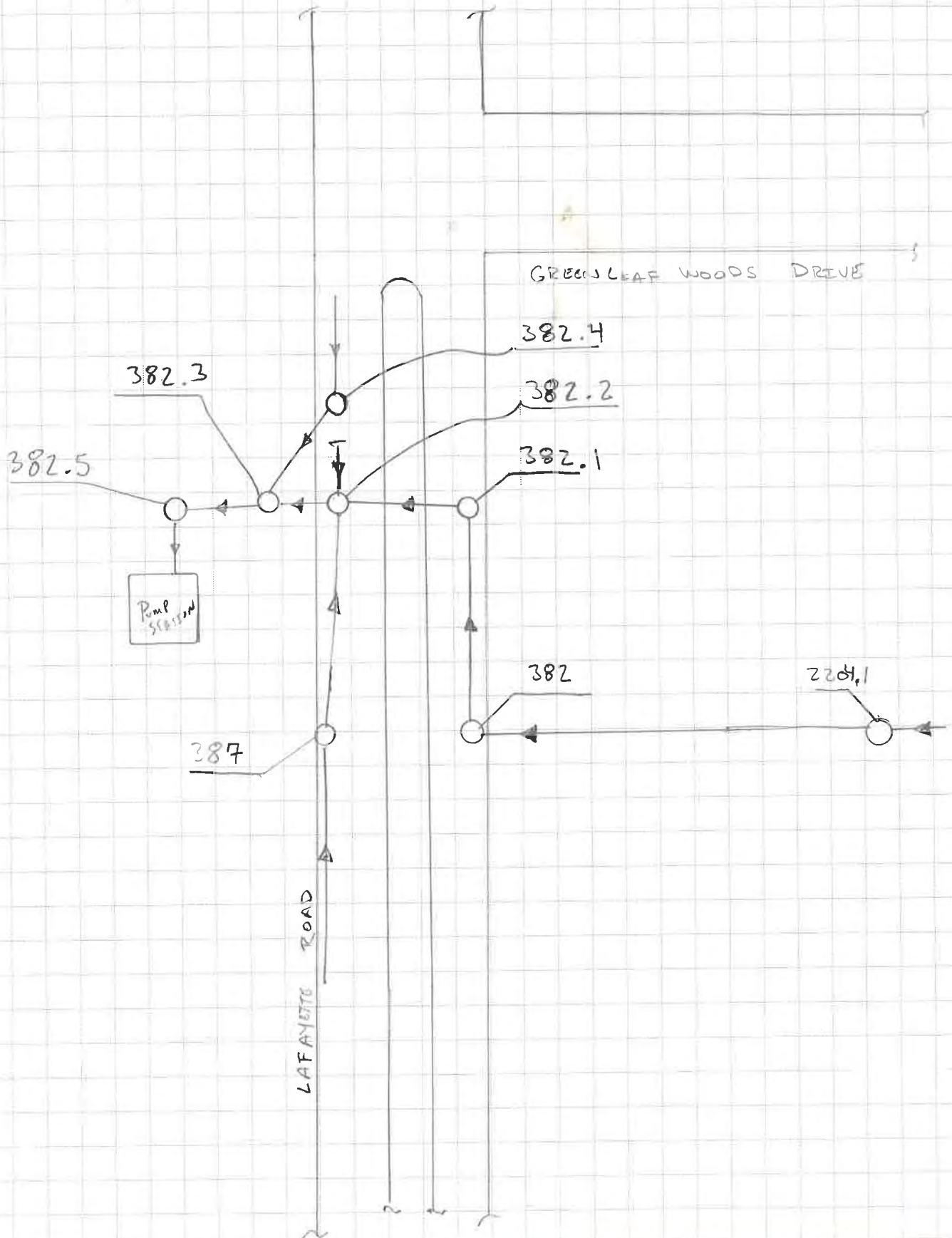
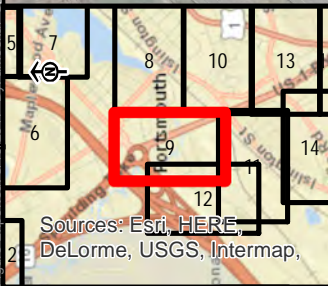
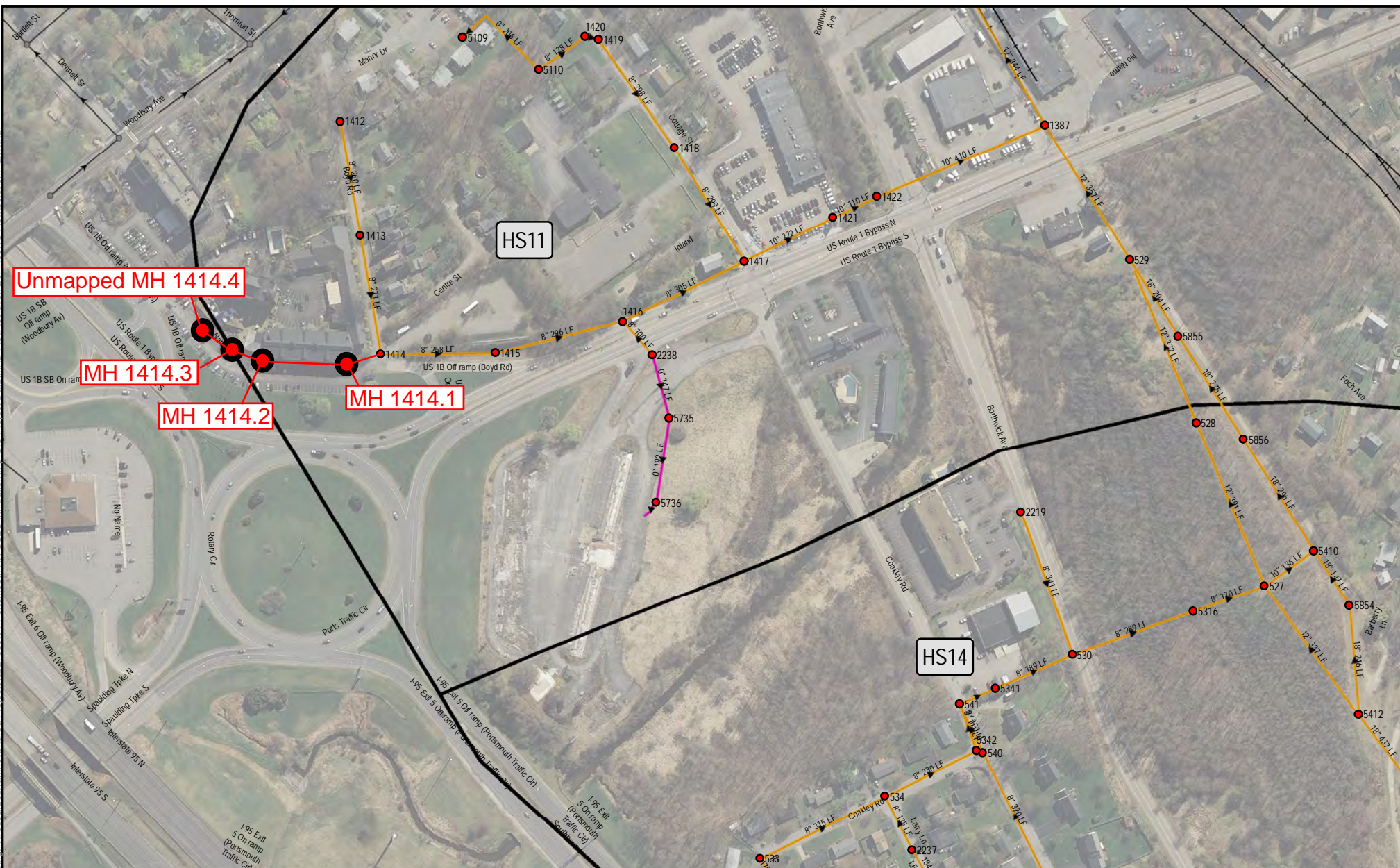



Figure Exported: 5/15/2017 By: amoskai Using: \\woodardcurran.net\shared\Projects\02-227950-01 Portsmouth NH SSFS Infiltration.wpd\GIS\Project Data\MXD\Flow Isolation\2017.05.15 FlowIsolationPlan.mxd




- Legend**
- Flow Isolation Manholes
 - Flow Isolation Pipe (City)
 - Flow Isolation Pipe (Private)
 - SewerManhole
 - Sewer Pipe
 - Sewer Basin
 - Pump Station
 - Railroad Tracks

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| | |
|----------------|---------------------------------------|
| DRAWN BY: AM | SCALE: 1" = 300' |
| DATE: MAY 2017 | DOC: 2017.05.15 FlowIsolationPlan.MXD |
| | SOURCE: ESRI, GRANIT |
| | PROJECT #: 227950.01 |

City of Portsmouth, NH
Flow Isolation
Figure 9 of 28

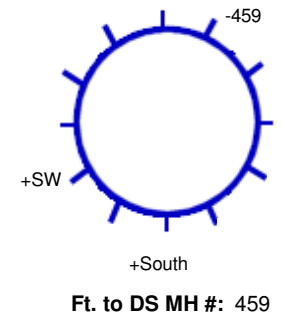
 0 100 200 400
Feet

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 458 |
| Street: | Colonial Drive at Worthen Road | | | Sub-System: | B1 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken brick, missing mortar |
| STEPS | BRICK | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | South | 06' 08" | 8 | VCP | | 0.10 | 0 | | | 0 |
| IN FROM | SW | 06' 08" | 8 | VCP | | 0.20 | 0 | | | 0 |
| OUT TO | 459 | 06' 10" | 8 | VCP | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

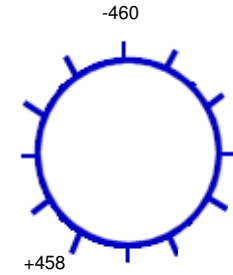
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 459 |
| Street: | 307 Colonial Drive | | | Sub-System: | B1 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.3 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 0.25 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 460

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, broken brick |
| STEPS | BRICK | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 458 | 06' 04" | 8 | VCP | | 0.20 | 0 | | | 0 |
| OUT TO | 460 | 06' 05" | 8 | VCP | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

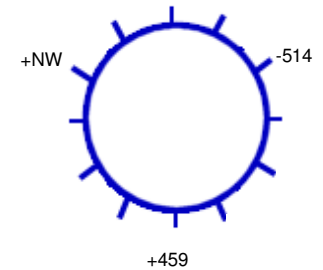
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 460 |
| Street: | 6 Victory Road | | | Sub-System: | B1 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 514

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 4 0.25 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken brick, missing mortar |
| STEPS | BRICK | 1 | | | |
| WALLS | BRICK | 2 | | | Light roots |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 08' 00" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| IN FROM | 459 | 07' 03" | 8 | VCP | | 0.20 | 0 | | | 0 | Inside drop |
| OUT TO | 514 | 08' 01" | 8 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 514 |
| Street: | Victory Road | | | Sub-System: | B1 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input checked="" type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

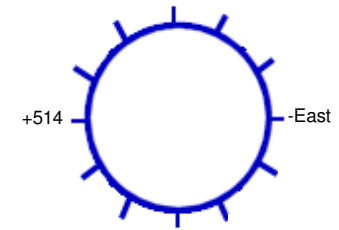
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5271 |
| Street: | Victory Road Easement | | | Sub-System: | B1 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: East

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.75 In. | 6 | X 6 X 0.3 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 514 | 08' 00" | 12 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | East | 08' 01" | 12 | PVC | | 0.50 | 0 | | | 0 | |

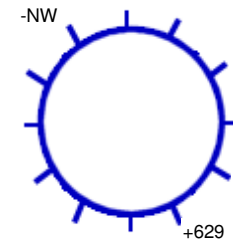
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 628 |
| Street: | Oriental Gardens R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 4 In. | 4 | X 4 X 0.3 = 4.8 (SQFT) | Holes In Cover | 2 0.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NW

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 629 | 11' 10" | 15 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | NW | 11' 11" | 15 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

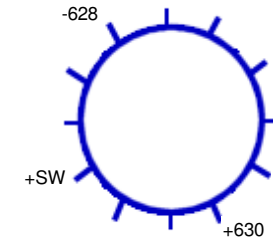
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 629 |
| Street: | Oriental Gardens R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 3 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 628

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | 1 | | Heavy mineral deposits, steady leak |
| FLOOR | PARGED | 2 | | | Heavy mineral deposits |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | SW | 06' 10" | 10 | UNK | | 1.00 | 0 | | | 0 | Outside drop |
| IN FROM | 630 | 10' 11" | 15 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 628 | 11' 00" | 15 | ACP | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 630 |
| Street: | Oriental Gardens R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments: Overgrown easement

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

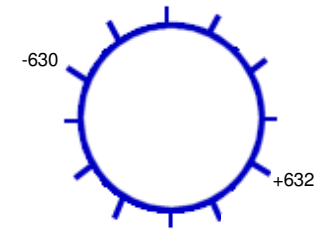
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 631 |
| Street: | Oriental Gardens R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 6 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 630

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 632 | 12' 08" | 12 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 630 | 12' 09" | 12 | ACP | | 3.00 | 0 | | | 0 | |

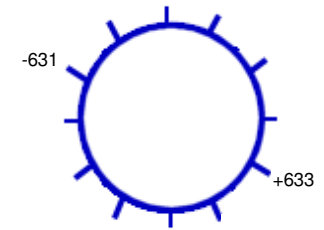
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 632 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 7 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 631

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Mineral deposits |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 633 | 12' 06" | 12 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 631 | 12' 07" | 12 | ACP | | 3.00 | 0 | | | 0 | |

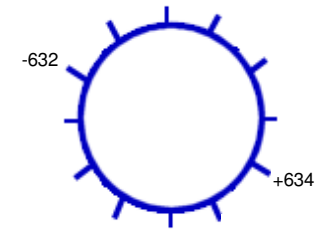
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 633 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 632

General Comments: In wetland

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 634 | 12' 11" | 12 | ACP | | 4.00 | 0.30 | | | 0 |
| OUT TO | 632 | 13' 00" | 12 | ACP | | 4.00 | 0.30 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

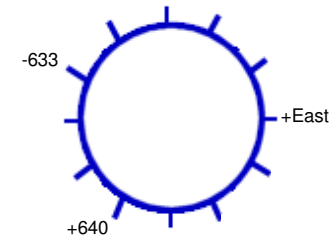
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 634 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 14 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 632

General Comments: In wetland

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | East | 11' 09" | 12 | ACP | | 4.00 | 0 | | | 0 | |
| IN FROM | 640 | 11' 09" | 10 | ACP | | 2.00 | 2.00 | | | 0 | |
| OUT TO | 633 | 12' 00" | 15 | ACP | | 6.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 637 |
| Street: | 170 Commerce Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

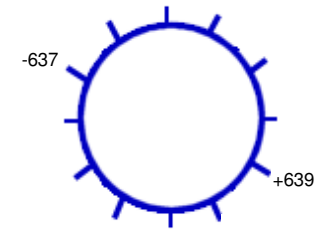
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 638 |
| Street: | 210 Commerce Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 1 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 637

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 639 | 16' 01" | 12 | VCP | | 2.00 | 0 | | | 0 |
| OUT TO | 637 | 16' 02" | 12 | VCP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

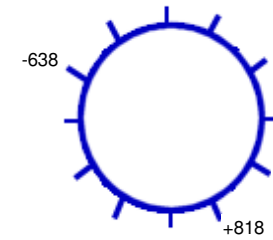
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 639 |
| Street: | Portsmouth Boulevard Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 4 X 0.3 = 4.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 638

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 818 | 10' 04" | 15 | VCP | | 3.00 | 0 | | | 0 | |
| OUT TO | 638 | 10' 05" | 15 | VCP | | 3.00 | 0 | | | 0 | |

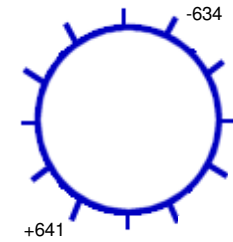
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 640 |
| Street: | Commerce Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 3 In. | 20 | X 10 X 0.3 = 60.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NE

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 641 | 11' 01" | 12 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 634 | 11' 03" | 12 | VCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 641 |
| Street: | | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

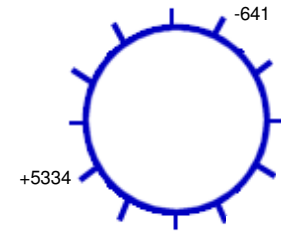
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 642 |
| Street: | 1465 Woodbury Avenue | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 641

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 0 X 0 X 0.9 = 0.0 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Missing bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | 0.05 | | Water marks from leaking joints |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5334 | 10' 07" | 12 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 641 | 10' 08" | 12 | VCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



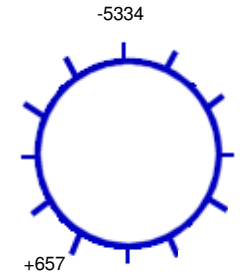
Municipality: Portsmouth, NH
 Street: 1465 Woodbury Avenue
 Inspection Date: 6/26/2017 Inspector: MS/JP Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 643
 Sub-System: GR1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 6 X 2 X 0.3 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 5334

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | Offset |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 657 | 13' 02" | 12 | VCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 5334 | 13' 03" | 12 | VCP | | 1.00 | 0 | | | 0 | |

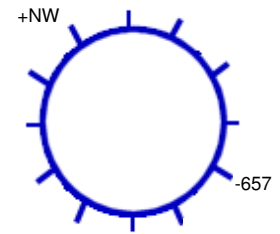
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 656 |
| Street: | 1550 Woodbury Avenue | | | Sub-System: | GR1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 657

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 06' 03" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 657 | 06' 04" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

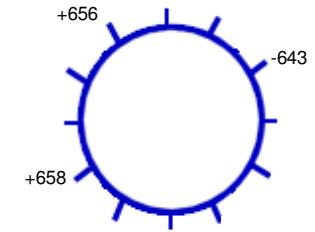
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 657 |
| Street: | Woodbury Avenue at Arthur Brady Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 2 X 0.9 = 7.2 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 643

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar, muddy |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 656 | 05' 01" | 10 | ACP | | 2.00 | 0 | | | 0 |
| IN FROM | 658 | 05' 03" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 643 | 05' 05" | 12 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

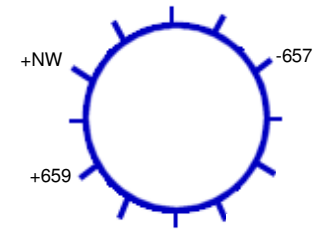
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 658 |
| Street: | 1550 Woodbury Avenue | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 657

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NW | 04' 11" | 8 | PVC | | 0.10 | 0 | | | 0 | Inside drop |
| IN FROM | 659 | 09' 10" | 10 | VCP | | 0.25 | 0 | | | 0 | |
| OUT TO | 657 | 10' 00" | 10 | VCP | | 0.25 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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|------------------|----------------|------------|-------|--------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 659 |
| Street: | | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | |
|---|----------------------------------|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | |
| | Drainage Area 1: | | QTY SIZE (In) |
| | X X 0.9 = (SQFT) | Holes In Cover | -- -- |
| | Drainage Area 2: (if applicable) | | |
| | X X 0.3 = (SQFT) | | |

Ft. to DS MH #:

| | |
|-------------------|--|
| General Comments: | |
|-------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

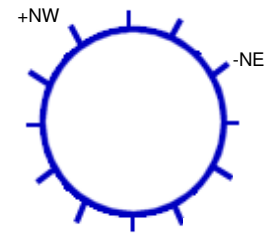
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 812 |
| Street: | Granite Street R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 4 X 2 X 0.3 = 2.4 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



+5729
Ft. to DS MH #: NE

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | STEEL | 1 | | | 5 Steps |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

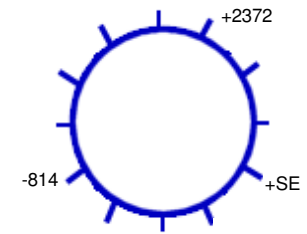
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NW | 08' 06" | 8 | VCP | | 0 | 0 | | | 0 | Abandoned |
| IN FROM | 5729 | 07' 08" | 8 | VCP | | 0 | 0 | | | 0 | Abandoned |
| OUT TO | NE | 08' 09" | 8 | VCP | | 0 | 0 | | | 0 | Abandoned |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 813 |
| Street: | Portsmouth Boulevard near Market Street | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 814

| | | | | | |
|---|--|----------------------------------|--|--------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: | AT In. | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover 2 1 | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BRICK | 3 | | | Wet walls |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SE | 10' 10" | 10 | VCP | | 0.20 | 0 | | | 0 |
| IN FROM | 2372 | 10' 10" | 12 | VCP | | 0.20 | 0 | | | 0 |
| OUT TO | 814 | 10' 11" | 12 | VCP | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 814 |
| Street: | | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

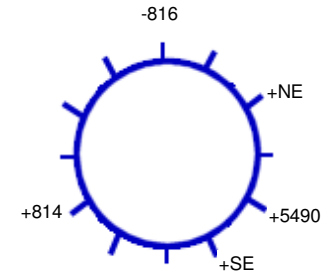
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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|-------------------------|--|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 815 |
| Street: | Portsmouth Boulevard near Shearwater Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 816

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | Holes In Cover | |
|------------------------------------|-------------------------------|----------------------------------|------------|----------------|-----------|
| Buried: <input type="checkbox"/> | CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | 2 | 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 07' 10" | 8 | VCP | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | SE | 07' 09" | 8 | VCP | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 814 | 13' 10" | 12 | VCP | | 1.00 | 0 | | | 0 | Standing flow |
| IN FROM | 5490 | 12' 03" | 12 | PVC | | 0.50 | 0 | | | 0 | Inside drop |
| OUT TO | 816 | 14' 02" | 15 | PVC | | 1.00 | 0 | | | 0 | |

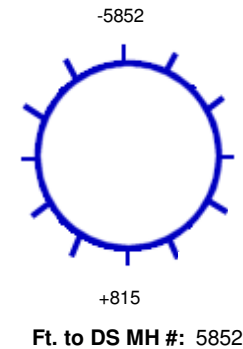
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 816 |
| Street: | Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 3 | 0.5 | | Mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|----------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 815 | 08' 00" | 12 | LINED | | 0.75 | 0 | | | 0 |
| OUT TO | 5852 | 08' 02" | 12 | VCP | | 0.75 | 0 | | | 0 |
| | | | | | | | | | | Pipe connection leak |

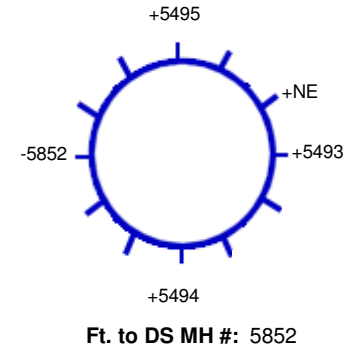
Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 817 |
| Street: | Sanderling Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|-------------------------------|---|--|--------------------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 18 in. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover 2 0.5 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NE | 04' 03" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM | 5493 | 06' 10" | 6 | PVC | | 0.20 | 0 | | | 0 |
| IN FROM | 5494 | 06' 09" | 6 | PVC | | 0.05 | 0 | | | 0 |
| IN FROM | 5495 | 06' 09" | 6 | PVC | | 0.20 | 0 | | | 0 |
| OUT TO | 5852 | 07' 02" | 8 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

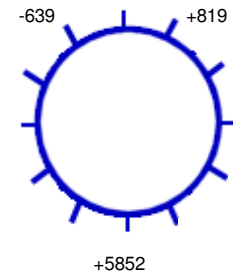
Pipe connection leak 0.5 GPM

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 818 |
| Street: | Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 639

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.75 In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 10 X 5 X 0.3 = 15.0 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Light roots, missing mortar |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BLOCK | 4 | 5 | | Moderate roots, wall leaks, mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 819 | 10' 00" | 8 | VCP | | 1.00 | 0 | | | 0 | Slow flow |
| IN FROM | 5852 | 10' 00" | 12 | VCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 639 | 10' 01" | 15 | VCP | | 1.00 | 0 | | | 0 | |

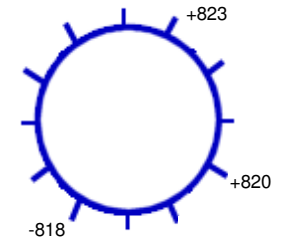
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 819 |
| Street: | Portsmouth Boulevard at Commerce Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 818

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PARGED | 1 | | | |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 820 | 05' 06" | 8 | VCP | | 0.25 | 0 | | | 0 |
| IN FROM | 823 | 05' 06" | 8 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 818 | 05' 07" | 8 | VCP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

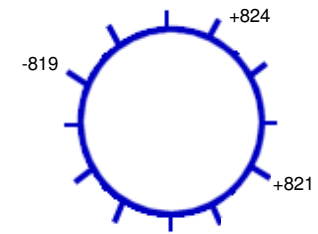
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 820 |
| Street: | Portsmouth Boulevard at Osprey Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|---|-----------------------|--------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 3 | X | 3 | X 0.9 = 8.1 (SQFT) |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | Holes In Cover | |
| | | X | X | 0.3 | = (SQFT) |
| | | | | QTY | SIZE (In) |
| | | | | 2 | 1 |



Ft. to DS MH #: 819

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 2 | | | Light roots |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



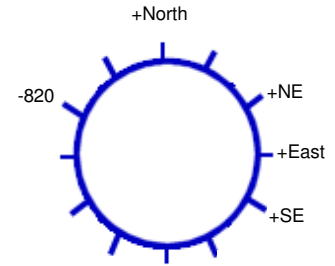
Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 821 | 05' 00" | 8 | VCP | | 0.30 | 1.00 | | | 0 | |
| IN FROM | 824 | 05' 01" | 6 | VCP | | 0 | 0 | | | 0 | |
| OUT TO | 819 | 05' 02" | 8 | VCP | | 0.30 | 1.00 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Ft. to DS MH #: 820

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 821 |
| Street: | 5 Osprey Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 1 In. | Drainage Area 1: 10 X 3 X 0.3 = 9.0 (SQFT) | | Holes In Cover QTY 2 SIZE (In) 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | East | 05' 01" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM | NE | 08' 07" | 8 | VCP | | 0.25 | 0 | | | 0 |
| IN FROM | North | 06' 05" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM | SE | 07' 06" | 4 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 820 | 09' 02" | 8 | VCP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

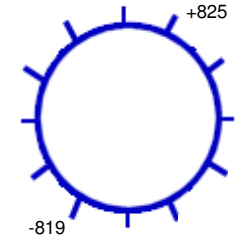
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 823 |
| Street: | 100 Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.25 In. | Drainage Area 1: 3 X 3 X 0.3 = 2.7 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 819

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------------|
| FRAME | CAST | 2 | | | Cracked, missing pieces |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 825 | 06' 00" | 8 | VCP | | 0 | 2.00 | | | 0 | |
| OUT TO | 819 | 06' 10" | 8 | VCP | | 0 | 1.00 | | | 0 | |

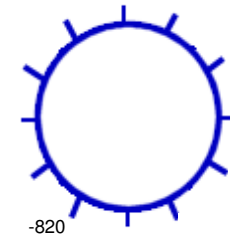
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 824 |
| Street: | 100 Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 3 In. | Drainage Area 1: 4 X 4 X 0.3 = 4.8 (SQFT) | | Holes In Cover QTY 2 SIZE (In) 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 820

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing brick, missing mortar |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BRICK | 1 | | | |
| FLOOR | CNI | 0 | | | Debris |
| INVERT | CNI | 0 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| OUT TO | 820 | | | | | 0 | 0 | | | 0 | Could not inspect due to heavy debris |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 825 |
| Street: | Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

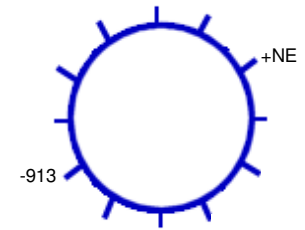
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 912 |
| Street: | 60 Blue Heron Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|--------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 12 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 0.75 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 913

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NE | 06' 08" | 6 | PVC | | 0.05 | 0 | | | 0 |
| OUT TO | 913 | 06' 09" | 6 | PVC | | 0.05 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

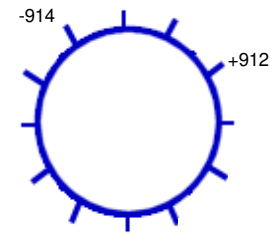
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 913 |
| Street: | 28 Blue Heron Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 914

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 6 In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Offset 4" |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

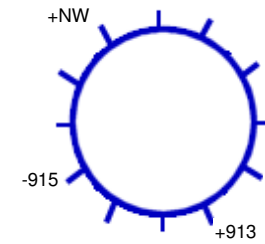
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 912 | 06' 03" | 6 | PVC | | 0.75 | 0 | | | 0 | |
| OUT TO | 914 | 06' 04" | 6 | PVC | | 0.75 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 914 |
| Street: | 27 Blue Heron Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 915

| | | | | | |
|---|-------------------------------|--|--|----------------|--------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 0.75 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 11' 06" | 8 | VCP | | 0.25 | 0 | | | 0 | |
| IN FROM | 913 | 11' 02" | 8 | VCP | 0.25 | 0 | 0 | | | 0 | Inside drop |
| OUT TO | 915 | 11' 07" | 8 | VCP | | 0.25 | 0 | | | 0 | |

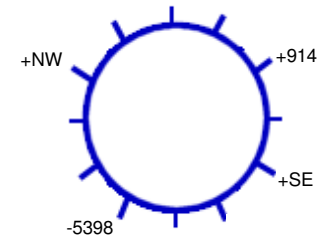
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Blue Heron Drive near Sanderling Way
 Inspection Date: 6/23/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 915
 Sub-System: GR1



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.3 = 1.2 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 0.75

Ft. to DS MH #: 5398

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

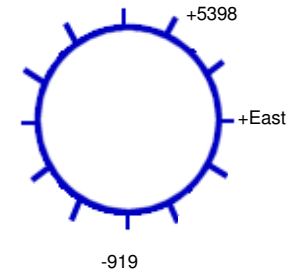
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 08' 09" | 6 | VCP | | 0.75 | 0.25 | | | 0 | Standing flow |
| IN FROM | SE | 08' 09" | 6 | VCP | | 0.75 | 0.25 | | | 0 | Standing flow |
| IN FROM | 914 | 08' 08" | 8 | VCP | | 1.50 | 0.50 | | | 0 | |
| OUT TO | 5398 | 08' 10" | 8 | VCP | | 1.50 | 0.50 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 916 |
| Street: | Blue Heron Drive Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 919

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 4 In. | 15 | X 5 X 0.3 = 22.5 (SQFT) | Holes In Cover | 2 0.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 2 | | | Light roots |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | East | 07' 06" | 6 | VCP | | 1.00 | 0 | | | 0 | Standing flow |
| IN FROM | 5398 | 07' 06" | 8 | VCP | | 0.75 | 0 | | | 0 | |
| OUT TO | 919 | 07' 07" | 8 | VCP | | 0.75 | 0 | | | 0 | |

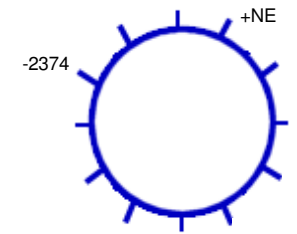
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 43 Shearwater Drive Behind home in grass
Inspection Date: 6/23/2017 **Inspector:** RV/JC **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 917
Sub-System: GR1



Ft. to DS MH #: 2374

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 0.75 In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1

General Comments: Line possibly abandoned

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 2 | | | Offset 6" |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|------------------------------|
| IN FROM | NE | 06' 07" | 8 | VCP | | 8.00 | 0 | | | 0 | Standing water, outside drop |
| OUT TO | 2374 | 09' 03" | 8 | VCP | | 8.00 | 0 | | | 0 | Standing water, outside drop |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 918 |
| Street: | Shearwater Drive R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

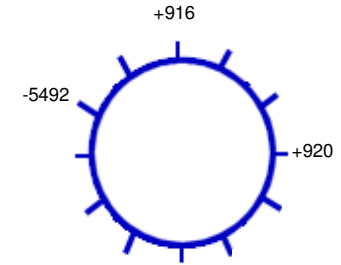
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 919 |
| Street: | Shearwater Drive at Blue Heron Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5492

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 916 | 06' 10" | 8 | VCP | | 2.00 | 1.00 | | | 0 | Slow flow |
| IN FROM | 920 | 06' 10" | 8 | VCP | | 2.00 | 1.00 | | | 0 | Slow flow |
| OUT TO | 5492 | 06' 11" | 10 | PVC | | 1.00 | 0 | | | 0 | |

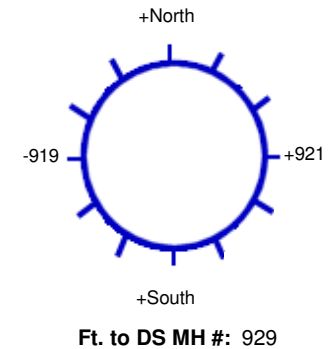
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 3 Shearwater Drive
 Inspection Date: 6/23/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 920
 Sub-System: GR1



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 08' 08" | 6 | VCP | | 0.50 | 0 | | | 0 | |
| IN FROM | South | 08' 07" | 6 | VCP | | 0.50 | 0 | | | 0 | |
| IN FROM | 921 | 08' 08" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 919 | 08' 09" | 8 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



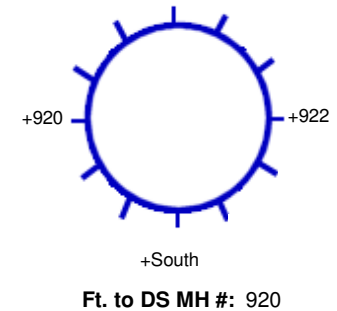
Municipality: Portsmouth, NH
 Street: 12-43 Staysail Way
 Inspection Date: 6/23/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 921
 Sub-System: GR1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 2 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 5 X 2 X 0.3 = 3.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 2 | | | Offset 1" |
| CORBEL | BRICK | 2 | | | Missing and broken bricks, missing mortar |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 08' 01" | 6 | VCP | | 0.10 | 0 | | | 0 | |
| IN FROM | 922 | 05' 03" | 8 | VCP | | 0.20 | 0 | | | 0 | Outside drop |
| OUI TO | 920 | 08' 02" | 8 | VCP | | 0.25 | 0 | | | 0 | |

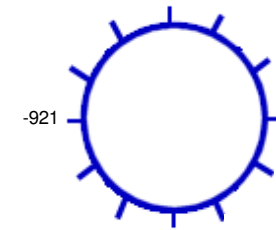
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 922 |
| Street: | 10 Staysail Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



Ft. to DS MH #: 921

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

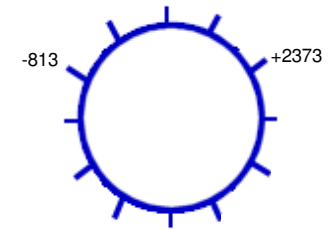
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 06' 09" | 6 | VCP | | 0.05 | 0 | | | 0 | |
| OUT TO | 921 | 06' 10" | 8 | VCP | | 0.05 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2372 |
| Street: | 43 Shearwater Drive Behind home | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 813

| | | | | | |
|---|--|---|--|------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: BELOW 0.6 In. | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover 2 | 1 |
| Cracked pavement surrounding frame, blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments: Abandoned line

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Offset 1" |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2373 | 10' 03" | 10 | PVC | | 1.00 | 0 | | | 0 | Standing flow |
| OUT TO | 813 | 10' 04" | 10 | PVC | | 0 | 0 | | | 0 | Blocked |

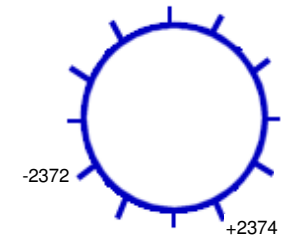
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2373 |
| Street: | 43 Shearwater Drive Behind home | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: ABOVE | In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2372

General Comments: Abandoned manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Offset 2" |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2374 | 10' 03" | UNK | UNK | | 0 | 0 | | | 0 | Blocked |
| OUT TO | 2372 | 10' 04" | 10 | UNK | | 0 | 2.00 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2374 |
| Street: | 43 Shearwater Drive Behind home | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | | | | |
|--|---|---|-----|---|-----------------------|------------|------------------|--------|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | Holes In Cover | QTY | SIZE (In) | |
| | Drainage Area 1: | | | | | | | |
| | X | X | 0.9 | = | | | | (SQFT) |
| | Drainage Area 2: (if applicable) | | | | | | | |
| | X | X | 0.3 | = | (SQFT) | | | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2384 |
| Street: | | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

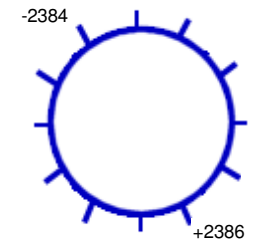
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2385 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | 5 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2384

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 4 | 2 | | Missing mortar, leaking infiltration |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 2 | | | Soft bricks |
| FLOOR | CNI | 0 | | | Flow above bench |
| INVERT | CNI | 0 | | | Flow above bench |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2386 | 07' 05" | 24 | RCP | | 20.00 | CNI | | | 0 | |
| OUT TO | 2384 | 07' 06" | 24 | RCP | | 20.00 | CNI | | | 0 | |

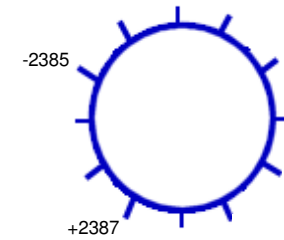
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2386 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/20/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 8 In. | 2 | X 2 X 0.3 = 1.2 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2385

General Comments: In wetland

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|-----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Light roots |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 3 | 0.25 | | Walls weeping |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 2 | | | Rocks in invert |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2387 | 08' 06" | 24 | CIP | | 5.00 | 0 | | | 0 |
| OUT TO | 2385 | 08' 07" | 24 | CIP | | 5.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

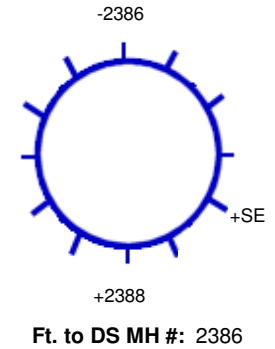
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2387 |
| Street: | 1465 Woodbury Avenue | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.3 = 1.2 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | ALUM | 2 | | | 3 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM SE | | 11' 06" | 10 | ACP | | 1.00 | 0 | | | 0 |
| IN FROM 2388 | | 11' 05" | 12 | ACP | | 2.00 | 0.20 | | | 0 |
| OUT TO 2386 | | 12' 00" | 12 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



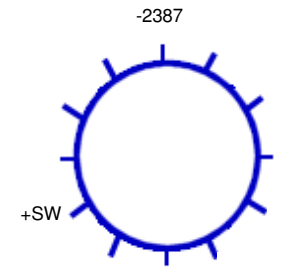
Municipality: Portsmouth, NH
 Street: 1465 Woodbury Avenue
 Inspection Date: 6/26/2017 Inspector: MS/JP Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2388
 Sub-System: GR1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 10 X 0.9 = 36.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 2387

General Comments: Manhole needs to be cleaned

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, broken brick |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | 0.25 | | Mineral deposits |
| FLOOR | BRICK | 2 | | | Mineral deposits |
| INVERT | BRICK | 2 | | | Debris |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

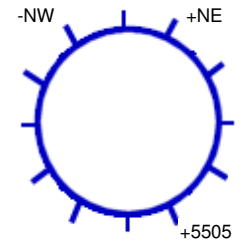
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 12' 08" | 30 | RCP | | 3.00 | 5.00 | | | 0 | Heavy debris |
| OUT TO | 2387 | 12' 10" | 30 | RCP | | 3.00 | 5.00 | | | 0 | Heavy debris |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5307 |
| Street: | Commerce Way R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: NW

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 10' 01" | 10 | PVC | | 3.00 | 0 | | | 0 | |
| IN FROM | 5505 | 14' 07" | 10 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | NW | 14' 09" | 10 | ACP | | 1.50 | 0 | | | 0 | |

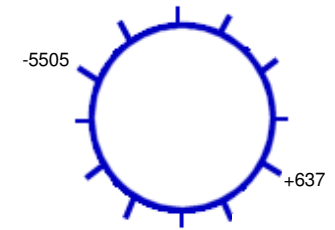
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5332 |
| Street: | 170 Commerce Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|-------------|------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.5 In. | | | | |
| | | Drainage Area 1: | | | |
| | | 6 X 4 X 0.9 = | 21.6 (SQFT) | | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |
| | | Holes In Cover | QTY | SIZE (In) | |
| | | | 2 | 1 | |



Ft. to DS MH #: 5505

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------|
| FRAME | CAST | 3 | | | Cracked, broken pieces |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 637 | 12' 06" | 10 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 5505 | 12' 07" | 10 | VCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

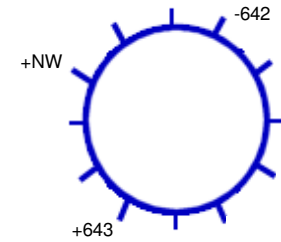
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5334 |
| Street: | 1465 Woodbury Avenue | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 642

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 10 X 0.3 = 60.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments: Heavy debris backing up line

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Wet walls |
| FLOOR | BRICK | 4 | | | Missing bricks |
| INVERT | BRICK | 2 | | | Missing bricks |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|-----------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NW | 03' 06" | 8 | PVC | | 0.20 | 0 | | | 0 | Service, outside drop |
| IN FROM | 643 | 11' 11" | 12 | VCP | | 1.00 | 2.00 | | | 0 | |
| OUT TO | 642 | 12' 00" | 12 | VCP | | 1.00 | 2.00 | | | 0 | |

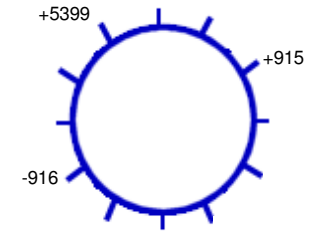
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5398 |
| Street: | Blue Heron Drive at Sanderling Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 916

| | | | | | |
|--|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 X 0 X 0.9 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED/PVC | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 915 | 05' 08" | 8 | PVC | | 1.00 | 0 | | | 0 |
| IN FROM | 5399 | 05' 02" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 916 | 05' 09" | 8 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

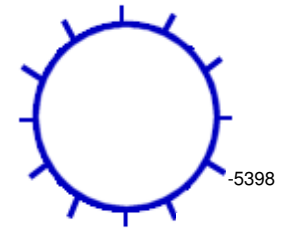
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5399 |
| Street: | 5 Sanderling Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5398

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 5398 | 07' 06" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

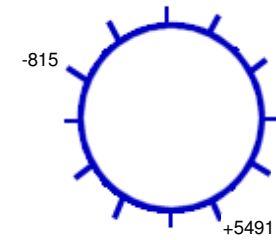
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5490 |
| Street: | Shearwater Drive near Portsmouth Boulevard | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 815

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5491 | 06' 10" | 10 | PVC | | 0.50 | 0 | | | 0 | Inside drop |
| OUT TO | 815 | 12' 00" | 12 | PVC | | 0.50 | 0 | | | 0 | |

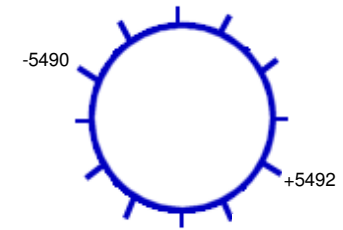
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5491 |
| Street: | 43 Shearwater Drive | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5490

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | Light mud |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | Light mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5492 | 08' 08" | 10 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 5490 | 08' 09" | 10 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

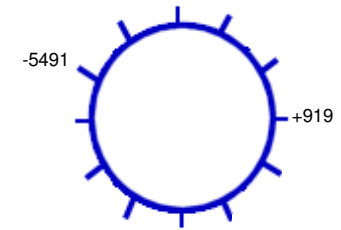
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 25/27 Shearwater Drive
Inspection Date: 6/23/2017 **Inspector:** RV/JC **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 5492
Sub-System: GR1



Ft. to DS MH #: 5491

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.
 Blind flange

COVER INFLOW POTENTIAL
Drainage Area 1:
 0 X 0 X 0.9 = 0.0 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

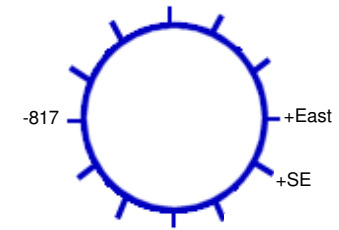
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 919 | 07' 11" | 10 | PVC | | 1.00 | 0 | | | 0 | |
| OUT TO | 5491 | 08' 00" | 10 | PVC | | 1.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5493 |
| Street: | 17 Sanderling Way | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 817

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | East | 05' 08" | 6 | PVC | | 0.10 | 0 | | | 0 |
| IN FROM | SE | 05' 08" | 4 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 817 | 05' 09" | 6 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5494 |
| Street: | | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5495 |
| Street: | Osprey Drive Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Could not open, cover broken

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5505 |
| Street: | Commerce Way Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | Holes In Cover QTY SIZE (In) -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

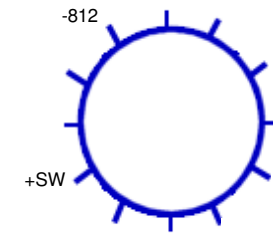
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5729 |
| Street: | Granite Street R.O.W. | | | Sub-System: | GR1 |
| Inspection Date: | 6/26/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 812

General Comments: Line appears to be abandoned, water looks like it has been standing for a while

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | PLASTIC | 1 | | | 5 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | CNI | 0 | | | Surcharged |
| INVERT | CNI | 0 | | | Surcharged |



Surcharge From Invert: Currently: 12 Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | SW | 06' 05" | UNK | UNK | | 0 | 0 | | | 0 | Surcharged |
| OUT TO | 812 | 06' 05" | UNK | UNK | | 0 | 0 | | | 0 | Surcharged |

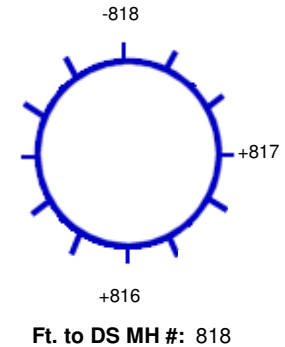
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5852 |
| Street: | Portsmouth Boulevard Easement | | | Sub-System: | GR1 |
| Inspection Date: | 6/23/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1.5 In. | 4 | X 4 X 0.3 = 4.8 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken brick, missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 2 | | | Mineral deposits |
| INVERT | BRICK/PARGED | 2 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 816 | 10' 07" | 10 | VCP | | 3.00 | 0 | | | 0 | |
| IN FROM | 817 | 09' 04" | 8 | PVC | | 0.30 | 0 | | | 0 | |
| OUT TO | 818 | 10' 08" | 10 | VCP | | 3.00 | 0 | | | 0 | |

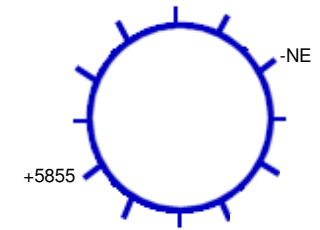
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 529 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 2 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NE

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | CNI | 0 | | | Debris |
| INVERT | CNI | 0 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5855 | 09' 09" | 24 | UNK | | 10.00 | 0 | | | 0 | |
| OUT TO | NE | 09' 10" | 24 | UNK | | 10.00 | 0 | | | 0 | |

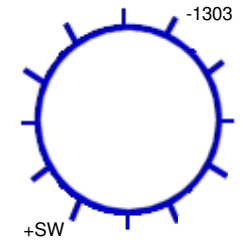
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1302 |
| Street: | 38 Fells Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 1303

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 08' 00" | 8 | PVC | | 0.10 | 0 | | | | |
| OUT TO | 1303 | 08' 00" | 8 | LINED | | 0.10 | 0 | | | 0 | |

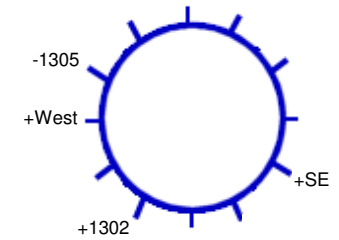
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1303 |
| Street: | Thaxter Road at Fells Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: NW

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Falling bricks |
| STEPS | CAST | 2 | | | 1 step |
| WALLS | BRICK | 3 | 0.2 | | Leak above SW line |
| FLOOR | CNI | 0 | | | Debris |
| INVERT | CNI | 0 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------------|
| IN FROM | SE | 07' 08" | 8 | VCP | | 0.50 | 0 | | | 0 | Inside drop |
| IN FROM | West | 07' 05" | 4 | PVC | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 1302 | 10' 04" | 10 | ACP | | 4.00 | 0 | | | 0 | Clogged from debris |
| OUT TO | 1305 | 10' 06" | 12 | ACP | | 0.75 | 0 | | | 0 | |

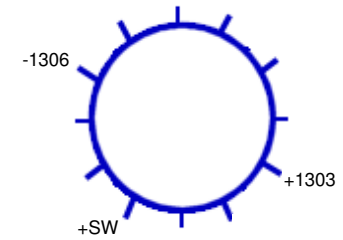
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1305 |
| Street: | 105 Thaxter Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1306

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 03' 10" | 8 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | 1303 | 08' 06" | 12 | PVC | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 1306 | 08' 06" | 14 | PVC | | 0.10 | 0 | | | 0 | |

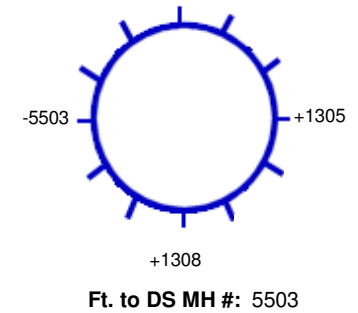
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1306 |
| Street: | 73 Thaxter Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 8 | X 2 X 0.9 = 14.4 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1305 | 06' 04" | 14 | PVC | | 0.25 | 0.10 | | | 0 | |
| IN FROM | 1308 | 06' 03" | 14 | LINED | | 0.25 | 0 | | | 0 | |
| OUT TO | 5503 | 06' 05" | 14 | PVC | | 0.50 | 0.10 | | | 0 | |

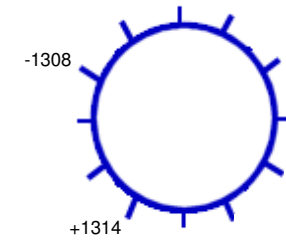
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1307 |
| Street: | 50 Sewall Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.1 In. | 10 | X 4 X 0.9 = 36.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1308

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | STEEL | 4 | | | Rusted |
| WALLS | PRECAST | 3 | | | Weeping infiltration, mineral deposits |
| FLOOR | PARGED | 3 | | | Large hole |
| INVERT | LINED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|----------------------|
| IN FROM | 1314 | 06' 02" | 12 | LINED | | 0.10 | 2.00 | | | 0 | 1" of standing water |
| OUT TO | 1308 | 06' 02" | 12 | LINED | | 0.10 | 2.00 | | | 0 | |

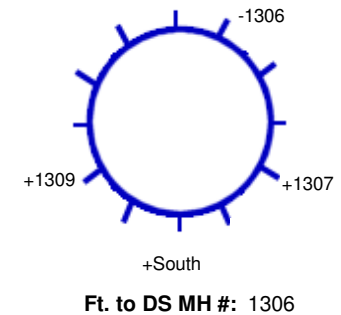
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1308 |
| Street: | 100 Fields Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 06' 03" | 10 | CLAY | | 0.10 | 0 | | | 0 | |
| IN FROM | 1307 | 06' 11" | 12 | LINED | | 0.50 | 0 | | | 0 | |
| IN FROM | 1309 | 06' 10" | 12 | LINED | | 0.50 | 0.10 | | | 0 | |
| OUT TO | 1306 | 06' 11" | 16 | LINED | | 0.50 | 0.10 | | | 0 | |

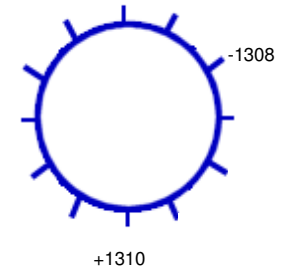
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1309 |
| Street: | 80 Fields Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 2 X 0.9 = 36.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1308

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | PLASTIC | 2 | | | One step missing |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1310 | 07' 08" | 12 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 1308 | 07' 08" | 12 | UNK | | 0.50 | 0.10 | | | 0 | |

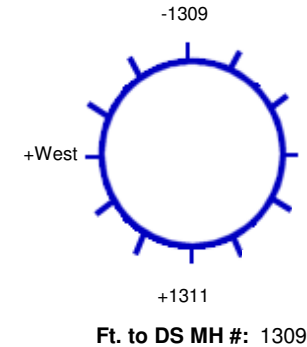
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Fields Road
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1310
 Sub-System: HS11



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1.25

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Missing pieces |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

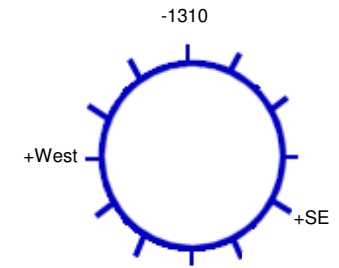
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 06' 08" | 8 | VCP | | 0.10 | 0 | | | 0 | |
| IN FROM | 1311 | 07' 07" | 12 | LINED | | 0.25 | 0.10 | | | 0 | |
| OUT TO | 1309 | 07' 07" | 12 | PVC | | 0.50 | 0.25 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1311 |
| Street: | Fields Road and Sewall Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 3 | 1 | | Running infiltration, mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM SE | | 06' 11" | 8 | LINED | | 0.25 | 0 | | | 0 | |
| IN FROM West | | 07' 00" | 8 | LINED | | 0.25 | 0.10 | | | 0 | |
| OUT TO 1310 | | 07' 01" | 12 | LINED | | 0.50 | 0.10 | | | 0 | |

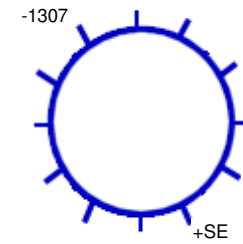
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1314 |
| Street: | 42 Sewall Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame, chipped cover | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1307

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | STEEL | 3 | | | Rusted |
| WALLS | PRECAST | 3 | | | Weeping infiltration |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 3 | | | Inflow at outlet joint |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 07' 10" | 8 | PVC | | 0.10 | 0 | | | 0 | |
| OUT TO | 1307 | 07' 11" | 10 | LINED | | 0.25 | 0 | | | 0 | |

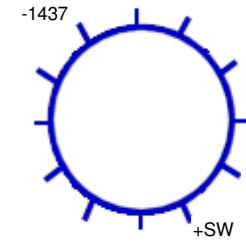
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1325 |
| Street: | 327 Aldrich Road | | | Sub-System: | HS11 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 3 X 0.9 = 10.8 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1437

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SW | 05' 01" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 1437 | 05' 02" | 8 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

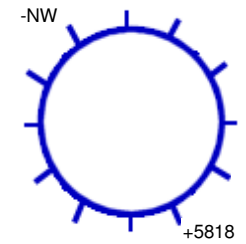
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1326 |
| Street: | Chevrolet Avenue R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

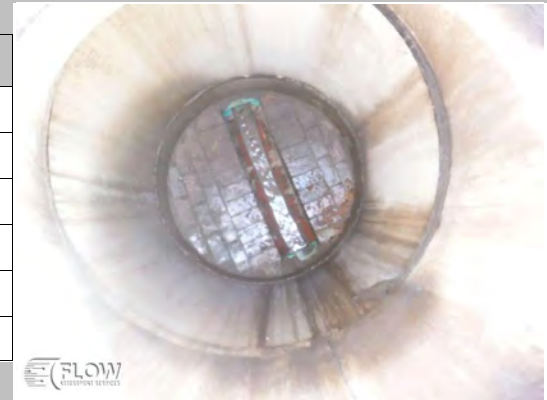


Ft. to DS MH #: NW

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5818 | 10' 05" | 12 | PVC | | 1.00 | 0 | | | 0 |
| OUT TO | NW | 10' 06" | 12 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1327 |
| Street: | Brewery Avenue R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1328 |
| Street: | Jewell Court R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

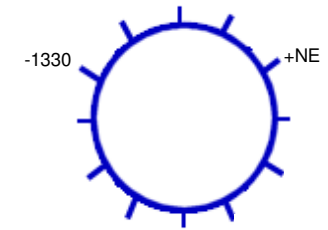
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1329 |
| Street: | 95 Brewery Lane Behind building | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1330

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 2 In. | Drainage Area 1: 4 X 4 X 0.3 = 4.8 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | CNI | 0 | | | Holding water |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 14 Feet

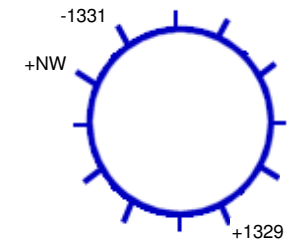
| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 13' 11" | 24 | RCP | | 0 | 0 | | | 0 | Bulkheaded |
| OUT TO | 1330 | 14' 00" | 24 | CIP | | 23.00 | 0 | | | 0 | Standing flow |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1330 |
| Street: | 95 Brewery Lane Behind building | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1331

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|----------------------------------|---|----------------------------------|--|----------------|-----------|
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 4 X 2 X 0.3 = 2.4 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments: Invert appears to be gone/sinking

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-------------|-----------|-------------|-------|---------------|
| FRAME | CAST | 3 | | | Missing piece |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | STONE/BRICK | 4 | | | |
| INVERT | NONE | 5 | | | Invert gone |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

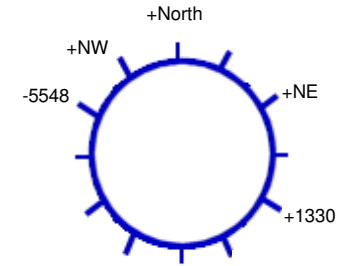
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NW | 01' 05" | 4 | PVC | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 1329 | 11' 03" | UNK | UNK | | 3.00 | 0 | | | 0 | |
| OUT TO | 1331 | 11' 04" | UNK | UNK | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1331 |
| Street: | 125 Brewery Lane | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5548

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 1 In. | Drainage Area 1: 2 X 2 X 0.3 = 1.2 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken bricks |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK/STONE | 3 | | | Heavy roots |
| FLOOR | CNI | 3 | | | Standing water |
| INVERT | CNI | 3 | | | Standing water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 10' 09" | 10 | PVC | | UNK | 0 | | | 0 | Inside drop |
| IN FROM | North | 04' 08" | 10 | PVC | | UNK | 0 | | | 0 | Inside drop |
| IN FROM | NW | 04' 10" | 8 | PVC | | UNK | 0 | | | 0 | Inside drop |
| IN FROM | 1330 | 14' 01" | UNK | UNK | | UNK | 0 | | | 0 | |
| OUT TO | 5548 | 14' 02" | 24 | PVC | | UNK | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1333 |
| Street: | Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|------------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1334 |
| Street: | Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1335 |
| Street: | Albany Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1338 |
| Street: | Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1339 |
| Street: | Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1340 |
| Street: | Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

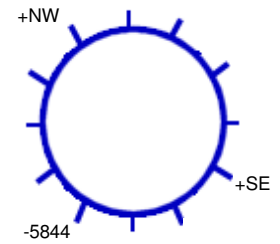
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1344 |
| Street: | Madison Street at Lovell Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 X 0 X 0.9 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 5844

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | NONE | 0 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 06' 01" | 10 | PVC | | 0.30 | 0 | | | 0 |
| IN FROM | SE | 06' 01" | 12 | PVC | | 0.75 | 0 | | | 0 |
| OUT TO | 5844 | 06' 02" | 12 | PVC | | 0.75 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

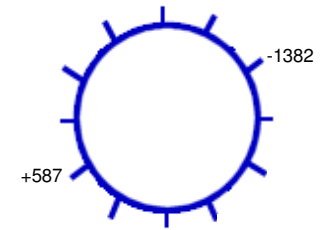
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1381 |
| Street: | 12 Hampshire Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 15 | X 2 X 0.9 = 27.0 (SQFT) | Holes In Cover | 4 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1382

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 3 | | | Weeping infiltration and mineral depositis |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

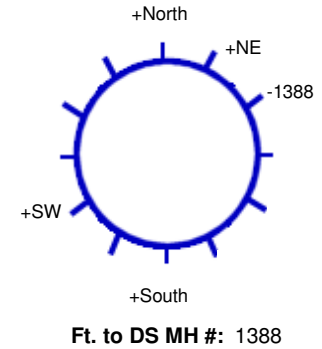
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 587 | 07' 10" | 10 | ACP | | 1.50 | 0 | | | 0 | |
| OUT TO | 1382 | 07' 10" | 10 | ACP | | 1.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1387 |
| Street: | 400 US Bypass 1 | | | Sub-System: | HS11 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.25 In. | 6 X 6 X 0.9 = | 32.4 (SQFT) | Holes In Cover | 2 0.5 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 2 | | | Light roots |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BLOCK | 3 | 0.1 | | Mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 6 Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM NE | | 05' 11" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM North | | 12' 00" | 10 | VCP | | 1.00 | 0 | | | 0 |
| IN FROM South | | 06' 09" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM SW | | 12' 00" | 18 | VCP | | 8.00 | 0 | | | 0 |
| OUT TO 1388 | | 12' 00" | 18 | VCP | | 8.00 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

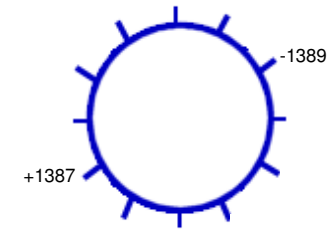
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1388 |
| Street: | 400 US Bypass 1 at rear | | | Sub-System: | HS11 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 10 | X 10 X 0.9 = 90.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1389

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 1387 | 11' 04" | 12 | PVC | | 7.00 | 0 | | | 0 | |
| OUT TO | 1389 | 11' 05" | 12 | PVC | | 7.00 | 0 | | | 0 | |



06.21.2017 18:28

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



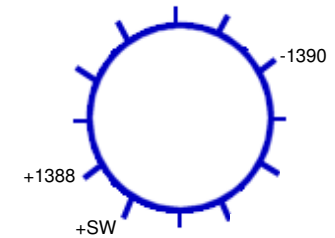
Municipality: Portsmouth, NH
 Street: 400 US Bypass 1 at rear
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1389
 Sub-System: HS11

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.75 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 5 X 5 X 0.9 = 22.5 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 1390

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | CAST | 3 | | | Broken and missing |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 02' 08" | 2 | CIP | | 0 | 0 | | | 0 | |
| IN FROM | 1388 | 11' 03" | 18 | VCP | | 6.00 | 0 | | | 0 | |
| OUT TO | 1390 | 11' 04" | 18 | VCP | | 6.00 | 0 | | | 0 | |

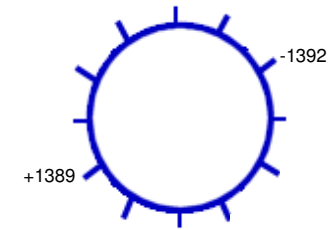
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1390 |
| Street: | 43 Cate Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 0.5 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1392

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 3 | | | Mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1389 | 08' 06" | 18 | VCP | | 6.00 | 0 | | | 0 |
| OUT TO | 1392 | 08' 07" | 18 | VCP | | 6.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

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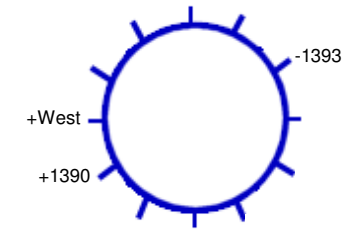
Municipality: Portsmouth, NH
 Street: 3 Cate Street
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1392
 Sub-System: HS11

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 3 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 5 X 5 X 0.3 = 7.5 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 0.5



Ft. to DS MH #: 1393

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 05' 03" | 12 | VCP | | 2.00 | 0 | | | 0 | Standing flow |
| IN FROM | 1390 | 05' 03" | 18 | VCP | | 3.00 | 0 | | | 0 | Fast flow |
| OUT TO | 1393 | 05' 04" | 24 | VCP | | 3.00 | 0 | | | 0 | Fast flow |

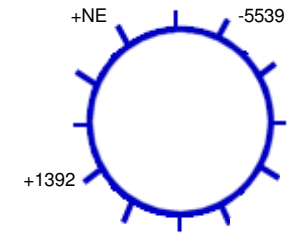
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1393 |
| Street: | 1 Cate Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5539

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 3 X 0.9 = 27.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments: Map shows connection to 1394, no connection found

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 05' 07" | 6 | PVC | | 0.25 | 0 | | | 0 | Service |
| IN FROM | 1392 | 06' 04" | 22 | PVC | | 3.00 | 0 | | | 0 | |
| OUT TO | 5539 | 06' 04" | 22 | PVC | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1394 |
| Street: | Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1395 |
| Street: | Bartlett Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1396 |
| Street: | Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

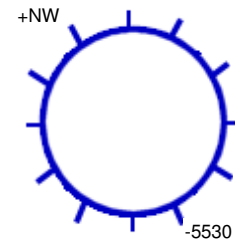
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1397 |
| Street: | 175 Barlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 2 X 0.9 = 7.2 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5530

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Covered in water and debris |
| INVERT | CNI | 0 | | | Covered in water and debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NW | 06' 05" | 8 | VCP | | 1.00 | 0 | | | 0 | Clogged |
| OUT TO | 5530 | 06' 07" | 10 | PVC | | 1.00 | 0 | | | 0 | |

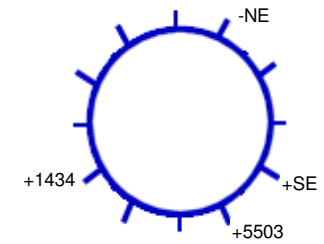
P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1432 |
| Street: | 933 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: NE

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments: Needs to be cleaned

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | PLASTIC | 1 | | | 4 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 3 | | | Heavy debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 08' 03" | 15 | PVC | | 0 | 3.00 | | | 0 | |
| IN FROM | 1434 | 08' 04" | 15 | PVC | | 2.00 | 0.50 | | | 0 | |
| IN FROM | 5503 | 08' 03" | 15 | PVC | | 1.00 | 2.00 | | | 0 | |
| OUT TO | NE | 08' 05" | 15 | PVC | | 2.00 | 0 | | | 0 | |

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☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1434 |
| Street: | Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

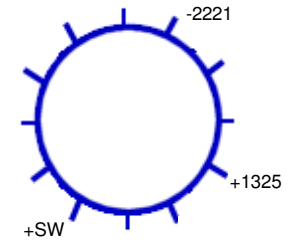
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1437 |
| Street: | Islington Street at Aldrich Road | | | Sub-System: | HS11 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 5 X 4 X 0.9 = | 18.0 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2221

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

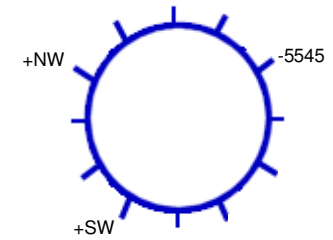
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 10' 04" | 15 | VCP | | 4.00 | 0 | | | 0 | |
| IN FROM | 1325 | 09' 05" | 8 | VCP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2221 | 10' 05" | 15 | VCP | | 4.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1439 |
| Street: | Islington Street at Elm Court | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5545

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | BRICK | 1 | | | 2 steps |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 07' 06" | 10 | VCP | | 0.25 | 0 | | | 0 |
| IN FROM | SW | 08' 03" | 15 | VCP | | 3.00 | 0 | | | 0 |
| OUT TO | 5545 | 08' 04" | 15 | VCP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1440 |
| Street: | 674 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

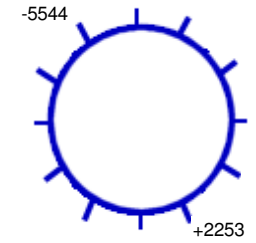
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1441 |
| Street: | 650 Islington Street Parking lot | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|---|--|---|--|-----------------------|------------------|
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT In. | | 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1.5 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 5544

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Offset 4" |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BLOCK | 2 | | | Missing mortar |
| INVERT | GRANITE BLOCK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2253 | 09' 00" | 32 | PVC | | 0.25 | 1.00 | | | 0 | |
| OUT TO | 5544 | 09' 01" | 48 | BLOCK | | 0.25 | 0.50 | | | 0 | |

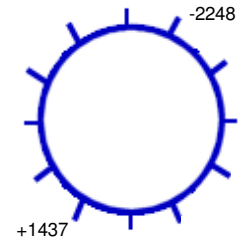
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2221 |
| Street: | 871 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 5 | X 4 X 0.9 = 18.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2248

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Cracked and missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 2 | 1 | | Missing mortar, leak in wall near floor |
| FLOOR | BRICK | 1 | | | |
| INVERT | NONE | 0 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1437 | 11' 01" | 15 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 2248 | 11' 01" | 18 | VCP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2243 |
| Street: | Bartlett Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|------------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2244 |
| Street: | Bartlett Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

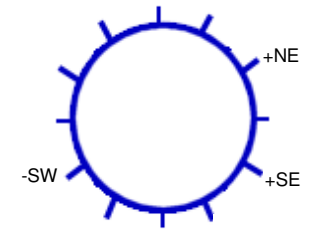
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2245 |
| Street: | 601 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 21 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5541

General Comments: Needs to be cleaned

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | STEEL | 3 | | | Rusted |
| WALLS | PRECAST | 2 | | | Roots |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM NE | | 11' 11" | 16 | UNK | | 0.25 | 0 | | | 0 |
| IN FROM SE | | 07' 11" | 10 | VCP | | 0 | 0 | | | 0 |
| OUT TO SW | | 12' 01" | 16 | UNK | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2246 |
| Street: | Bartlett Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

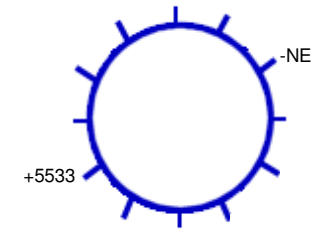
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2247 |
| Street: | Ricci Lumber Yard | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NE

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5533 | 07' 03" | 36 | BRK | | 4.00 | 0.50 | | | 0 |
| OUT TO | NE | 07' 04" | 36 | BRK | | 4.00 | 0.50 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

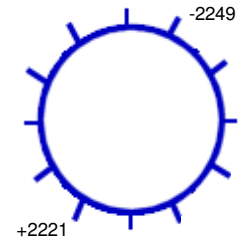
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2248 |
| Street: | 801 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | -- -- |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2249

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PRECAST | 1 | | | |
| INVERT | NONE | 0 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2221 | 07' 07" | 15 | PVC | | 2.50 | 0 | | | 0 | |
| OUT TO | 2249 | 07' 08" | 15 | PVC | | 2.50 | 0 | | | 0 | |

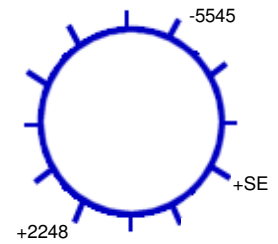
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2249 |
| Street: | 737 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | -- -- |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5545

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-------------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | OPEN PLASTIC PIPE | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 06' 05" | 8 | PVC | | 0.50 | 0 | | | 0 | |
| IN FROM | 2248 | 07' 03" | 12 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 5545 | 07' 04" | 12 | PVC | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2251 |
| Street: | Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

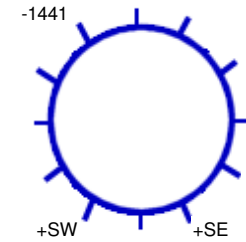
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2253 |
| Street: | 650 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5543

General Comments: Map indicates MH 2253 is more downstream - this could be an unmapped manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | GRANITE BLOCK | 2 | | | Missing mortar |
| INVERT | GRANITE BLOCK | 2 | | | Missing mortar |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM SE | | 08' 10" | 36 | UNK | | 0.50 | 2.00 | | | 0 |
| IN FROM SW | | 07' 01" | 4 | PVC | | 0.10 | 0 | | | 0 Service |
| OUT TO 1441 | | 08' 10" | 36 | UNK | | 0.50 | 2.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2254 |
| Street: | Chevrolet Avenue | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2255 |
| Street: | Chevrolet Avenue | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|----------------------------------|----------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X | X 0.9 = (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

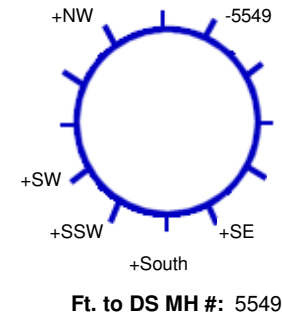
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2741 |
| Street: | Lovell Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | BRICK | 3 | | | Missing bricks |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

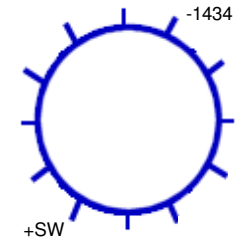
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|------------------------------|
| IN FROM | NW | 08' 00" | 15 | RCP | | 0 | 0 | | | 0 | Inside drop, bulkheaded |
| IN FROM | SE | 09' 11" | 10 | ACP | | 0.20 | 0 | | | 0 | |
| IN FROM | South | 09' 07" | 10 | VCP | | 0.50 | 0 | | | 0 | Filled with mineral deposits |
| IN FROM | SSW | 09' 07" | 8 | VCP | | 0.20 | 0 | | | 0 | |
| IN FROM | SW | 10' 00" | 18 | RCP | | 0.20 | 0 | | | 0 | |
| OUT TO | 5549 | 10' 04" | 10 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2744 |
| Street: | 1046 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1434

| | | | | | |
|---|-------------------------------|---|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SW | 13' 08" | 15 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 1434 | 13' 09" | 15 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5096 |
| Street: | Lovell Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Did not enter

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5333 |
| Street: | Brewery Avenue R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

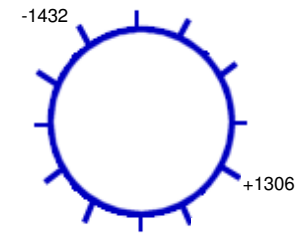
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5503 |
| Street: | Thaxter Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1432

General Comments: Needs to be cleaned

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | PLASTIC | 1 | | | 4 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Heavy mud |
| INVERT | BRICK | 3 | | | Heavy debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1306 | 08' 07" | 15 | PVC | | 2.00 | 1.00 | | | 0 |
| OUT TO | 1432 | 08' 08" | 15 | PVC | | 2.00 | 1.50 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

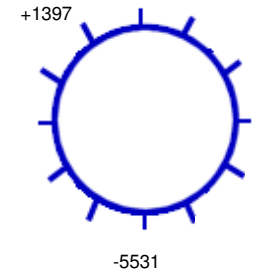
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5530 |
| Street: | 124 Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5531

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Heavy mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1397 | 06' 07" | 12 | PVC | | 1.00 | 0.20 | | | 0 |
| OUT TO | 5531 | 06' 09" | 10 | PVC | | 1.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

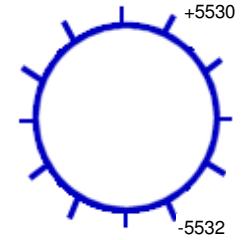
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5531 |
| Street: | 127 Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5532

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Heavy mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Heavy mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5530 | 06' 01" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 5532 | 06' 03" | 10 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

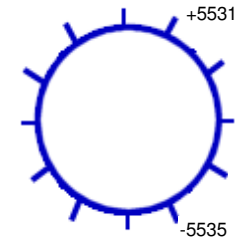
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5532 |
| Street: | 127 Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5535

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Heavy mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Heavy mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5531 | 06' 02" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 5535 | 06' 04" | 10 | PVC | | 1.50 | 0.25 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

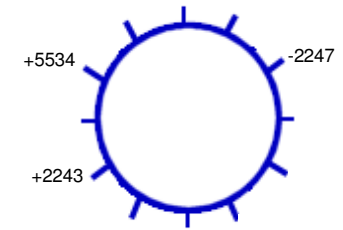
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5533 |
| Street: | 105 Bartlett Street Fenced area | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2247

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Rusted |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2243 | 08' 00" | 36 | BRK | | 1.00 | 1.00 | | | 0 | |
| IN FROM | 5534 | 07' 08" | 30 | PVC | | 6.00 | 0.50 | | | 0 | |
| OUT TO | 2247 | 08' 02" | 36 | BRK | | 7.00 | 1.00 | | | 0 | |

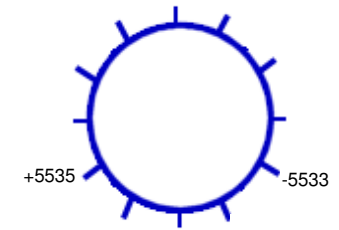
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5534 |
| Street: | 105 Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 3 X 0.9 = 54.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5533

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

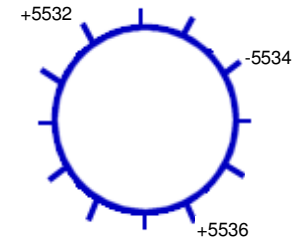
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5535 | 07' 11" | 30 | PVC | | 6.00 | 0 | | | 0 | |
| OUT TO | 5533 | 08' 03" | 30 | PVC | | 6.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5535 |
| Street: | 54 Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5534

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Heavy mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5532 | 06' 04" | 10 | PVC | | 2.00 | 0 | | | 0 |
| IN FROM | 5536 | 08' 04" | 36 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 5534 | 08' 05" | 36 | PVC | | 5.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

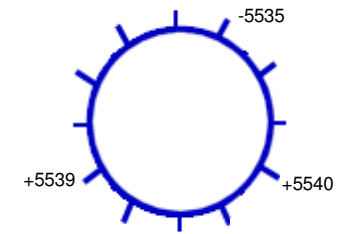
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5536 |
| Street: | Bartlett Street at Cate Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 X 2 X 0.9 = | 7.2 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 5535

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken bricks |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5539 | 05' 01" | 18 | PVC | | 4.00 | 0 | | | 0 |
| IN FROM | 5540 | 08' 00" | 30 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 5535 | 08' 01" | 36 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5537 |
| Street: | Jewell Court | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|--|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | Holes In Cover QTY SIZE (In) -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

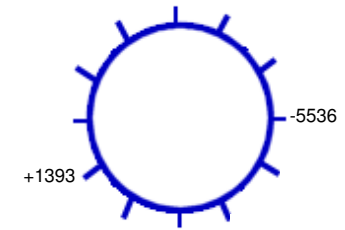
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5539 |
| Street: | Bartlett Street at Cate Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5536

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1393 | 05' 05" | 18 | PVC | | 3.00 | 0 | | | 0 | |
| OUT TO | 5536 | 05' 06" | 18 | PVC | | 3.00 | 0 | | | 0 | |

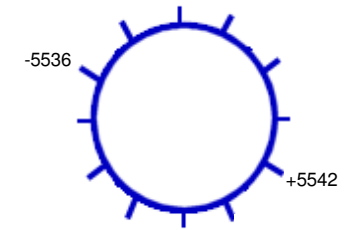
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5540 |
| Street: | 653 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNI: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 8 | X 40 X 0.9 = 288.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5536

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5542 | 08' 00" | 32 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 5536 | 08' 03" | 32 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

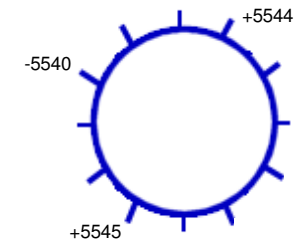
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5542 |
| Street: | Islington Street at Bartlett Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5540

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5544 | 08' 00" | 30 | PVC | | 3.00 | 1.00 | | | 0 |
| IN FROM | 5545 | 08' 04" | 27 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 5540 | 08' 07" | 30 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

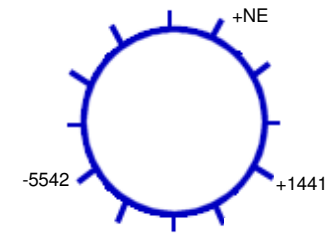
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5544 |
| Street: | 653 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 200 | X 6 X 0.9 = 1080.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5542

General Comments: Map shows connection to MH 2246, no connection found

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NE | 08' 04" | 10 | PVC | | 0.10 | 0 | | | 0 |
| IN FROM | 1441 | 09' 00" | 32 | PVC | | 0.50 | 0.50 | | | 0 |
| OUT TO | 5542 | 09' 03" | 32 | PVC | | 1.00 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

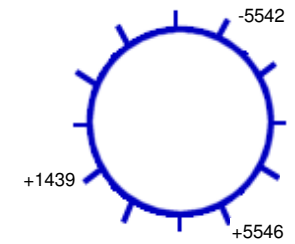
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5545 |
| Street: | Islington Street at Jewell Court | | | Sub-System: | HS11 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5542

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1439 | 08' 11" | 15 | PVC | | 1.50 | 0 | | | 0 | |
| IN FROM | 5546 | 09' 02" | 24 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 5542 | 09' 04" | 24 | PVC | | 2.00 | 0 | | | 0 | |

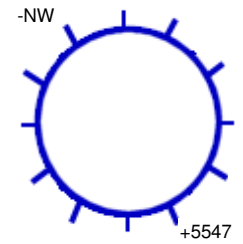
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5546 |
| Street: | 738 Islington Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NW

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5547 | 11' 10" | 24 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | NW | 11' 11" | 24 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

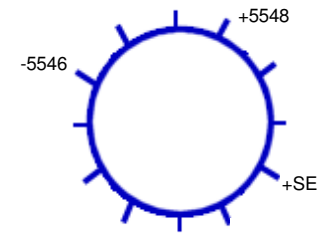
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5547 |
| Street: | 125 Brewery Lane | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5546

| | | | | | |
|---|--|----------------------------------|--|----------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: | AT In. | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover -- -- | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM SE | | 14' 08" | 18 | PVC | | 1.50 | 0 | | | 0 |
| IN FROM 5548 | | 14' 07" | 18 | PVC | | 2.50 | 0 | | | 0 |
| OUT TO 5546 | | 14' 10" | 24 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

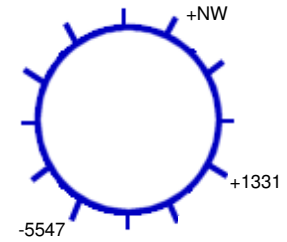
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5548 |
| Street: | 125 Brewery Lane | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 5547

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 13' 07" | 18 | PVC | | 2.00 | 0 | | | 0 |
| IN FROM | 1331 | 13' 06" | 24 | PVC | | 1.00 | 0 | | | 0 |
| OUT TO | 5547 | 13' 08" | 18 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

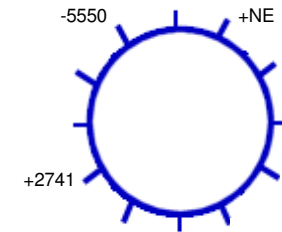
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5549 |
| Street: | Lovell Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5550

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

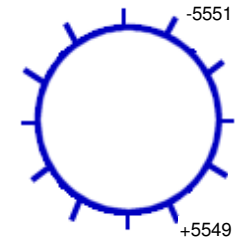
| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 05' 10" | 8 | PVC | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 2741 | 10' 03" | 12 | PVC | | 0.75 | 0 | | | 0 | |
| OUT TO | 5550 | 10' 04" | 12 | PVC | | 0.75 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5550 |
| Street: | Lovell Street R.O.W. | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5551

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 10 | X 3 X 0.3 = 9.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5549 | 08' 00" | 12 | PVC | | 0.75 | 0 | | | 0 |
| OUT TO | 5551 | 08' 01" | 12 | PVC | | 0.75 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

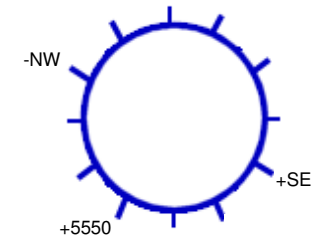
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5551 |
| Street: | 125 Brewery Lane | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 0.5 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: NW

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 08' 07" | 12 | PVC | | 1.00 | 0.50 | | | 0 | |
| IN FROM | 5550 | 08' 05" | 12 | PVC | | 0.75 | 0 | | | 0 | |
| OUT TO | NW | 08' 08" | 12 | PVC | | 1.25 | 0.50 | | | 0 | |

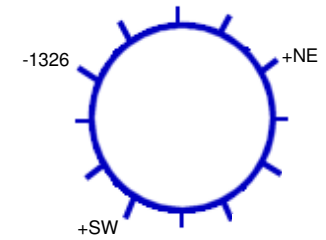
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5818 |
| Street: | 130 Aldrich Road | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

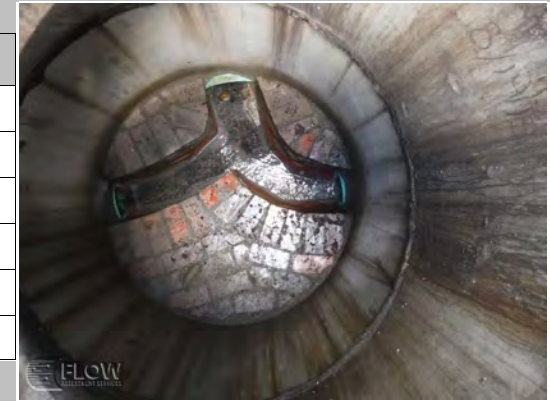


Ft. to DS MH #: 1326

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 2 | | | Heavy debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 08' 01" | 8 | PVC | | 0.50 | 1.50 | | | 0 | |
| IN FROM | SW | 08' 02" | 8 | PVC | | 1.00 | 0 | | | 0 | |
| OUT TO | 1326 | 08' 03" | 10 | PVC | | 1.00 | 0 | | | 0 | Standing flow |

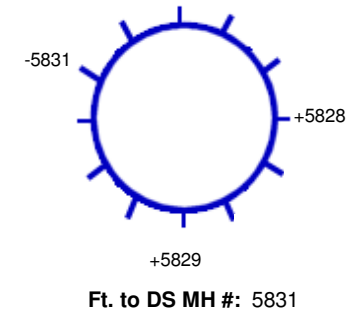
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5830 |
| Street: | 255 Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments: See map change

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5828 | 07' 06" | 8 | PVC | | 0 | 0 | | | 0 |
| IN FROM | 5829 | 07' 06" | 8 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 5831 | 07' 07" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

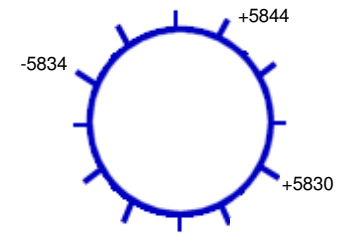
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5831 |
| Street: | Cass Street at Lovell Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5834

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 X 0 X 0.9 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

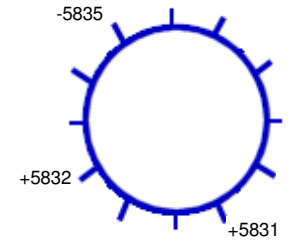
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5830 | 07' 00" | 8 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | 5844 | 07' 04" | 12 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 5834 | 07' 04" | 12 | PVC | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5834 |
| Street: | Cass Street at Lovell Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 X 0 X 0.9 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5831 | 07' 06" | 12 | PVC | | 1.00 | 0 | | | 0 |
| IN FROM | 5832 | 07' 06" | 10 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 5835 | 07' 07" | 12 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

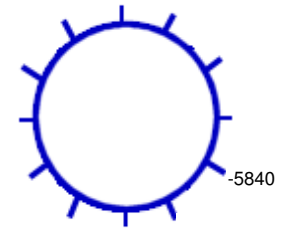
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5839 |
| Street: | Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 5840

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 5840 | 07' 06" | 8 | PVC | | 0 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

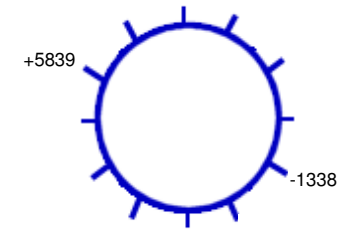
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5840 |
| Street: | 56 Cass Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1338

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5839 | 07' 11" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 1338 | 08' 01" | 8 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

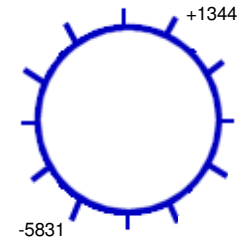
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5844 |
| Street: | 55 Lovell Street | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 X 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5831

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1344 | 06' 09" | 12 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 5831 | 06' 10" | 12 | PVC | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

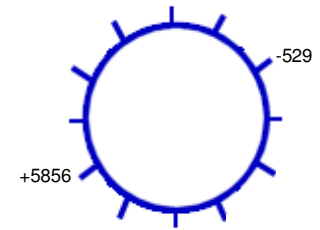
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5855 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS11 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 529

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 36 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Offset 2", missing mortar |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | CNI | 0 | | | Sludge on floor and invert |
| INVERT | CNI | 0 | | | Sludge on floor and invert |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5856 | 11' 00" | 24 | UNK | | 10.00 | 0 | | | 0 |
| OUT TO | 529 | 11' 01" | 24 | UNK | | 10.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

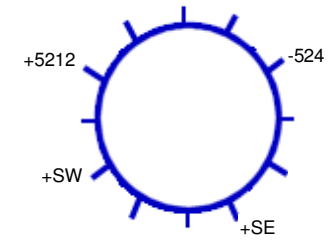
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 523 |
| Street: | 330 Borthwick Avenue | | | Sub-System: | HS14 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 524

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | PLASTIC | 1 | | | 13 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 03' 11" | 8 | PVC | | 0.50 | 0 | | | 0 | Outside drop |
| IN FROM | SW | 18' 02" | 15 | PVC | | 4.00 | 0 | | | 0 | |
| IN FROM | 5212 | 07' 06" | 10 | PVC | | 0 | 0 | | | 0 | Outside drop |
| OUT TO | 524 | 18' 04" | 15 | PVC | | 4.00 | 0 | | | 0 | |

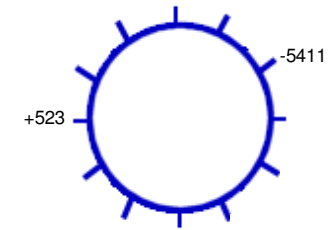
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 524 |
| Street: | Borthwick Avenue Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------|---|------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: ABOVE | 5 In. | 0 X 0 X 0.3 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 5411

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 523 | 20' 03" | 18 | PVC | | 6.00 | 0 | | | 0 |
| OUT TO | 5411 | 20' 04" | 18 | PVC | | 6.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

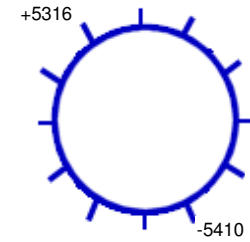
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 527 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 2 In. | 0 | X 0 0.3 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5410

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5316 | 11' 01" | 10 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 5410 | 11' 01" | 10 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

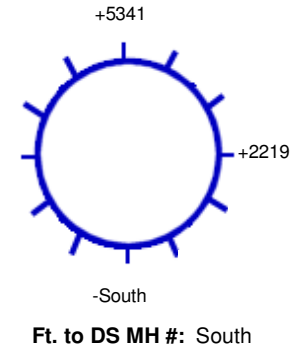
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 530 |
| Street: | Bostwick Avenue In front of Granite Group | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 3 In. | 20 | X 50 X 0.3 = 300.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 2 | | | Offset 3" |
| CORBEL | PARGED | 1 | | | |
| STEPS | PLASTIC | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2219 | 08' 03" | 10 | PVC | | 0.10 | 0 | | | 0 | |
| IN FROM | 5341 | 08' 01" | 10 | PVC | | 0.10 | 0 | | | 0 | |
| OUT TO | South | 08' 03" | 10 | PVC | | 0.25 | 0 | | | 0 | |

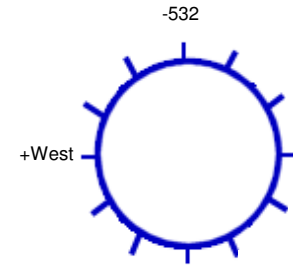
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 54 Coakley Road
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **531**
 Sub-System: **HS14**



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 5 X 75 X 0.9 = 337.5 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

QTY SIZE (In)
 Holes In Cover 1 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 06' 03" | UNK | UNK | | 0 | 1.00 | | | 0 | Service |
| OUT TO | 532 | 06' 05" | 8 | VCP | | 0 | 0 | | | 0 | |

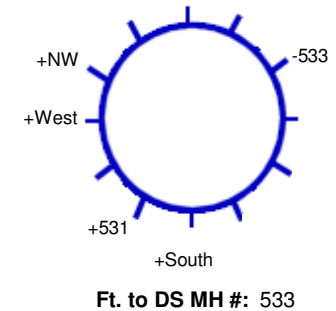
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 19 Coakley Road
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 532
 Sub-System: HS14



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 4 X 0.9 = 14.4 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 1 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Loose brick |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 06' 05" | 6 | UNK | | 0 | 0.25 | | | 0 | Service |
| IN FROM | South | 04' 00" | 8 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | West | 04' 01" | 8 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | 531 | 06' 06" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 533 | 06' 06" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |

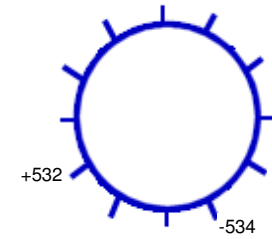
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 533 |
| Street: | 30 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 534

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Loose brick |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 532 | 10' 03" | 8 | VCP | | 0.10 | 0.10 | | | 0 |
| OUT TO | 534 | 10' 03" | 8 | VCP | | 0.10 | 0.10 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

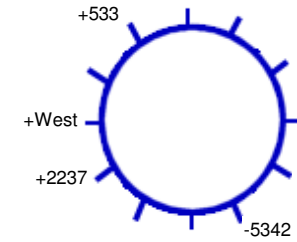
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 534 |
| Street: | 10 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5342

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 2 | | | Offset 3" |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PARGED | 1 | | | |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | CNI | 0 | | | Sediment |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 05' 02" | 8 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | 533 | 09' 04" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |
| IN FROM | 2237 | 09' 05" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 5342 | 09' 06" | 8 | VCP | | 0.50 | 0 | | | 0 | |

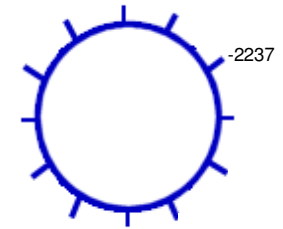
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 535 |
| Street: | 11 Larry Lane | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1.5 In. | 75 X 6 X 0.9 = | 405.0 (SQFT) | Holes In Cover | 1 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



+South
Ft. to DS MH #: 2237

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

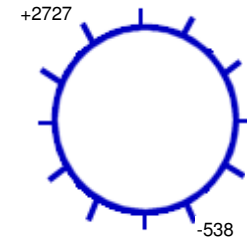
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 04' 06" | 4 | OBS | | 0 | 0 | | | 0 | Service |
| OUT TO | 2237 | 05' 02" | 8 | VCP | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 537 |
| Street: | 70 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 538

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2727 | 07' 00" | 8 | VCP | | 0.10 | 0 | | | 0 |
| OUT TO | 538 | 07' 01" | 10 | VCP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

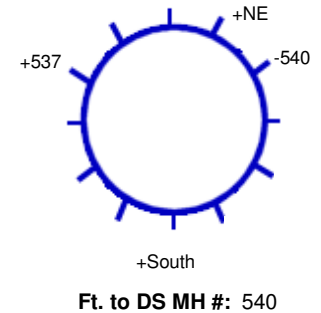
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 538 |
| Street: | 78 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|--|--|----------------------------------|--|--------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: AT In. | | 4 X 4 X 0.9 = 14.4 (SQFT) | | Holes In Cover 1 1 | |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 03' 10" | 8 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | South | 06' 09" | 4 | UNK | | 0 | 0.25 | | | 0 | Service |
| IN FROM | 537 | 07' 00" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 540 | 07' 02" | 8 | VCP | | 0.10 | 0 | | | 0 | |

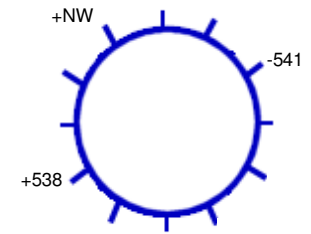
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 540 |
| Street: | 96 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 3 In. | 4 | X 100 X 0.9 = 360.0 (SQFT) | Holes In Cover | 1 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 541

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------------|
| FRAME | CAST | 3 | | | Broken |
| CORBEL | BRICK | 3 | | | Missing and loose bricks |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|-------------------------|
| IN FROM | NW | 07' 11" | 8 | VCP | | 0 | 1.00 | | | 0 | Possible abandoned line |
| IN FROM | 538 | 07' 11" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 541 | 07' 11" | 8 | VCP | | 0.10 | 0.10 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



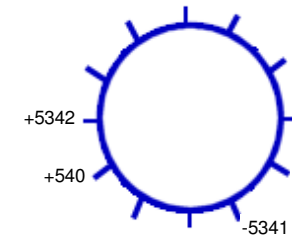
Municipality: Portsmouth, NH
 Street: 2 Coakley Road
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **541**
 Sub-System: **HS14**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 200 X 0.9 = 720.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 5341

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | CNI | 0 | | | Sediment |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

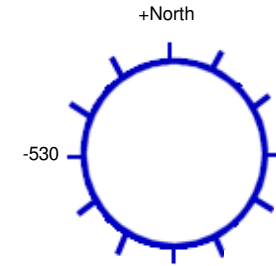
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| IN FROM | 540 | 06' 04" | 10 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | 5342 | 07' 05" | 10 | VCP | | UNK | 3.00 | | | 0 | Could not see flow due to heavy ragging |
| OUT TO | 5341 | 07' 05" | 10 | VCP | | 0.25 | 1.00 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2219 |
| Street: | Bostwick Avenue at Marriot Hotel | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 530

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|----------------------------------|--|----------------------------------|------------|----------------|-----------|
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 X 2 X 0.9 = | 7.2 (SQFT) | Holes In Cover | 2 1.25 |
| | | Drainage Area 2: (if applicable) | | | |
| | | 2 X 2 X 0.3 = | 1.2 (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration, mineral deposits at outlet |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | North | 05' 09" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 530 | 05' 11" | 10 | UNK | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

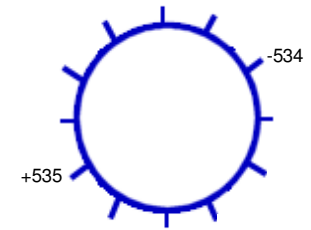
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2237 |
| Street: | 3 Larry Lane | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 200 X 4 X 0.9 = | 720.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 534

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------------------------|
| FRAME | CAST | 2 | | | Offset 4" |
| CORBEL | BRICK | 2 | | | Loose brick, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | LINED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 535 | 05' 11" | 8 | LINED | | 0 | 0 | | | 0 |
| OUT TO | 534 | 05' 08" | 8 | LINED | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

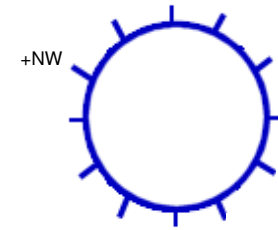
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
 Street: 58 Coakley Road
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2727
 Sub-System: HS14



Ft. to DS MH #: 537

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 50 X 0.9 = 180.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

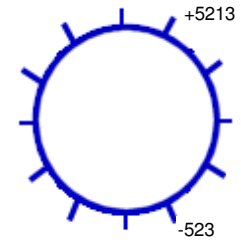
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 06' 08" | 4 | UNK | | 0 | 0 | | | 0 | Service |
| OUT TO | 537 | 08' 02" | 8 | VCP | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5212 |
| Street: | 330 Borthwick Avenue | | | Sub-System: | HS14 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 523

| | | | | | |
|---|-------------------------------|--|--|----------------|-------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 0.5 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | PLASTIC | 1 | | | 3 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Debris |
| INVERT | BRICK | 2 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|-------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5213 | 06' 04" | 8 | PVC | | 0.50 | 0 | | | 0 |
| Line possibly abandoned | | | | | | | | | | |
| OUT TO | 523 | 06' 05" | 8 | PVC | | 0 | 2.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

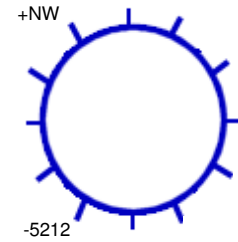
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5213 |
| Street: | Borthwick Avenue | | | Sub-System: | HS14 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5212

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | PLASTIC | 1 | | | 4 steps |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 2 | | | Mud |
| INVERT | PARGED | 2 | | | Mud, 3" of debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 09' 01" | 8 | PVC | | 0 | 4.00 | | | 0 |
| OUT TO | 5212 | 09' 02" | 8 | PVC | | 0 | 2.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

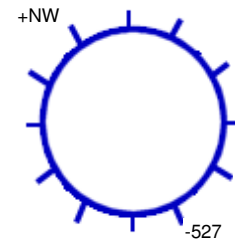
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5316 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 527

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 2 In. | 2 X 2 X 0.3 = | 1.2 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments: In wetland

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 3 | 0.5 | | Missing mortar, leaking between areas of missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | 1 | | Walls leaking |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 06' 10" | 10 | PVC | | 0.25 | 0 | | | 0 | |
| OUT TO | 527 | 06' 11" | 10 | PVC | | 0.25 | 0 | | | 0 | |

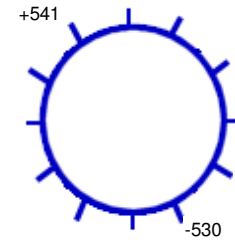
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5341 |
| Street: | Granite Group parking lot | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 50 | X 4 X 0.9 = 180.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 530

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | PLASTIC | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 541 | 06' 09" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 530 | 06' 10" | 10 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

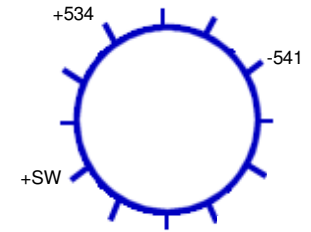
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5342 |
| Street: | 2 Coakley Road | | | Sub-System: | HS14 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 541

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 X 20 X 0.9 = | 180.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SW | 09' 02" | UNK | UNK | | 0 | 0.25 | | | 0 |
| IN FROM | 534 | 09' 01" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 541 | 09' 00" | 8 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

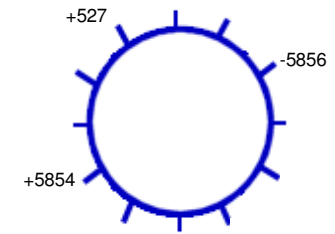
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5410 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 5856

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|---|-----|---|--|----------------|------------------|
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 527 | 13' 11" | 12 | UNK | | 2.00 | 0 | | | 0 | |
| IN FROM | 5854 | 13' 10" | 24 | UNK | | 3.00 | 0 | | | 0 | |
| OUT TO | 5856 | 14' 00" | 12 | UNK | | 6.00 | 0 | | | 0 | |

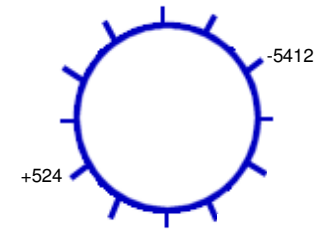
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5411 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 3 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5412

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|------------------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 524 | 15' 05" | 18 | PVC | | 3.00 | 0 | | | 0 | Leak noted in flow isolation |
| OUT TO | 5412 | 15' 06" | 18 | PVC | | 3.00 | 0 | | | 0 | |

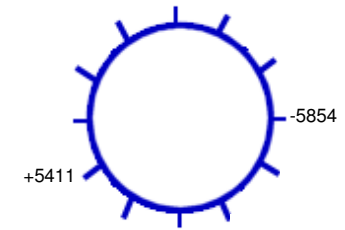
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5412 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 0.3 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5854

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5411 | 17' 03" | 18 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 5854 | 17' 04" | 18 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



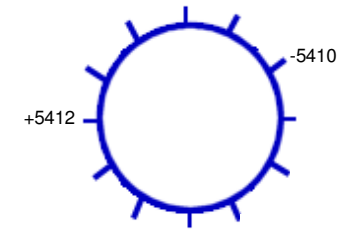
Municipality: Portsmouth, NH
Street: Barberry Lane Easement
Inspection Date: 6/22/2017 **Inspector:** RV/JC **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 5854
Sub-System: HS14

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: ABOVE 6 In.
 Blind flange

COVER INFLOW POTENTIAL
Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 5410

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | VINYL COATED | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5412 | 15' 08" | 24 | UNK | | 3.00 | 0 | | | 0 | |
| OUT TO | 5410 | 15' 09" | 24 | UNK | | 3.00 | 0 | | | 0 | |

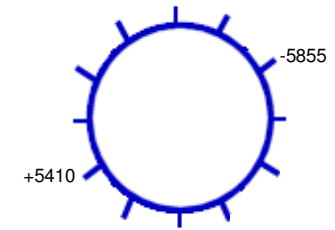
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5856 |
| Street: | Barberry Lane Easement | | | Sub-System: | HS14 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 5855

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 5410 | 12' 08" | 24 | UNK | | 10.00 | 0 | | | 0 | |
| OUT TO | 5855 | 12' 09" | 24 | UNK | | 10.00 | 0 | | | 0 | |

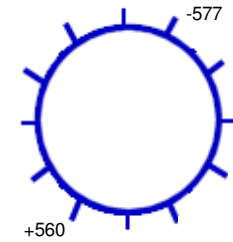
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 563 |
| Street: | Marjorie Street at Middle Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 563

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 560 | 07' 02" | 8 | VCP | | 0.50 | 0 | | | |
| OUT TO | 577 | 07' 03" | 8 | VCP | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

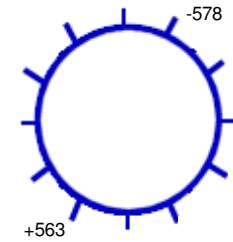
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 577 |
| Street: | 568 Middle Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.3 In. | 5 | X 2 X 0.9 = 9.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 578

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 563 | 07' 08" | 8 | VCP | | 0.25 | 0 | | | 0 |
| OUT TO | 578 | 07' 09" | 8 | VCP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

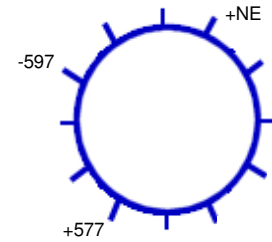
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 578 |
| Street: | 531 Middle Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 597

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.3 In. | Drainage Area 1: 4 X 2 X 0.9 = 7.2 (SQFT) | | Holes In Cover QTY: 2 SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 04' 04" | 6 | PVC | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 577 | 09' 09" | 8 | VCP | | 0.40 | 0 | | | 0 | Inside drop |
| OUT TO | 597 | 09' 11" | 8 | VCP | | 0.40 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



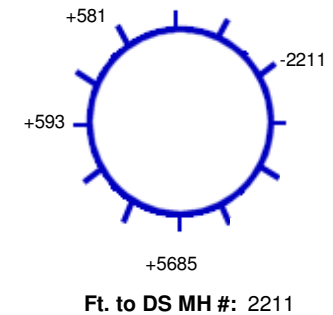
Municipality: Portsmouth, NH
 Street: 74 Sheffield Road
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 580
 Sub-System: HS15

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.3 = 1.2 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 581 | 09' 00" | 8 | PVC | | 1.00 | 0 | | | 0 | |
| IN FROM | 593 | 09' 00" | 8 | PVC | | 1.00 | 0 | | | 0 | |
| IN FROM | 5685 | 08' 09" | 8 | PVC | | 0.25 | 0 | | | 0 | |
| OUT TO | 2211 | 09' 01" | 8 | PVC | | 1.00 | 0 | | | 0 | |

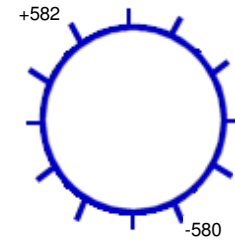
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 581 |
| Street: | 64 Sheffield Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 580

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken brick, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 582 | 06' 07" | 8 | VCP | | 0.60 | 0 | | | 0 | |
| OUT TO | 580 | 06' 08" | 8 | VCP | | 0.60 | 0 | | | 0 | |

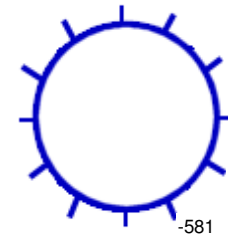
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 582 |
| Street: | 36 Sheffield Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|--------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 0 | X 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange, cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 581

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, broken, loose and missing bricks |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 0 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 581 | 05' 00" | 8 | VCP | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

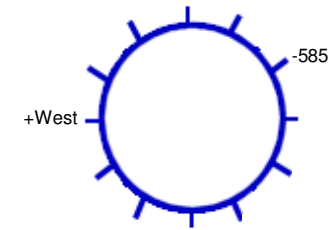
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 34 Hampshire Road
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 584
 Sub-System: HS15



Ft. to DS MH #: 585

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 1.25 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL

Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | CNI | 0 | | | Debris |
| INVERT | CNI | 0 | | | Debris |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 06' 08" | 3 | ACP | | 0 | 0 | | | 0 | Inside drop |
| OUT TO | 585 | 07' 02" | 8 | VCP | | 0 | 0 | | | 0 | |

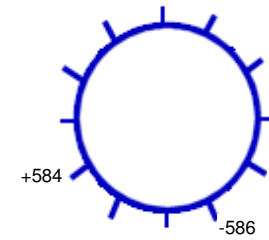
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 585 |
| Street: | 30 Hampshire Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 586

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, loose and broken bricks |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

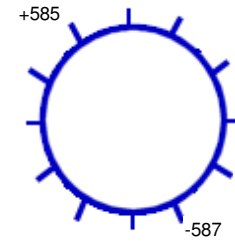
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 584 | 06' 08" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 586 | 06' 09" | 8 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 586 |
| Street: | 28 Hampshire Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 587

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | CNI | 0 | | | Debris |
| INVERT | CNI | 0 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 585 | 06' 05" | 8 | VCP | | 0.20 | 0 | | | 0 |
| OUT TO | 587 | 06' 06" | 8 | VCP | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

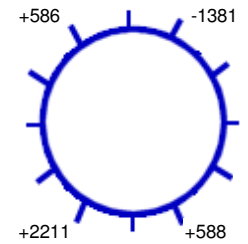
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 587 |
| Street: | 10 Hampshire Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1381

| | | | | | |
|---|-------------------------------|---|--|-----------------------|--------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.25 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 0.75 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, broken brick |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | CNI | 0 | | | Holding water |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 586 | 08' 06" | 8 | VCP | | 0.25 | 0 | | | 0 | Inside drop |
| IN FROM | 588 | 08' 04" | 8 | VCP | | 0.10 | 0 | | | 0 | Inside drop |
| IN FROM | 2211 | 09' 06" | 8 | VCP | | 0.75 | 0 | | | 0 | |
| OUT TO | 1381 | 09' 06" | 8 | VCP | | 1.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 588 |
| Street: | Hampshire Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

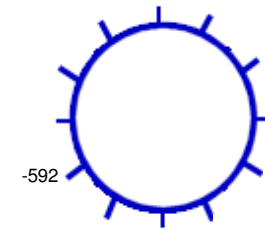
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 591 |
| Street: | Essex Avenue and Middle Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 592

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 3 | | | Weeping infiltration |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | CNI | 0 | | | Sediment |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 592 | 06' 01" | 8 | VCP | | 0 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

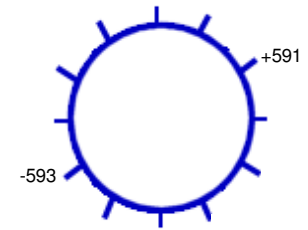
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 592 |
| Street: | Essex Avenue near easement | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 150 X 0.9 = 540.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 593

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-----------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | OPEN JOINT CLAY | 2 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 591 | 05' 05" | 8 | VCP | | 0.10 | 0 | | | 0 |
| OUT TO | 593 | 05' 06" | 8 | VCP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

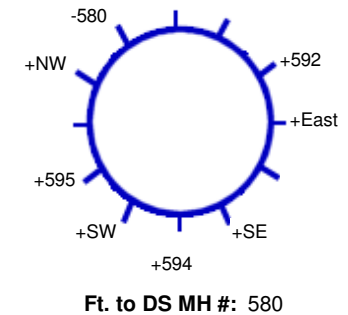
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 593 |
| Street: | 170 Essex Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 X 75 X 0.9 = | 270.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, loose bricks |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Holding water |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | East | 09' 01" | 10 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | NW | 03' 05" | 4 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | SE | 06' 01" | 4 | OBG | | 0 | 0 | | | 0 | Service |
| IN FROM | SW | 07' 11" | 10 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | 592 | 12' 02" | 10 | VCP | | 3.00 | 0 | | | 0 | |
| IN FROM | 594 | 10' 08" | 10 | VCP | | 0.25 | 0 | | | 0 | |
| IN FROM | 595 | 12' 02" | 10 | VCP | | 0.25 | 0 | | | 0 | |

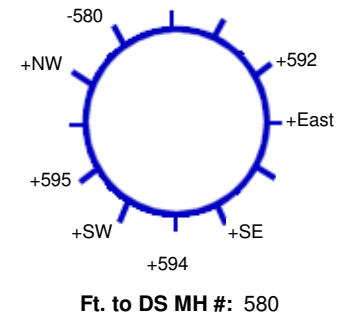
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 593 |
| Street: | 170 Essex Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. Cracked pavement surrounding frame | COVER INFLOW POTENTIAL Drainage Area 1: 4 X 75 X 0.9 = 270.0 (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | Holes In Cover <table border="1"> <thead> <tr> <th>QTY</th> <th>SIZE (In)</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>1</td> </tr> </tbody> </table> | QTY | SIZE (In) | 2 | 1 |
|--|--|--|-----|-----------|---|---|
| QTY | SIZE (In) | | | | | |
| 2 | 1 | | | | | |



| | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|
| General Comments: | | | | | | | | | | | |
|--------------------------|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|--------|-----|---------|----|-----|--|------|------|--|--|---|--|
| OUT TO | 580 | 12' 03" | 12 | VCP | | 3.00 | 1.00 | | | 0 | |
|--------|-----|---------|----|-----|--|------|------|--|--|---|--|

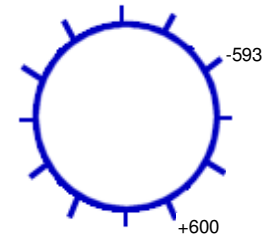
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 594 |
| Street: | 169 Essex Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 200 X 2 X 0.9 = | 360.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 593

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 600 | 12' 03" | 10 | VCP | | 0.10 | 0 | | | 0 |
| OUT TO | 593 | 12' 04" | 10 | VCP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



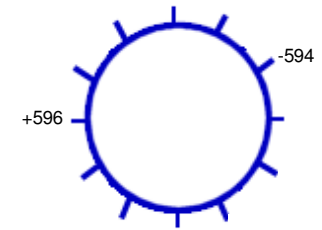
Municipality: Portsmouth, NH
 Street: 122 Essex Avenue
 Inspection Date: 6/20/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **595**
 Sub-System: **HS15**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 100 X 0.9 = 360.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 594

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-----------------|-----------|-------------|-------|--------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, missing bricks |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | OPEN JOINT CLAY | 2 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 596 | 14' 01" | 10 | VCP | | 0.25 | 0 | | | 0 | |
| OUT TO | 594 | 14' 02" | 10 | VCP | | 0.25 | 0 | | | 0 | |

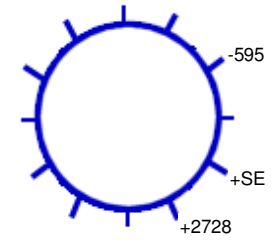
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 596 |
| Street: | Essex Avenue and Melbourne Street | | | Sub-System: | HS15 |
| Inspection Date: | 6/20/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 20 X 0.9 = 360.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 595

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Missing piece |
| CORBEL | BRICK | 2 | | | Deteriorating |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

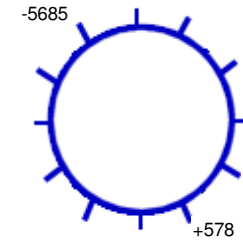
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 05' 09" | 8 | ACP | | 0 | 0 | | | 0 | |
| IN FROM | 2728 | 11' 10" | 10 | VCP | | 0.10 | 0.25 | | | 0 | |
| OUT TO | 595 | 11' 11" | 12 | VCP | | 0.10 | 0.25 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 597 |
| Street: | 110 Sheffield Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 578

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 0.75 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 578 | 06' 02" | 8 | VCP | | 0.05 | 0 | | | 0 | Inside drop |
| OUT TO | 5685 | 06' 03" | 8 | VCP | | 0.10 | 0 | | | 0 | |

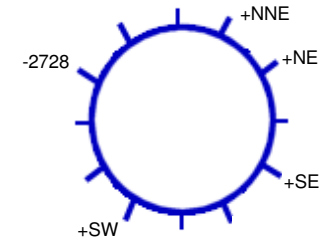
P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 598 |
| Street: | 23 Sims Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2728

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 05' 11" | 4 | CIP | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | NNE | 04' 11" | 4 | PVC | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | SE | 07' 04" | 6 | ACP | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | SW | 07' 11" | 4 | CIP | | 0 | 0 | | | 0 | Inside drop |
| OUT TO | 2728 | 09' 05" | 8 | VCP | | 0 | 0 | | | 0 | |

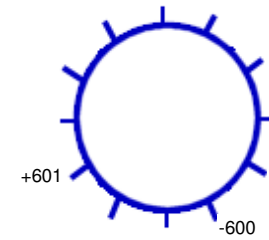
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 599 |
| Street: | Sims Avenue at Benson Street | | | Sub-System: | HS15 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 0.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 600

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 601 | 08' 02" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 600 | 08' 03" | 8 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 600 |
| Street: | Sims Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

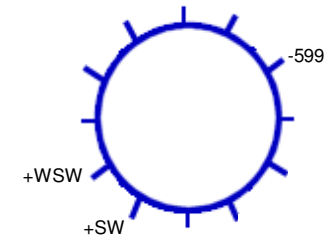
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 601 |
| Street: | 65 Benson Street | | | Sub-System: | HS15 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 0.5 |
| Cracked pavement surrounding frame | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 599

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | VCP | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

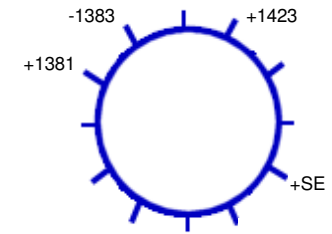
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 03' 11" | 6 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | WSW | 03' 11" | 8 | VCP | | 0.05 | 0 | | | 0 | |
| OUT TO | 599 | 04' 00" | 8 | VCP | | 0.05 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1382 |
| Street: | US Rt 1 Bypass North | | | Sub-System: | HS15 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1383

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|----------------------------------|--|----------------------------------|-------------|----------------|-----------|
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 4 In. | 30 X 2 X 0.3 = | 18.0 (SQFT) | Holes In Cover | 4 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Roots |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BLOCK | 2 | | | Weeping infiltration |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 09' 11" | 10 | VCP | | 0.10 | 0 | | | 0 | Service |
| IN FROM | 1381 | 11' 04" | 10 | VCP | | 1.00 | 0 | | | 0 | |
| IN FROM | 1423 | 03' 09" | UNK | UNK | | 0.25 | 0 | | | 0 | |
| OUT TO | 1383 | 11' 05" | 10 | VCP | | 1.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1383 |
| Street: | US Rt 1 Bypass | | | Sub-System: | HS15 |
| Inspection Date: | 6/30/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments: Overgrown easement

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

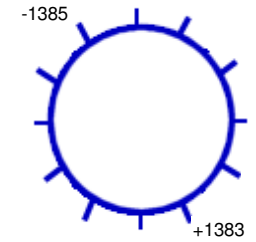
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1384 |
| Street: | Rt 1 Bypass near Islington Street | | | Sub-System: | HS15 |
| Inspection Date: | 7/13/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1385

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | STEEL | 1 | | | |
| WALLS | BLOCK | 2 | | | Deteriorating |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1383 | 11' 09" | 10 | VCP | | 3.00 | 0 | | | 0 |
| OUT TO | 1385 | 11' 09" | 10 | VCP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1423 |
| Street: | 217 Spinney Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|------------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2211 |
| Street: | Hampshire Road R.O.W. | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

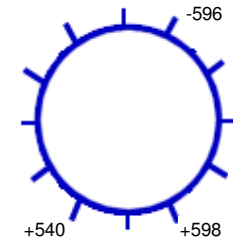
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2728 |
| Street: | Melbourne Street at Sims Avenue | | | Sub-System: | HS15 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 596

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken and loose bricks, missing mortar |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 540 | 09' 00" | 8 | VCP | | 1.00 | 0 | | | 0 |
| IN FROM | 598 | 09' 01" | 8 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 596 | 09' 02" | 8 | VCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

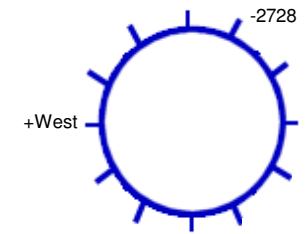
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Melbourne Street at Vine Street
 Inspection Date: 6/22/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 5401
 Sub-System: HS15



Ft. to DS MH #: 2728

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 10 X 10 X 0.9 = 90.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments: Homeowner states area is subject to ponding

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken and loose bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

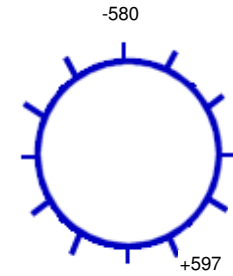
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 04' 10" | 8 | PVC | | 0.20 | 0 | | | 0 | |
| OUT TO | 2728 | 04' 11" | 8 | VCP | | 0.20 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5685 |
| Street: | 90 Sheffield Road | | | Sub-System: | HS15 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 580

| | | | | | |
|---|-------------------------------|--|--|----------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 1 SIZE (In) 0.75 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 3 | 0.05 | | Mineral deposits |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 597 | 06' 07" | 8 | VCP | | 0.25 | 0 | | | 0 | |
| OUT TO | 580 | 06' 08" | 8 | VCP | | 0.25 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 4 |
| Street: | Kearsarge Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

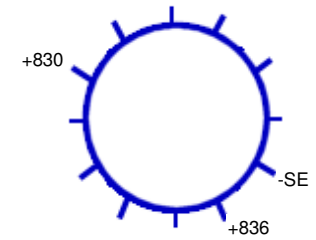
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|----|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 17 |
| Street: | Portsmouth Boulevard R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 5 X 3 X 0.9 = 13.5 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: SE

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 830 | 07' 01" | 10 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | 836 | 05' 08" | 14 | PVC | | 0 | 0 | | | 0 | |
| OUT TO | SE | 07' 02" | 10 | PVC | | 0.25 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 64 |
| Street: | Market Street R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|-------------------------------|-----------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Could not open, very large cover

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 65 |
| Street: | Market Street R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | X X 0.9 = | (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

Ft. to DS MH #:

General Comments: Could not open, very large cover

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

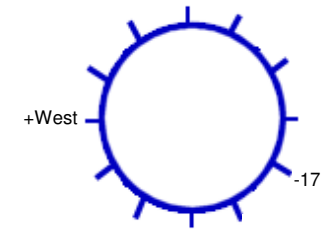
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Portsmouth Boulevard R.O.W.
 Inspection Date: 6/26/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 830
 Sub-System: LD1



Ft. to DS MH #: 17

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Deteriorating |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BRICK | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 05' 01" | 10 | VCP | | 0.25 | 1.00 | | | 0 | |
| OUT TO | 17 | 05' 01" | 10 | PVC | | 0.25 | 0 | | | 0 | |

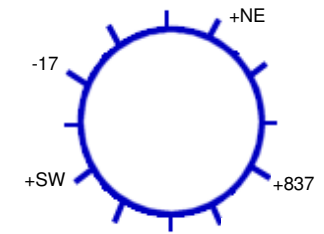
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 836 |
| Street: | 20 Dunlan Way | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 100 X 2 X 0.3 = 60.0 (SQFT) | | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 17

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 2 | | | Offset 6" |
| CORBEL | PARGED | 1 | | | |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 10' 06" | 8 | UNK | | 1.00 | 0 | | | 0 | |
| IN FROM | SW | 10' 03" | 10 | VCP | | 1.00 | 0 | | | 0 | |
| IN FROM | 837 | 10' 06" | 16 | VCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 17 | 10' 06" | 36 | VCP | | 1.00 | 0 | | | 0 | |

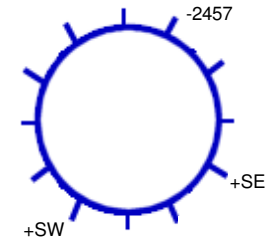
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 837 |
| Street: | Dunlan Way and Osprey Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 75 X 2 X 0.3 = 45.0 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 2457

General Comments: Map shows connection to MH 836, but no connection found

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | STEEL | 2 | | | Rusted |
| WALLS | BRICK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM SE | | 06' 10" | 10 | VCP | | 0.25 | 1.00 | | | 0 |
| IN FROM SW | | 06' 08" | 10 | VCP | | 0.25 | 1.00 | | | 0 |
| OUT TO | 2457 | 06' 10" | 10 | PVC | | 0.50 | 0.50 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

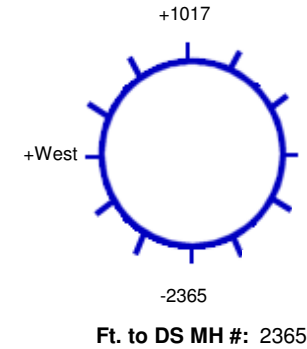
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 985 |
| Street: | Market Street at Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|---|-----------------------|---------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 5 | X | 5 | X 0.9 = 22.5 (SQFT) |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | Holes In Cover | |
| | | X | X | 0.3 | = (SQFT) |
| | | | | QTY | SIZE (In) |
| | | | | -- | -- |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Wall cracked between top and bottom of outside drop |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | West | 09' 00" | 10 | ACP | | 2.50 | 0 | | | 0 | Outside drop |
| IN FROM | 1017 | 09' 00" | 14 | ACP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2365 | 09' 01" | 14 | ACP | | 5.00 | 0 | | | 0 | |

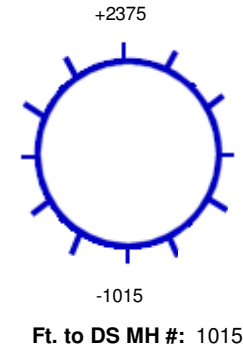
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1014 |
| Street: | Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|------------|------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 0.5 In. | | | | |
| | | Drainage Area 1: | | | |
| | | 2 X 2 X 0.3 = 1.2 (SQFT) | | | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |
| | | Holes In Cover | QTY | SIZE (In) | |
| | | | 4 | 1 | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2375 | 06' 10" | 14 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 1015 | 06' 11" | 14 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

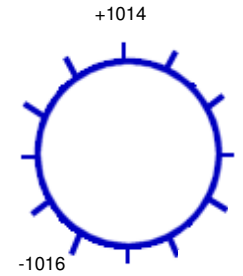
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1015 |
| Street: | Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 4 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | 4 | X 4 X 0.3 = 4.8 (SQFT) | | |



Ft. to DS MH #: 1016

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1014 | 06' 02" | 14 | PVC | | 3.00 | 0 | | | 0 |
| OUT TO | 1016 | 06' 03" | 14 | PVC | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

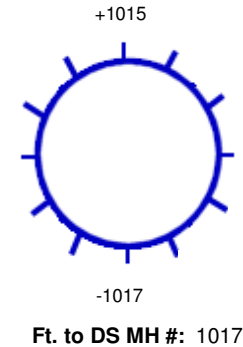
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1016 |
| Street: | 1 Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 4 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1015 | 08' 01" | 14 | PVC | | 3.50 | 0 | | | 0 |
| OUT TO | 1017 | 08' 02" | 14 | PVC | | 3.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

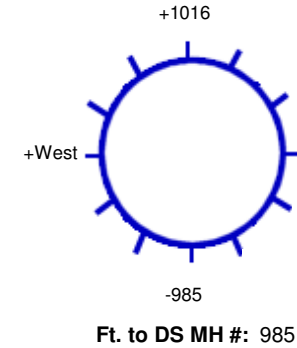
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
Street: Chase Drive at Michael Succi Drive
Inspection Date: 6/23/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1017
Sub-System: LD1



COVER CHARACTERISTICS / COMMENTS

Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: ABOVE 0.5 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL

Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 07' 01" | 6 | PVC | | 0.20 | 0 | | | 0 | |
| IN FROM | 1016 | 07' 06" | 14 | PVC | | 3.00 | 0 | | | 0 | |
| OUT TO | 985 | 07' 07" | 14 | PVC | | 3.00 | 0 | | | 0 | |

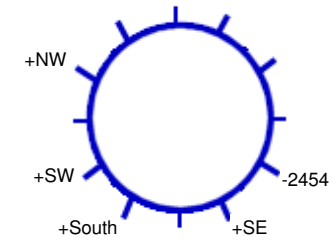
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2157 |
| Street: | 4 Dunlan Way R.O.W. Behind home | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 3 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY -- SIZE (In) -- | |
| | | Drainage Area 2: (if applicable) 50 X 3 X 0.3 = 45.0 (SQFT) | | | |



Ft. to DS MH #: 2454

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 2 | | | Offset 3" |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM NW | | 11' 05" | 10 | PVC | | 3.00 | 0 | | | 0 | |
| IN FROM SE | | 07' 04" | 4 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM South | | 04' 01" | 4 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM SW | | 05' 11" | 4 | PVC | | 0 | 0 | | | 0 | Service |
| OUT TO | 2454 | 11' 05" | 10 | PVC | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



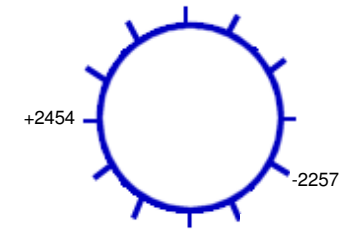
Municipality: Portsmouth, NH
 Street: 8 Dunlan Way R.O.W. Behind home
 Inspection Date: 6/26/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **2158**
 Sub-System: **LD1**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 2 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



Ft. to DS MH #: 2257

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2454 | 12' 05" | 14 | PVC | | 1.00 | 0 | | | 0 | Heavy ragging |
| OUT TO | 2257 | 12' 10" | 12 | PVC | | 1.00 | 0 | | | 0 | |

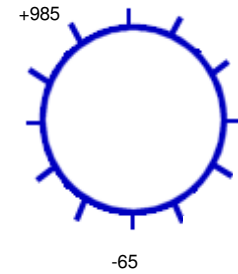
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2365 |
| Street: | Market Street at Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 0.5 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 65

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 985 | 06' 11" | 15 | ACP | | 3.50 | 0 | | | 0 |
| OUT TO | 65 | 07' 02" | 15 | ACP | | 3.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

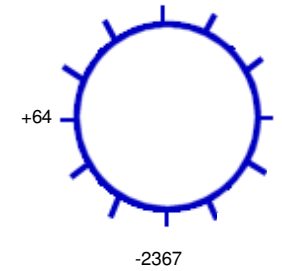
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2366 |
| Street: | Market Street at Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



Ft. to DS MH #: 2367

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Missing bricks |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

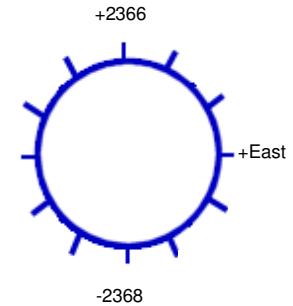
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 64 | 15' 09" | 15 | CIP | | 2.00 | 0 | | | 0 | Inside drop |
| OUT TO | 2367 | 17' 01" | 15 | ACP | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2367 |
| Street: | Albacore Museum Access Pump Station | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2368

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 7 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Cracked and missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | East | 15' 07" | 14 | PVC | | 2.00 | 2.00 | | | 0 |
| IN FROM | 2366 | 15' 08" | 14 | PVC | | 5.00 | 0 | | | 0 |
| OUT TO | 2368 | 15' 09" | 14 | PVC | | 5.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

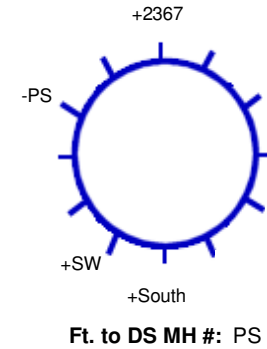
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2368 |
| Street: | Albacore Museum Access Pump Station | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|-------|---|------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: ABOVE | 6 In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

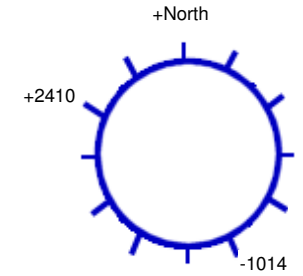
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 09' 08" | 10 | PVC | | 0.50 | 0 | | | 0 | |
| IN FROM | SW | 09' 08" | 10 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | 2367 | 17' 05" | 14 | ACP | | 4.00 | 0 | | | 0 | |
| OUT TO | PS | 17' 06" | 14 | ACP | | 4.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2375 |
| Street: | 9 Michael Succi Drive | | | Sub-System: | LD1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1014

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 4 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | North | 08' 01" | 6 | PVC | | 0.10 | 0 | | | 0 | Outside drop |
| IN FROM | 2410 | 08' 05" | 12 | PVC | | 3.00 | 0 | | | 0 | Outside drop |
| OUT TO | 1014 | 08' 08" | 14 | PVC | | 3.00 | 0 | | | 0 | |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2410 |
| Street: | Michael Succi Drive Railroad Easement | | | Sub-System: | LD1 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|---|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 1 In. | 4 | X 4 X 0.3 = 4.8 (SQFT) | Holes In Cover | 4 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

Ft. to DS MH #:

General Comments: Could not open, very large cover

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2414 |
| Street: | Michael Succi Drive Railroad Easement | | | Sub-System: | LD1 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments: Overgrown easement

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2418 |
| Street: | Michael Succi Drive Railroad Easement | | | Sub-System: | LD1 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|------------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments: Overgrown easement

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2426 |
| Street: | Kearsarge Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



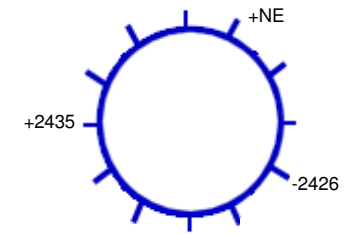
Municipality: Portsmouth, NH
 Street: Kearsarge Way R.O.W.
 Inspection Date: 6/26/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2430
 Sub-System: LD1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 22 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



Ft. to DS MH #: 2426

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 13' 9" | 10 | PVC | | 4.00 | 0 | | | 0 | Outside drop |
| IN FROM | 2435 | 13' 09" | 10 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 2426 | 14' 03" | 14 | PVC | | 5.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2435 |
| Street: | Kearsarge Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

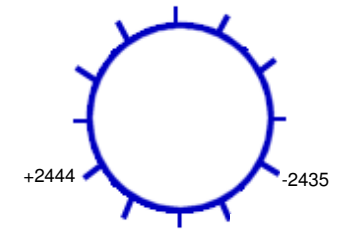
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2440 |
| Street: | Kearsarge Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 32 | X 32 X 0.3 = 307.2 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2435

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

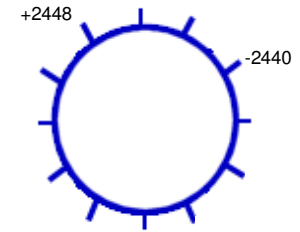
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2444 | 08' 04" | 10 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 2435 | 08' 04" | 10 | PVC | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2444 |
| Street: | Spinnaker Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2440

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 2 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: -- SIZE (In): -- | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2448 | 09' 05" | 10 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 2440 | 09' 06" | 10 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

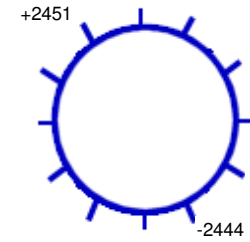
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2448 |
| Street: | Spinnaker Way R.O.W. | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 1 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2444

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

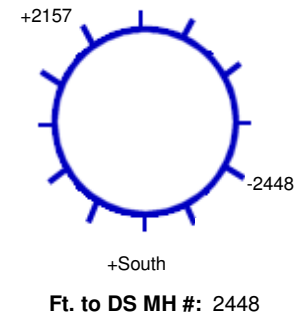
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2451 | 11' 09" | 10 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 2444 | 11' 10" | 10 | PVC | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2451 |
| Street: | 146 Spinnaker Way R.O.W. Behind home | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 3 X 0.3 = 9.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

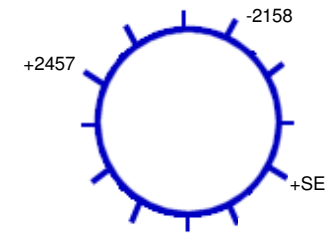
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 06' 02" | 6 | PVC | | 0.10 | 0 | | | 0 | Service |
| IN FROM | 2157 | 12' 03" | 10 | PVC | | 2.50 | 0 | | | 0 | |
| OUT TO | 2448 | 12' 04" | 10 | PVC | | 2.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2454 |
| Street: | 8 Dunlan Way | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2158

| | | | | | |
|---|-------------------------------|-------------------------------|-----------------|------------|---|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | 3 | X | 3 |
| | | | X | 0.9 | = |
| | | | | 8.1 (SQFT) | |
| | | Drainage Area 2: | (if applicable) | | |
| | | X | X | 0.3 | = |
| | | | | (SQFT) | |
| | | Holes In Cover | QTY | SIZE (In) | |
| | | | -- | -- | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | CNI | 0 | | | Holding water |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SE | 14' 05" | UNK | UNK | | 0 | 0 | | | 0 |
| IN FROM | 2457 | 14' 05" | 14 | PVC | | 2.50 | 0 | | | 0 |
| OUT TO | 2158 | 14' 05" | 14 | PVC | | 2.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

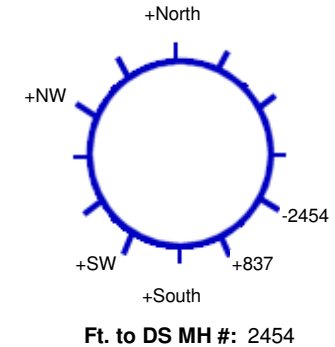
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2457 |
| Street: | 12 Dunlan Way | | | Sub-System: | LD1 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 6 X 3 X 0.9 = | 16.2 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 05' 02" | 6 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | NW | 12' 10" | 10 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | South | 07' 10" | 12 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | SW | 13' 00" | 12 | PVC | | 0.50 | 0 | | | 0 | |
| IN FROM | 837 | 06' 08" | 10 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 2454 | 13' 01" | 10 | PVC | | 1.50 | 0 | | | 0 | |

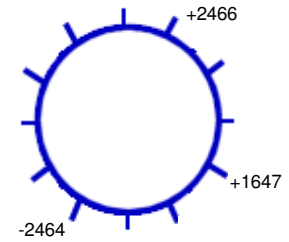
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1646 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 3 In. | 2 X 2 X 0.3 = 1.2 (SQFT) | | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2464

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | 2 | | Water leaking in from bottom of wall at floor |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1647 | 04' 04" | 8 | PVC | | 0.50 | 0 | | | 0 |
| IN FROM | 2466 | 04' 06" | 10 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 2464 | 04' 09" | 10 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

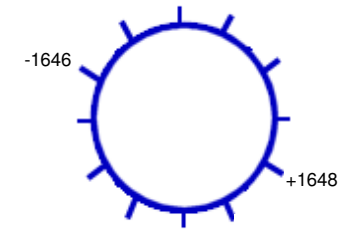
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1647 |
| Street: | 31 Nathaniel Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

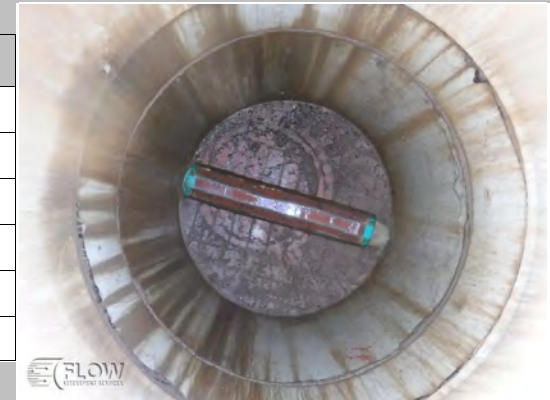


Ft. to DS MH #: 1646

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1648 | 08' 01" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 1646 | 08' 02" | 8 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

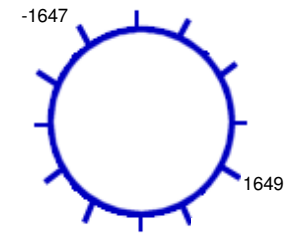
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1648 |
| Street: | 63 Nathaniel Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

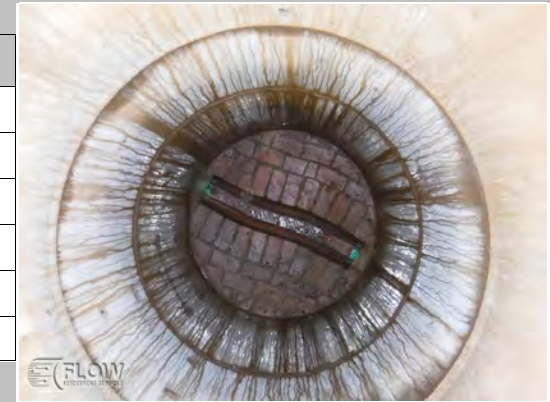


Ft. to DS MH #: 1647

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| CA TO | 1649 | 09' 01" | 8 | PVC | | 0.10 | 0 | | | 0 |
| OUT TO | 1647 | 09' 03" | 8 | PVC | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

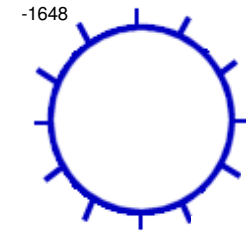
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1649 |
| Street: | 90 Nathaniel Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 1648

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 1648 | 05' 04" | 8 | PVC | | 0.10 | 0.20 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

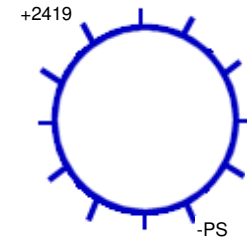
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2415 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: PS

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 3 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2419 | 07' 07" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | PS | 07' 08" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

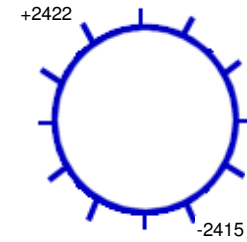
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Nathaniel Drive R.O.W.
 Inspection Date: 6/22/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2419
 Sub-System: LR3



Ft. to DS MH #: 2415

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 10 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2422 | 09' 06" | 10 | ACP | | 1.50 | 0 | | | 0 | |
| OUT TO | 2415 | 09' 06" | 10 | ACP | | 1.50 | 0 | | | 0 | |

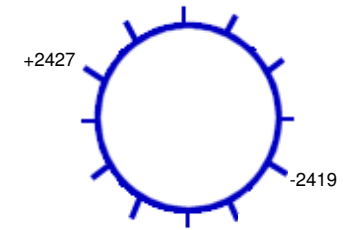
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2422 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 6 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2419

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2427 | 09' 06" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2419 | 09' 07" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

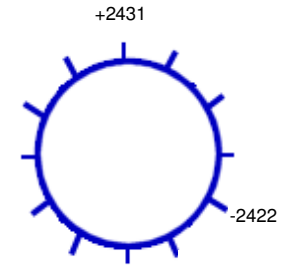
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2427 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2422

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 1 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2 SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2431 | 07' 09" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2422 | 07' 10" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

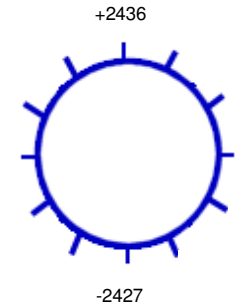
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2431 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 24 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2429

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2436 | 07' 07" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2427 | 07' 09" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

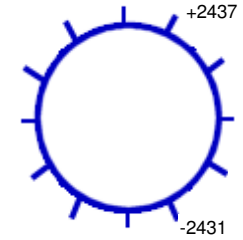
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2436 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2431

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2437 | 06' 05" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2431 | 06' 06" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

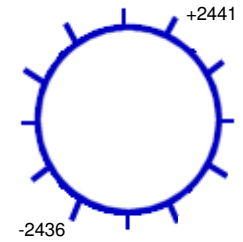
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2437 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2436

| | | | | | |
|---|-------------------------------|---|--|---|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 14 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover QTY: 2, SIZE (In): 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2441 | 07' 06" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2436 | 07' 07" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

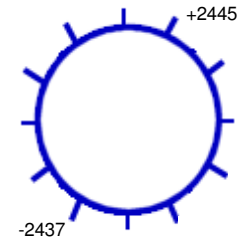
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2441 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2437

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2445 | 06' 06" | 10 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2437 | 06' 07" | 10 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

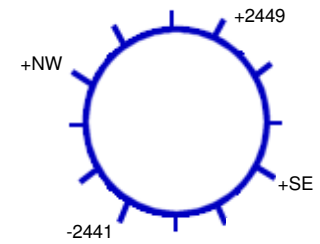
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2445 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2441

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 30 In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cover cracked | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

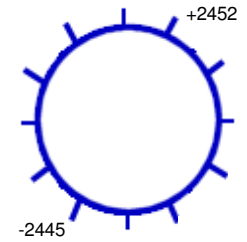
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 07' 03" | 8 | ACP | | 0 | 0.20 | | | 0 | |
| IN FROM | SE | 07' 03" | 6 | ACP | | 0 | 1.00 | | | 0 | |
| IN FROM | 2449 | 07' 06" | 10 | PVC | | 1.50 | 0 | | | 0 | |
| OUT TO | 2441 | 07' 07" | 10 | ACP | | 1.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2449 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2445

| | | | | | |
|---|-------------------------------|---|-----|-----------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 14 In. | | | | |
| | | Drainage Area 1: | | | |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |
| | | Holes In Cover | QTY | SIZE (In) | |
| | | | 2 | 1 | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Loose |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2452 | 04' 10" | 10 | PVC | | 1.50 | 0 | | | 0 | |
| OUT TO | 2445 | 04' 11" | 10 | PVC | | 1.50 | 0 | | | 0 | |

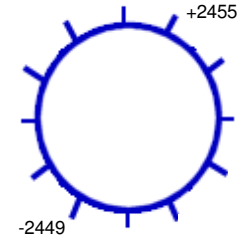
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2452 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 12 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2449

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2455 | 06' 06" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 2449 | 06' 06" | 10 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

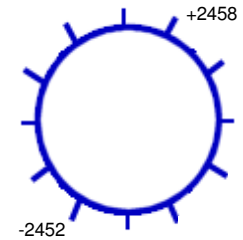
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2455 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2452

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Mineral deposits |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2458 | 06' 05" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 2452 | 06' 07" | 10 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

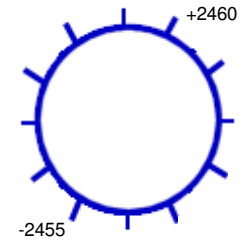
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2458 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 14 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Cover broke when replacing | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2455

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2460 | 08' 06" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 2455 | 08' 07" | 10 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

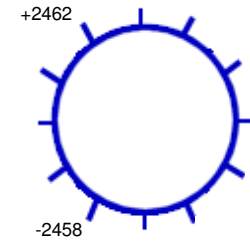
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2460 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2458

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2462 | 06' 06" | 10 | PVC | | 2.50 | 0 | | | 0 | |
| OUT TO | 2458 | 06' 07" | 10 | PVC | | 2.50 | 0 | | | 0 | |

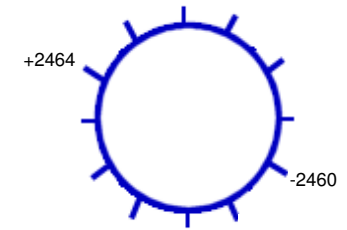
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2462 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 16 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2460

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2464 | 06' 06" | 10 | PVC | | 1.00 | 0 | | | 0 |
| OUT TO | 2460 | 06' 07" | 10 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

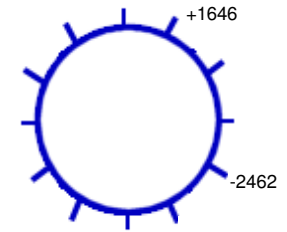
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2464 |
| Street: | Nathaniel Drive R.O.W. | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 8 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2462

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1646 | 05' 06" | 10 | PVC | | 1.00 | 0 | | | 0 |
| OUT TO | 2462 | 05' 07" | 10 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

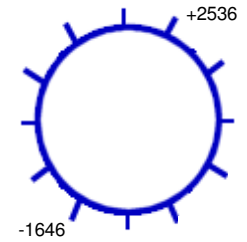
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2466 |
| Street: | 35 Nathaniel Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1646

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2536 | 09' 00" | 10 | ACP | | 3.00 | 0.25 | | | 0 |
| OUT TO | 1646 | 09' 02" | 10 | ACP | | 3.00 | 0.25 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

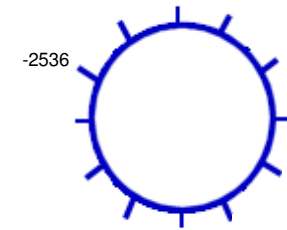
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2534 |
| Street: | 29 Mariette Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 | X 4 X 0.9 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2536

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2536 | 06' 10" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

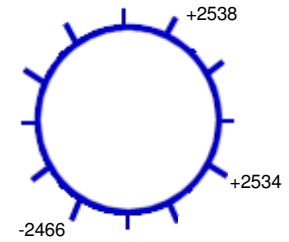
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2536 |
| Street: | Mariette Drive at Nathaniel Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2466

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 10 X 0.9 = 27.0 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2534 | 09' 02" | 8 | ACP | | 0.50 | 0 | | | 0 | |
| IN FROM | 2538 | 09' 02" | 10 | ACP | | 2.00 | 0 | | | 0 | |
| OUT TO | 2466 | 09' 02" | 10 | ACP | | 2.00 | 0 | | | 0 | |

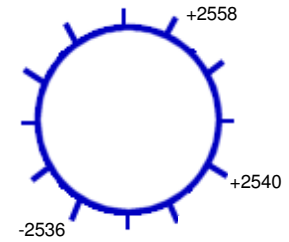
Flow Assessment Services, LLC. Structure Inspection Log

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| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2538 |
| Street: | 41 Mariette Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 6 X 0.9 = 16.2 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2536

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2540 | 10' 10" | 8 | ACP | | 1.00 | 1.00 | | | 0 | Outside drop |
| IN FROM | 2558 | 10' 10" | 12 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2536 | 10' 11" | 12 | ACP | | 3.00 | 1.00 | | | 0 | |

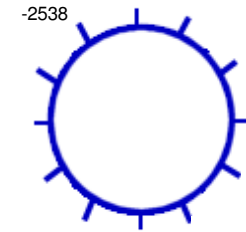
Flow Assessment Services, LLC. Structure Inspection Log

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| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2540 |
| Street: | 11 Denise Street | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 4 X 0.9 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2538

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| OUT TO | 2538 | 07' 07" | 8 | ACP | | 0 | 0 | | | 0 | Standing flow |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

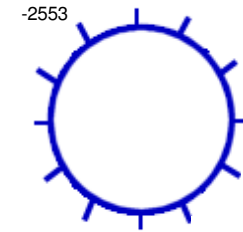
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2551 |
| Street: | 2 Pamela Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 5 X 0.9 = 13.5 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2553

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2553 | 07' 00" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2553 |
| Street: | Pamela Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments: Possibly drain manhole - found drain manhole where sewer was marked

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: **In.** **Inside Frame Dia.:** **In.**

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: **NONE EVIDENT** **Currently:** **Feet** **Marks To:** **Feet**

LINE CONDITIONS

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Image Path: <input type="text"/> | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|----------------------------------|---------------|
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|----------------------------------|---------------|

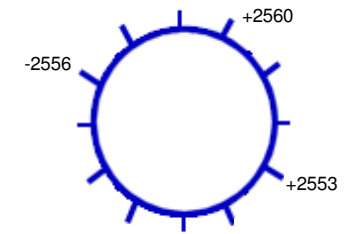
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2554 |
| Street: | 10 Mariette Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2556

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2553 | 15' 06" | 8 | ACP | | 0.20 | 0 | | | 0 | Outside drop |
| IN FROM | 2560 | 16' 06" | 12 | ACP | | 2.50 | 0 | | | 0 | |
| OUT TO | 2556 | 16' 07" | 12 | ACP | | 3.50 | 0 | | | 0 | |

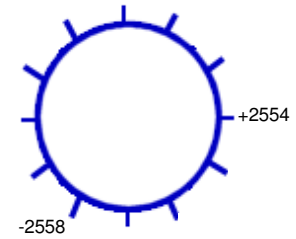
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2556 |
| Street: | 47 Mariette Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 4 X 0.9 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2558

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2554 | 12' 09" | 12 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2558 | 12' 09" | 12 | ACP | | 3.00 | 0 | | | 0 | |

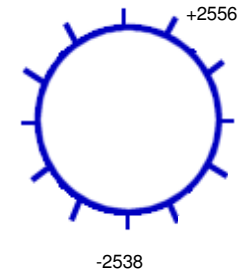
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2558 |
| Street: | 45 Mariette Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 6 X 0.9 = 16.2 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2538

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2556 | 12' 00" | 12 | ACP | | 3.00 | 0 | | | 0 |
| OUT TO | 2538 | 12' 01" | 12 | ACP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

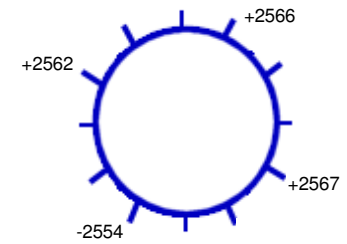
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2560 |
| Street: | Mariette Drive at Ocean Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2554

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 9 X 0.9 = 24.3 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2562 | 16' 03" | 8 | ACP | | 0.50 | 0 | | | 0 | |
| IN FROM | 2566 | 16' 05" | 8 | ACP | | 1.25 | 0 | | | 0 | |
| IN FROM | 2567 | 16' 04" | 8 | ACP | | 0.20 | 0 | | | 0 | |
| OUT TO | 2554 | 16' 06" | 12 | ACP | | 2.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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|------------------|----------------|------------|-------|--------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2562 |
| Street: | Ocean Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | | | | |
|---|----------------------------------|---|-----|---|----------------|-----|-----------|--------|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | Holes In Cover | QTY | SIZE (In) | |
| | Drainage Area 1: | | | | | | | |
| | X | X | 0.9 | = | | | | (SQFT) |
| | Drainage Area 2: (if applicable) | | | | | | | |
| | X | X | 0.3 | = | (SQFT) | | | |

Ft. to DS MH #:

| | |
|-------------------|--|
| General Comments: | |
|-------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

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|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2564 |
| Street: | Ocean Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2566 |
| Street: | 204 Ocean Road Behind home | | | Sub-System: | LR3 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | |
|---|--|---|
| COVER CHARACTERISTICS / COMMENTS | COVER INFLOW POTENTIAL | |
| Buried: <input checked="" type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: X X 0.9 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | Holes In Cover QTY SIZE (In) -- -- |

Ft. to DS MH #:

General Comments: Buried in grass

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

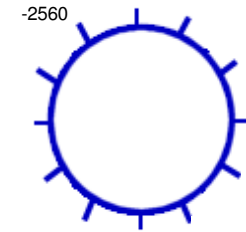
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2567 |
| Street: | 65 Ocean Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 10 | X 10 X 0.9 = 90.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2560

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2560 | 09' 00" | 8 | ACP | | 0 | 1.50 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

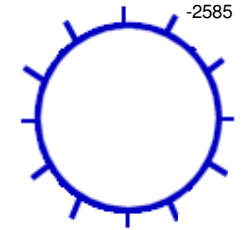
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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|-------------------------|--------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2579 |
| Street: | Suzanne Drive near Ocean Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



Ft. to DS MH #: 2585

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2585 | 08' 01" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

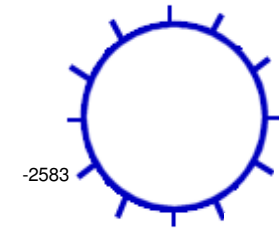
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2581 |
| Street: | 70 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 5 X 0.9 = 13.5 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2583

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2583 | 06' 04" | 8 | ACP | | 0 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

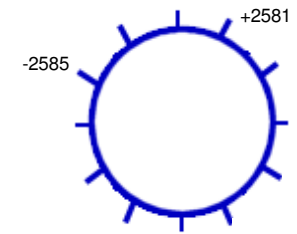
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2583 |
| Street: | 74 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2585

| | | | | | |
|---|-------------------------------|-------------------------------|---|-----------------|---------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 8 | X | 4 | X 0.9 = 28.8 (SQFT) |
| Cracked pavement surrounding frame | | Drainage Area 2: | | (if applicable) | |
| | | X | X | 0.3 | = (SQFT) |
| | | Holes In Cover | | QTY | SIZE (In) |
| | | | | 2 | 1 |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2581 | 06' 02" | 8 | ACP | | 2.00 | 0 | | | 0 | Standing flow |
| OUT TO | 2585 | 06' 03" | 8 | ACP | | 2.00 | 0 | | | 0 | |

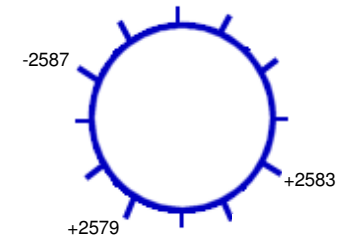
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2585 |
| Street: | 47 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 X 4 X 0.9 = | 10.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2587

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2579 | 08' 02" | 8 | ACP | | 1.00 | 0.10 | | | 0 | Blockage of grease and rags cleared upon arrival, flow depth post clean: 0.1 |
| IN FROM | 2583 | 08' 02" | 8 | ACP | | 7.00 | 0 | | | 0 | Blockage of grease and rags cleared upon arrival, flow depth post clean: 0.2" |
| OUT TO | 2587 | 08' 02" | 8 | ACP | | 0 | 0 | | | 0 | Blockage of grease and rags cleared upon arrival, flow depth post clean: 0.2" |

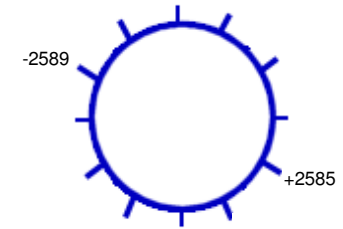
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2587 |
| Street: | 4 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.25 In. | 4 | X 5 X 0.9 = 18.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2589

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2585 | 08' 07" | 8 | ACP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2589 | 08' 07" | 8 | ACP | | 0.25 | 0 | | | 0 | |

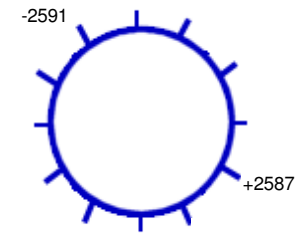
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2589 |
| Street: | 7 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2591

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

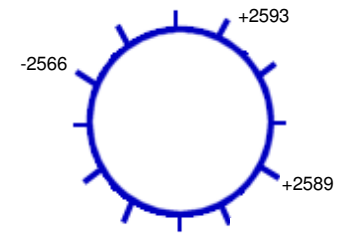
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2587 | 08' 08" | 8 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | 2591 | 08' 07" | 8 | ACP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2591 |
| Street: | 18 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2566

| | | | | | |
|---|--|---|--------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 5 | X 20 X 0.9 = 90.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Cracked and missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2589 | 09' 02" | 8 | ACP | | 0.50 | 0 | | | 0 | Outside drop |
| IN FROM | 2593 | 09' 02" | 8 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2566 | 09' 03" | 8 | ACP | | 3.00 | 0 | | | 0 | |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

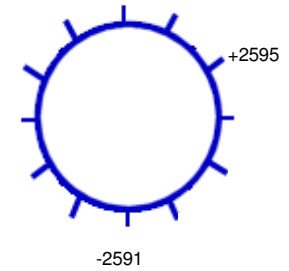
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2593 |
| Street: | 22 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 6 | X 8 X 0.9 = 43.2 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2591

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2595 | 07' 01" | 8 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | 2591 | 07' 01" | 8 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

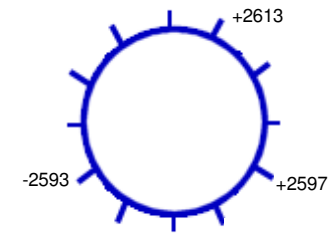
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2595 |
| Street: | 24 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 15 | X 8 X 0.9 = 108.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2593

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2597 | 07' 02" | 8 | ACP | | 0 | 0 | | | 0 | |
| IN FROM | 2613 | 07' 02" | 8 | ACP | | 0.50 | 0 | | | 0 | |
| OUT TO | 2593 | 07' 03" | 8 | ACP | | 0.50 | 0 | | | 0 | |

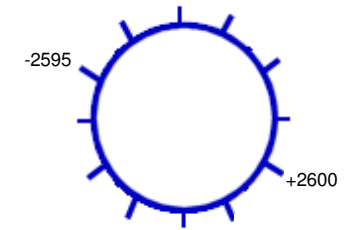
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2597 |
| Street: | 21 Wallis Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 8 | X 5 X 0.9 = 36.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2595

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2600 | 07' 02" | 8 | ACP | | 0.50 | 0 | | | 0 | Slow flow |
| OUT TO | 2595 | 07' 04" | 8 | ACP | | 0.50 | 0 | | | 0 | Slow flow |

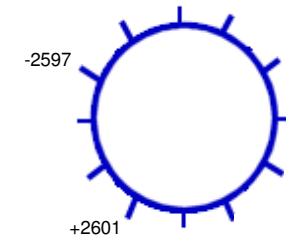
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2600 |
| Street: | 12 Wallis Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|-----|----------------------------------|-------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 | X 4 X 0.9 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2597

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2601 | 07' 00" | 8 | ACP | | 0.50 | 0 | | | 0 | Standing flow |
| OUT TO | 2597 | 07' 01" | 8 | ACP | | 0.50 | 0 | | | 0 | Standing flow |

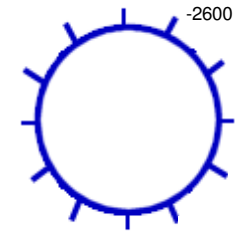
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2601 |
| Street: | 14 Wallis Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

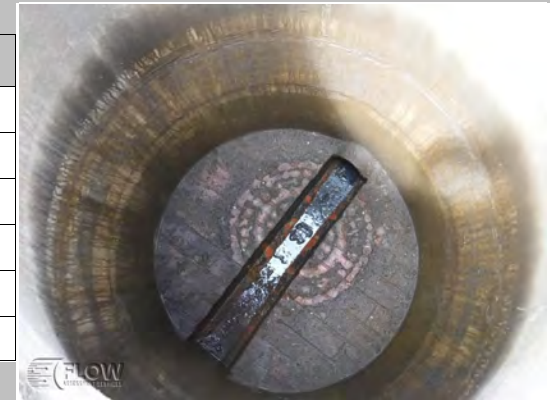


Ft. to DS MH #: 2600

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2600 | 06' 08" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

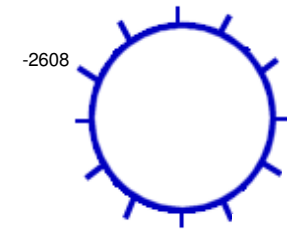
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2607 |
| Street: | 33 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 4 X 3 X 0.9 = 10.8 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2608

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2608 | 06' 07" | 8 | VCP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

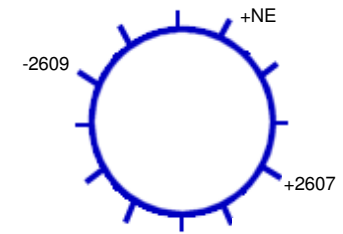
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2608 |
| Street: | 29 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2609

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 8 | X 8 X 0.9 = 57.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 3 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 06' 03" | 8 | ACP | | 0.50 | 0.50 | | | 0 | Standing flow |
| IN FROM | 2607 | 06' 03" | 8 | ACP | | 0.50 | 0 | | | 0 | Standing flow |
| OUT TO | 2609 | 06' 04" | 8 | ACP | | 0.50 | 0 | | | 0 | Standing flow |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

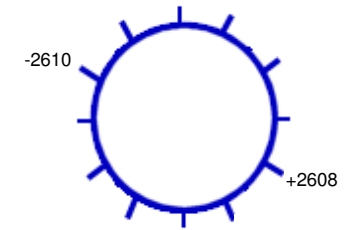
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2609 |
| Street: | 23 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2610

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 6 X 4 X 0.9 = | 21.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

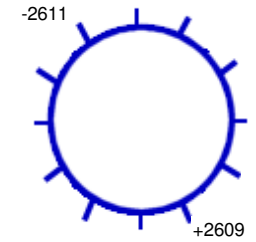
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2608 | 07' 08" | 8 | ACP | | 1.25 | 0 | | | 0 | |
| OUT TO | 2610 | 07' 07" | 8 | ACP | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2610 |
| Street: | 19 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2611

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2609 | 08' 07" | 8 | ACP | | 0.50 | 0 | | | 0 |
| OUT TO | 2611 | 08' 08" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

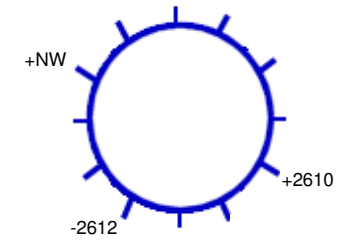
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2611 |
| Street: | 36 Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2612

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 06' 06" | 8 | ACP | | 0 | 2.00 | | | 0 |
| IN FROM | 2610 | 06' 06" | 8 | ACP | | 0.50 | 0 | | | 0 |
| OUT TO | 2612 | 06' 07" | 8 | ACP | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

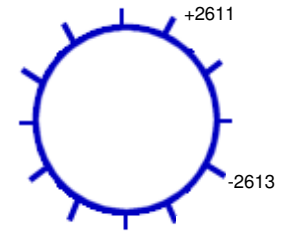
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2612 |
| Street: | Simmons Road at Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2613

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 8 X 4 X 0.9 = 28.8 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 1.2 Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2611 | 05' 01" | 8 | ACP | | 0.30 | 0 | | | 0 |
| OUT TO | 2613 | 05' 01" | 8 | ACP | | 0.30 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

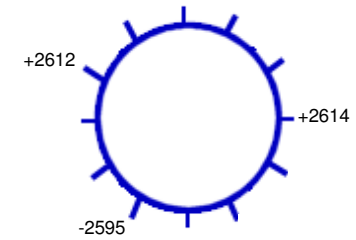
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2613 |
| Street: | Simmons Road at Suzanne Drive | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 X 10 X 0.9 = | 27.0 (SQFT) | Holes In Cover | 2 1 |
| Cover warped | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2595

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: Feet **Currently:** Feet **Marks To:** 0.8 Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2612 | 08' 03" | 8 | ACP | | 0.50 | 0 | | | 0 |
| IN FROM | 2614 | 08' 03" | 8 | ACP | | 0 | 0 | | | 0 |
| OUT TO | 2595 | 08' 03" | 8 | ACP | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

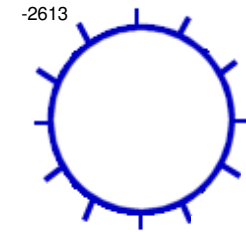
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2614 |
| Street: | 8 Simmons Road | | | Sub-System: | LR3 |
| Inspection Date: | 6/21/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 6 X 0.9 = 16.2 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2613

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2613 | 06' 07" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

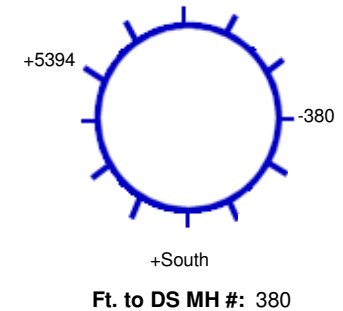
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 378 |
| Street: | Greenleaf Woods Drive Parking lot near dumpster | | | Sub-System: | LR4 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 4 | | | Running infiltration |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 14' 11" | 10 | UNK | | 0.50 | 0 | | | 0 | |
| IN FROM | 5394 | 14' 10" | 10 | RCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 380 | 15' 02" | 14 | RCP | | 2.00 | 0 | | | 0 | |

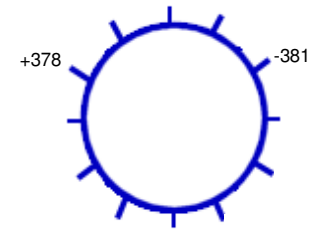
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 380 |
| Street: | Greenleaf Woods Drive | | | Sub-System: | LR4 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 20 X 0.9 = 360.0 (SQFT) | Holes In Cover | 2 1.25 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 381

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration, mineral deposits |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 378 | 13' 10" | 14 | UNK | | 2.50 | 0 | | | 0 | |
| OUT TO | 381 | 13' 10" | 14 | UNK | | 2.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



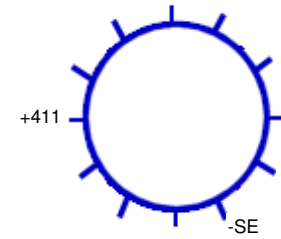
Municipality: Portsmouth, NH
 Street: Middle Road at Peverly Hill Road
 Inspection Date: 6/27/2017 Inspector: MS/JP Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 410
 Sub-System: LR4

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: SE

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 3 | | | Missing pieces |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 411 | 12' 09" | 8 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | SE | 12' 11" | 8 | ACP | | 1.00 | 0 | | | 0 | |

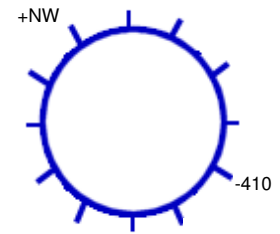
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 411 |
| Street: | Plains Avenue at Peverly Hill Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 410

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Heavy mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 11' 08" | 8 | ACP | | 1.00 | 0.50 | | | 0 |
| OUT TO | 410 | 11' 09" | 8 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

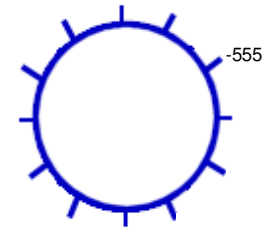
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 554 |
| Street: | Middle Road at Leavitt Avenue | | | Sub-System: | LR4 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 555

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-------------|-----------|-------------|-------|------------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/BLOCK | 3 | | | Broken blocks, heavy deterioration |
| STEPS | CAST | 3 | | | Corroded and missing |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Heavy mud and debris |
| INVERT | CNI | 0 | | | Heavy mud and debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| OUT TO | 555 | 05' 03" | 8 | VCP | | 0 | 0 | | | | Heavy debris |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

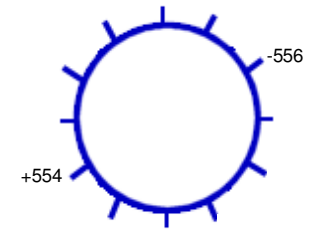
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 555 |
| Street: | Middle Road at Woodbury Avenue | | | Sub-System: | LR4 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 556

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 2 | | | 3 steps |
| WALLS | BLOCK | 2 | | | Roots |
| FLOOR | CNI | 0 | | | Heavy roots and dirt build up |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 554 | 08' 01" | 8 | VCP | | 1.00 | 1.00 | | | |
| OUT TO | 556 | 08' 02" | 8 | VCP | | 1.00 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

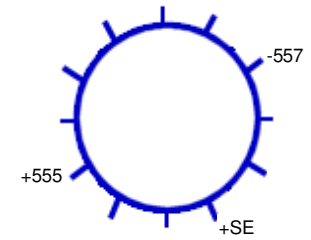
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 556 |
| Street: | 861 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 557

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | CAST | 2 | | | 4 steps |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | BRICK | 2 | | | Heavy mud |
| INVERT | BRICK | 3 | | | Heavy mud and debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 08' 08" | 8 | VCP | | 0 | 0 | | | 0 | |
| IN FROM | 555 | 08' 10" | 8 | VCP | | 1.00 | 0 | | | | |
| OUT TO | 557 | 08' 11" | 8 | VCP | | 1.00 | 0 | | | 0 | |

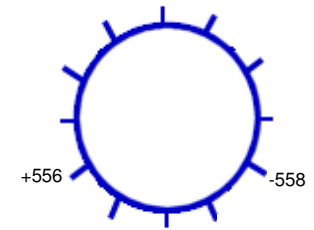
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 557 |
| Street: | 820 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 558

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 2 | | | 3 steps |
| WALLS | BLOCK | 2 | | | Missing mortar |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 556 | 07' 08" | 10 | VCP | | 0.25 | 0 | | | 0 |
| OUT TO | 558 | 07' 10" | 10 | VCP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

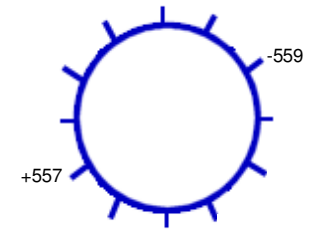
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 558 |
| Street: | 768 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 200 X 5 X 0.9 = | 900.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 559

General Comments: In gutterline

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 3 | | | Corroded |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 557 | 07' 07" | 8 | VCP | | 0.10 | 0 | | | 0 |
| OUT TO | 559 | 07' 08" | 8 | VCP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

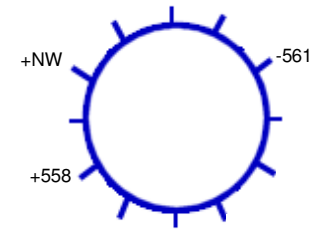
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 559 |
| Street: | 746 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 561

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 04' 11" | 6 | ACP | | 0 | 0 | | | 0 |
| IN FROM | 558 | 06' 01" | 8 | VCP | | 0.10 | 0 | | | 0 |
| OUT TO | 561 | 06' 02" | 8 | VCP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

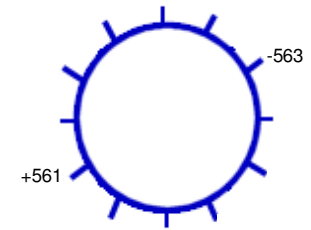
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 560 |
| Street: | Middle Road at entrance of The Chase Home | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.25 In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover QTY 2 SIZE (In) 1 | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 563

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 2 | | | Corroded |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 561 | 05' 06" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 563 | 05' 07" | 8 | VCP | | 0.50 | 0 | | | 0 | |

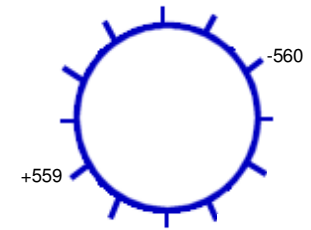
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 961 |
| Street: | 710 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.75 In. | Drainage Area 1: 4 X 4 X 0.9 = 14.4 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 560

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | BLOCK | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 559 | 05' 07" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 560 | 05' 08" | 8 | VCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2204 |
| Street: | Greenleaf Woods Drive | | | Sub-System: | LR4 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | |
|--|---|----------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | |
| | Drainage Area 1: | | QTY SIZE (In) |
| | X X 0.9 = (SQFT) | Holes In Cover | -- -- |
| | Drainage Area 2: (if applicable) | | |
| | X X 0.3 = (SQFT) | | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

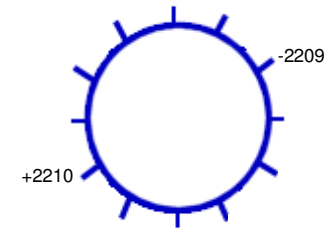
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | < NEW > | | | | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2208 |
| Street: | Middle Road at The Chase Home | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2209

| | | | | | |
|---|-------------------------------|---|----------------|------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.1 In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 4 X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 | 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2210 | 13' 03" | 8 | PVC | | 0.30 | 0 | | | 0 |
| OUT TO | 2209 | 13' 04" | 8 | PVC | | 0.30 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

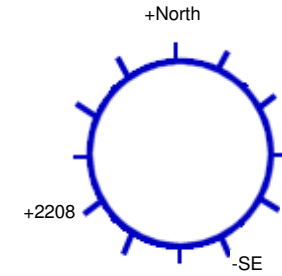
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2209 |
| Street: | 639 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: SE

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | North | 12' 09" | 4 | PVC | | 0 | 0 | | | 0 |
| IN FROM | 2208 | 14' 10" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | SE | 14' 11" | 8 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

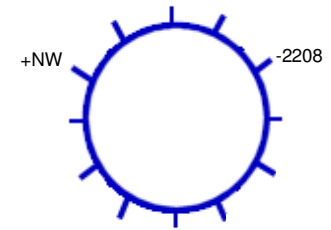
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2210 |
| Street: | 726 Middle Road | | | Sub-System: | LR4 |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2208

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 12' 09" | 8 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 2208 | 12' 10" | 8 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

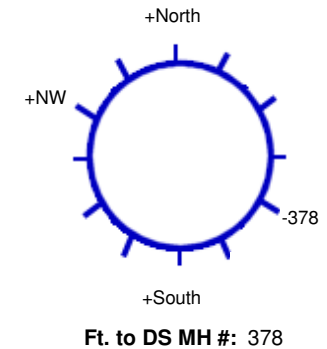
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5394 |
| Street: | Holiday Drive Back of basketball court | | | Sub-System: | LR4 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 12 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments: Inlets are not mapped

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Roots |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 08' 03" | 10 | ACP | | 0.50 | 0 | | | 0 | |
| IN FROM | NW | 08' 03" | 10 | ACP | | 0.50 | 0 | | | 0 | Outside drop |
| IN FROM | South | 08' 03" | 10 | ACP | | 0 | 0 | | | 0 | |
| OUT TO | 378 | 08' 04" | 10 | ACP | | 1.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



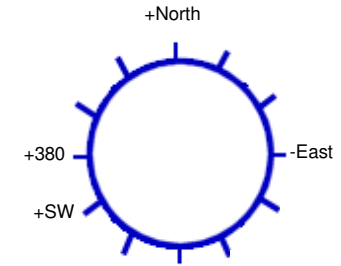
Municipality: Portsmouth, NH
Street: 103 Lafayette Drive Parking lot next to Goodwill
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 381
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



Ft. to DS MH #: East

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 10' 03" | 6 | PVC | | 0.10 | 0 | | | 0 | Service |
| IN FROM | SW | 10' 02" | 6 | PVC | | 0.10 | 0 | | | 0 | Service |
| IN FROM | 380 | 11' 10" | 10 | RCP | | 2.00 | 0 | | | 0 | |
| OUT TO | East | 11' 11" | 10 | RCP | | 2.50 | 0 | | | 0 | |

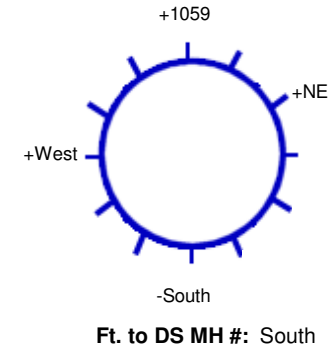
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 605 Lafayette Drive
 Inspection Date: 6/23/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **387**
 Sub-System: **LR5**



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 50 X 50 X 0.9 = 2250.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 06' 10" | 6 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM | West | 08' 11" | 12 | RCP | | 0 | 0 | | | 0 | |
| IN FROM | 1059 | 09' 00" | 14 | RCP | | 1.00 | 0 | | | 0 | |
| OUT TO | South | 09' 04" | 14 | RCP | | 1.00 | 0 | | | 0 | |

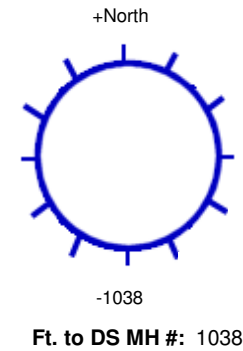
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1037 |
| Street: | 102 Ledgewood Drive | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 1.5 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Deteriorating mortar |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

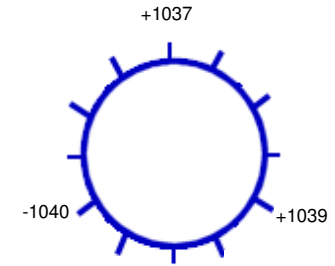
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 07' 01" | 8 | UNK | | 0.25 | 0.25 | | | 0 | |
| OUT TO | 1038 | 07' 01" | 8 | UNK | | 0.25 | 0.25 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1038 |
| Street: | 109 Ledgewood Drive | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1040

| | | | | | |
|---|--|----------------------------------|--|--------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: | AT In. | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover 1 2 | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1037 | 07' 11" | 8 | UNK | | 0.50 | 1.00 | | | 0 |
| IN FROM | 1039 | 08' 03" | 8 | UNK | | 0 | 1.00 | | | 0 |
| OUT TO | 1040 | 07' 11" | 8 | UNK | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

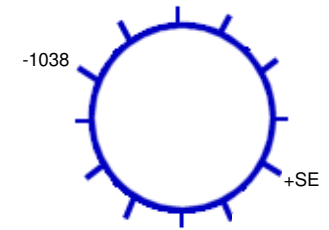
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1039 |
| Street: | 116 Ledgewood Drive | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 150 X 6 X 0.9 = | 810.0 (SQFT) | Holes In Cover | 1 2 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 1038

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SE | 05' 01" | 6 | ACP | | 0.25 | 0 | | | 0 |
| OUT TO | 1038 | 05' 02" | 8 | ACP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



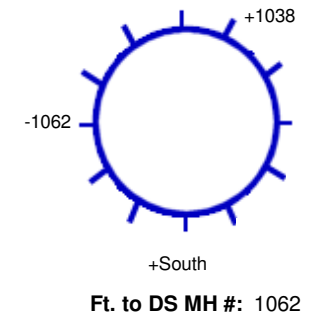
Municipality: Portsmouth, NH
Street: 110 Ledgewood Drive Parking lot
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1040
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: BELOW 2 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
Drainage Area 1:
 4 X 4 X 0.9 = 14.4 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

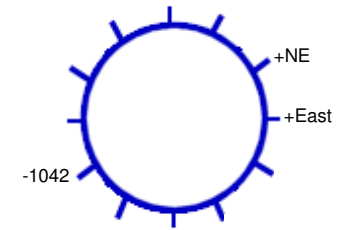
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 09' 04" | 6 | ACP | | 0 | 0.50 | | | 0 | |
| IN FROM | 1038 | 09' 04" | 10 | ACP | | 0.50 | 0 | | | 0 | |
| OUT TO | 1062 | 09' 05" | 10 | ACP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1041 |
| Street: | Portsmouth High School Parking lot | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1042

| | | | | | |
|---|--|---|--------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 50 | X 4 X 0.9 = 180.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Cracked |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | East | 05' 07" | 3 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM | NE | 06' 10" | 10 | PVC | | 0.25 | 0 | | | | Service |
| OUT TO | 1042 | 06' 11" | 10 | PVC | | 0.25 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1042 |
| Street: | Portsmouth High School fields | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|-------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1043 |
| Street: | Portsmouth High School fields | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

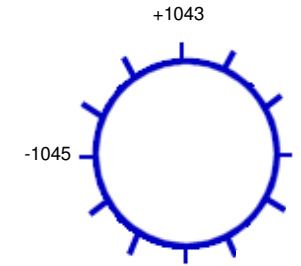
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
 Street: Ledgewood Drive R.O.W.
 Inspection Date: 6/23/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1044
 Sub-System: LR5



Ft. to DS MH #: 1045

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 1 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration and mineral deposits |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1043 | 05' 05" | 8 | ACP | | 0.25 | 1.50 | | | 0 | |
| OUT TO | 1045 | 05' 05" | 8 | ACP | | 0.25 | 1.50 | | | 0 | |

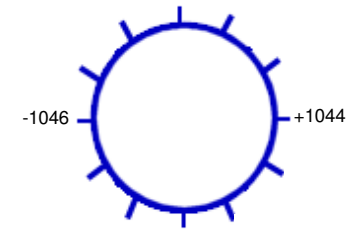
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Ledgewood Drive R.O.W.
 Inspection Date: 6/23/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1045
 Sub-System: LR5



Ft. to DS MH #: 1046

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: ABOVE 4 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration and mineral deposits |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1044 | 08' 02" | 10 | ACP | | 1.00 | 1.00 | | | 0 | |
| OUT TO | 1046 | 08' 03" | 10 | ACP | | 1.00 | 1.00 | | | 0 | |

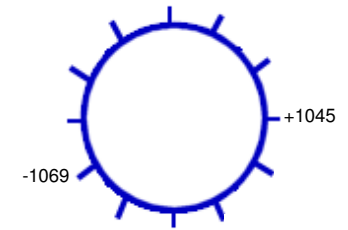
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1046 |
| Street: | Ledgewood Drive R.O.W. | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 12 In. | Drainage Area 1: 5 X 5 X 0.3 = 7.5 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 1069

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1045 | 10' 11" | 12 | VCP | | 1.00 | 1.00 | | | 0 |
| OUT TO | 1069 | 11' 00" | 12 | VCP | | 1.00 | 1.00 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

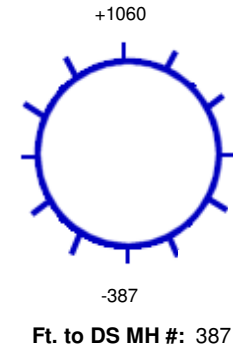
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1059 |
| Street: | Lafayette Road AAA Insurance | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.3 = 1.2 (SQFT) | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1060 | 10' 05" | 14 | RCP | | 1.00 | 0 | | | 0 |
| OUT TO | 387 | 10' 05" | 14 | RCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

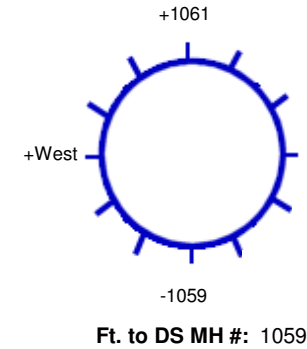
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: Lafayette Road
 Inspection Date: 6/23/2017 Inspector: MA Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 1060
 Sub-System: LR5



COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.3 = 1.2 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1.5

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 11' 00" | UNK | UNK | | 0 | 0 | | | 0 | Blocked |
| IN FROM | 1061 | 10' 05" | 12 | UNK | | 0.50 | 0 | | | 0 | |
| OUT TO | 1059 | 11' 01" | 14 | RCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

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|------------------|----------------|------------|----|--------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1061 |
| Street: | Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | |
|---|----------------------------------|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | |
| | Drainage Area 1: | | QTY SIZE (In) |
| | X X 0.9 = (SQFT) | Holes In Cover | -- -- |
| | Drainage Area 2: (if applicable) | | |
| | X X 0.3 = (SQFT) | | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



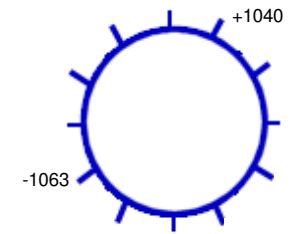
Municipality: Portsmouth, NH
Street: Lafayette Road Behind bowling alley
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1062
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: ABOVE 2 In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 30 X 2 X 0.3 = 18.0 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover **QTY** **SIZE (In)**
 1 1.5



Ft. to DS MH #: 1063

General Comments: Needs to be cleaned. Outgoing line does not match map

INTERNAL MANHOLE OBSERVATIONS **Clear Opening Dia.:** In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 3 | | | Mineral deposits |
| FLOOR | CNI | 0 | | | Sediment |
| INVERT | CNI | 0 | | | Sediment |



Surcharge From Invert: **Currently:** **Feet** **Marks To:** 9 **Feet**

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1040 | 13' 01" | 8 | UNK | | 0 | 0 | | | 0 |
| OUT TO | 1063 | 13' 06" | 8 | UNK | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



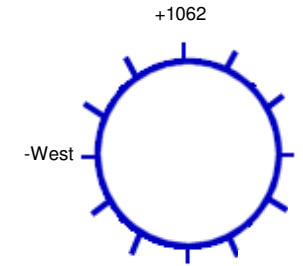
Municipality: Portsmouth, NH
Street: Ledgewood Drive AAA parking lot behind building near woods
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1063
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 40 X 4 X 0.3 = 48.0 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover **QTY** **SIZE (In)**
 1 1.5



Ft. to DS MH #: West

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1062 | 13' 01" | 10 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | West | 13' 02" | 10 | ACP | | 1.00 | 0 | | | 0 | |

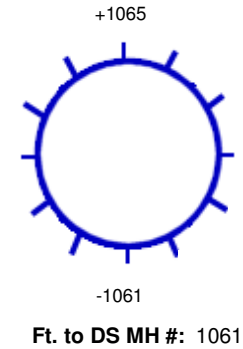
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1064 |
| Street: | Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 40 X 2 X 0.3 = 24.0 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration, mineral deposits |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1065 | 10' 10" | 10 | UNK | | 1.00 | 0 | | | 0 |
| OUT TO | 1061 | 10' 10" | 10 | UNK | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

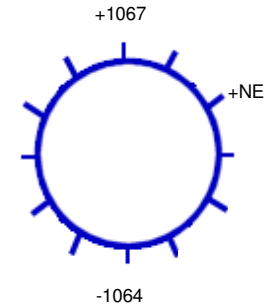
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1065 |
| Street: | Lafayette Road Between Tuscan Market and Convenient MD | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1064

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 1 | X 2 X 0.9 = 1.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | 1 | X 2 X 0.3 = 0.6 (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Roots |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 08' 07" | 10 | PVC | | 0.50 | 0 | | | 0 | Service |
| IN FROM | 1067 | 09' 05" | 10 | UNK | | 0 | 0 | | | | |
| OUT TO | 1064 | 09' 06" | 10 | UNK | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1066 |
| Street: | Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1067 |
| Street: | Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



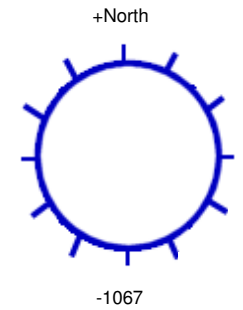
Municipality: Portsmouth, NH
Street: Lafayette Road Sidewalk in front of Tuscan House
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1068
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: ABOVE 1 In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 4 X 4 X 0.3 = 4.8 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1.5



Ft. to DS MH #: 1067

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BLOCK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 10' 02" | 8 | UNK | | 0 | 0 | | | 0 | |
| OUT TO | 1067 | 10' 02" | 8 | UNK | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1069 |
| Street: | Lafayette Road R.O.W. | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | Holes In Cover QTY SIZE (In) -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

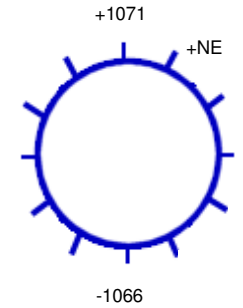
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1070 |
| Street: | Lafayette Road at Edgewood Drive | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 4 X 0.9 = 36.0 (SQFT) | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

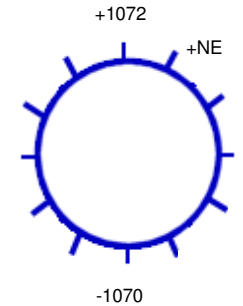
| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 06' 11" | 6 | ACP | | 0 | 0 | | | 0 | Service |
| IN FROM | 1071 | 09' 11" | 8 | UNK | | 0.25 | 0 | | | 0 | |
| OUT TO | 1066 | 09' 09" | 8 | UNK | | 0.25 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1071 |
| Street: | 545 Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1070

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 4 X 4 X 0.9 = 14.4 (SQFT) | | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 05' 10" | 6 | ACP | | 0 | 0 | | | 0 | Service |
| IN FROM | 1072 | 08' 11" | 8 | UNK | | 0.25 | 0.25 | | | 0 | |
| OUT TO | 1070 | 09' 00" | 8 | UNK | | 0.25 | 0.25 | | | 0 | |

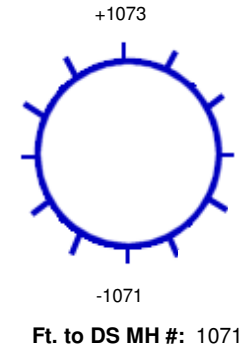
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1072 |
| Street: | Lafayette Road at Artwill Avenue | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 6 X 0.9 = 108.0 (SQFT) | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 1073 | 09' 01" | 8 | UNK | | 0.10 | 0 | | | 0 |
| OUT TO | 1071 | 09' 00" | 8 | UNK | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



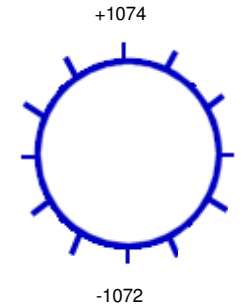
Municipality: Portsmouth, NH
Street: Lafayette Road at Andrew Jarvis Drive
Inspection Date: 6/23/2017 **Inspector:** MA **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 1073
Sub-System: LR5

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 1 X 2 X 0.9 = 1.8 (SQFT)
Drainage Area 2: (if applicable)
 1 X 2 X 0.3 = 0.6 (SQFT)

Holes In Cover **QTY** **SIZE (In)**
 2 1.5



Ft. to DS MH #: 1072

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1074 | 09' 05" | 8 | UNK | | 0.10 | 1.00 | | | 0 | |
| OUT TO | 1072 | 09' 05" | 8 | UNK | | 0.10 | 1.00 | | | 0 | |

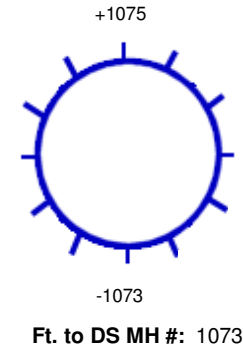
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1074 |
| Street: | Lafayette Road at Andrew Jarvis Drive | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 6 In. | 4 | X 4 X 0.3 = 4.8 (SQFT) | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

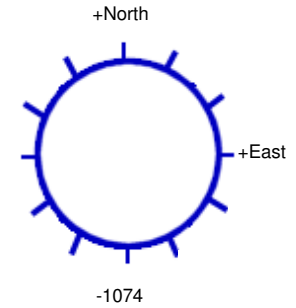
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 1075 | 07' 10" | 8 | UNK | | 0 | 0 | | | 0 | |
| OUT TO | 1073 | 07' 10" | 8 | UNK | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1075 |
| Street: | 409 Lafayette Road | | | Sub-System: | LR5 |
| Inspection Date: | 6/23/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 1074

| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
|----------------------------------|--|----------------------------------|-------------|----------------|-----------|
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 40 X 2 X 0.3 = | 24.0 (SQFT) | Holes In Cover | 2 1.5 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | ALUM | 1 | | | |
| WALLS | PRECAST | 3 | | | Roots |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | East | 08' 01" | 6 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM | North | 09' 02" | 8 | UNK | | 0 | 0 | | | 0 | |
| OUT TO | 1074 | 09' 02" | 8 | UNK | | 0 | 0 | | | 0 | |

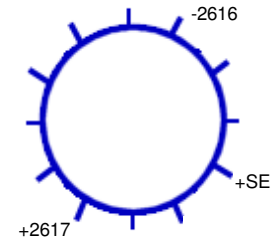
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 107 |
| Street: | 2998 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|----------------------------------|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 3 X 4 X 0.9 = 10.8 (SQFT) | | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2616

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|----------------------------|
| IN FROM | SE | 05' 06" | 10 | ACP | | 6.25 | 6.00 | | | 0 | Very little water movement |
| IN FROM | 2617 | 05' 06" | 10 | ACP | | 5.00 | 1.00 | | | 0 | |
| OUT TO | 2616 | 05' 07" | 10 | ACP | | 6.00 | 1.00 | | | 0 | |

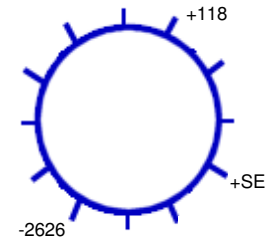
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 117 |
| Street: | 2470 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--------------------------------------|--------------------------------------|--------------------------|-------------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: | <input type="checkbox"/> CNI: | <input type="checkbox"/> | Drainage Area 1: | |
| Grade: | BELOW | | 0.5 In. | 5 X 5 X 0.9 = | 22.5 (SQFT) |
| Expandable riser | | | | Drainage Area 2: | (if applicable) |
| | | | | X X 0.3 = | (SQFT) |
| | | | | Holes In Cover | QTY SIZE (In) 2 1 |



Ft. to DS MH #: 2626

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 10' 10" | 12 | ACP | | 4.00 | 2.00 | | | 0 | Standing flow |
| IN FROM | 118 | 10' 10" | 12 | ACP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2626 | 10' 11" | 12 | ACP | | 4.00 | 0 | | | 0 | |

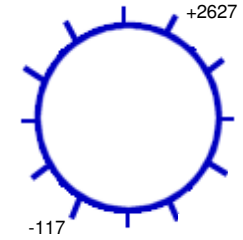
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 118 |
| Street: | 2468 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 X 6 X 0.9 = | 16.2 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 117

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2627 | 08' 10" | 12 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | 117 | 08' 11" | 12 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

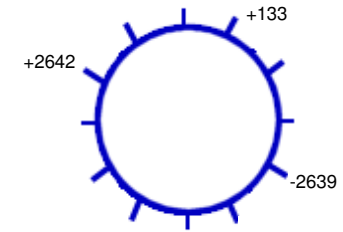
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 132 |
| Street: | Heritage Avenue at Post Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2639

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 3 X 0.9 = 27.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 2 | | | Missing mortar |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 133 | 04' 06" | 8 | ACP | | 0.25 | 0 | | | 0 |
| IN FROM | 2642 | 03' 09" | 6 | ACP | | 0 | 0 | | | 0 |
| OUT TO | 2639 | 04' 11" | 12 | ACP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

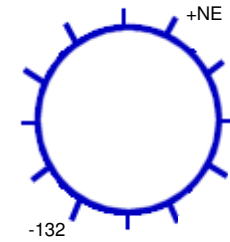
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 133 |
| Street: | 9 Post Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 132

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 04' 08" | 8 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | 132 | 04' 09" | 8 | ACP | | 1.00 | 0 | | | 0 | |

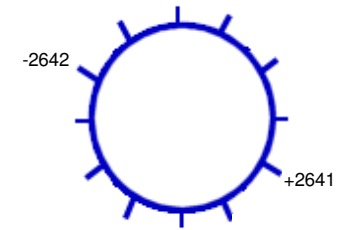
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 136 |
| Street: | 235 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2642

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

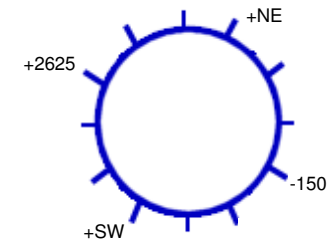
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2641 | 05' 02" | 10 | ACP | | 1.00 | 0 | | | 0 | Clear flow |
| OUT TO | 2642 | 05' 01" | 10 | ACP | | 1.00 | 0 | | | 0 | Clear flow |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 149 |
| Street: | 2837 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



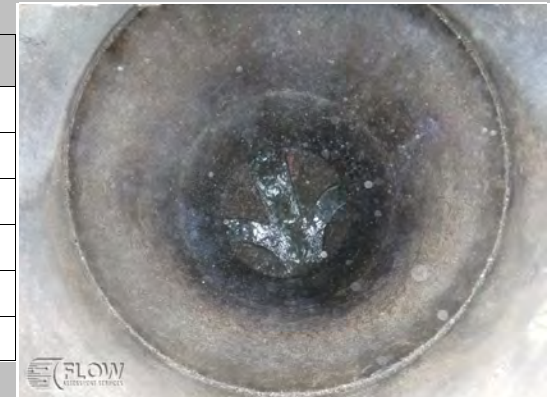
| | | | | | |
|---|--|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 3 In. | 2 X 2 X 0.3 = 1.2 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

Ft. to DS MH #: 150

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 13' 06" | 10 | ACP | | 3.00 | 2.00 | | | 0 | |
| IN FROM | SW | 13' 06" | 10 | ACP | | 4.00 | 2.00 | | | 0 | |
| IN FROM | 2625 | 13' 08" | 14 | ACP | | 5.00 | 0 | | | 0 | |
| OUT TO | 150 | 13' 09" | 14 | ACP | | 5.00 | 0 | | | 0 | |

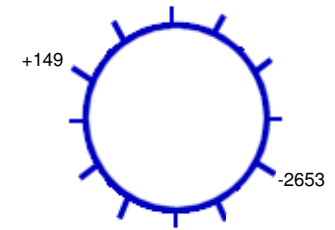
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 150 |
| Street: | Robert Avenue R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 19 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2653

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Rusted |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 149 | 06' 06" | 14 | RCP | | 3.50 | 0 | | | 0 |
| OUT TO | 2653 | 06' 07" | 14 | RCP | | 3.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

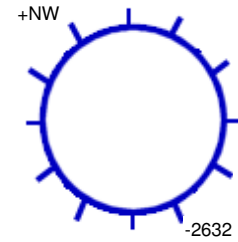
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 226 |
| Street: | Constitution Avenue at Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/28/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2632

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 05' 11" | 8 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | 2632 | 06' 00" | 8 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



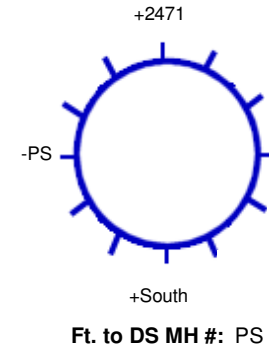
Municipality: Portsmouth, NH
 Street: 3660 Lafayette Road
 Inspection Date: 6/22/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **2469**
 Sub-System: **LR6**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 5 X 0.9 = 13.5 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|----------------------|
| IN FROM | South | 09' 00" | 10 | ACP | | 2.00 | 0 | | | 0 | Slow flow |
| IN FROM | 2471 | 09' 02" | 8 | ACP | | 1.50 | 0 | | | 0 | Outside drop blocked |
| OUT TO | PS | 09' 03" | 10 | ACP | | 3.00 | 0 | | | 0 | |

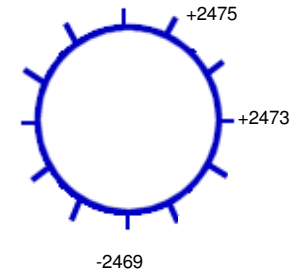
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2471 |
| Street: | 3660 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 X 5 X 0.9 = | 13.5 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2469

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | 0.5 | | Mineral deposits |
| FLOOR | PIP | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2473 | 06' 02" | 8 | ACP | | 3.00 | 0 | | | 0 | Slow flow |
| IN FROM | 2475 | 06' 01" | 8 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2469 | 06' 03" | 8 | ACP | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



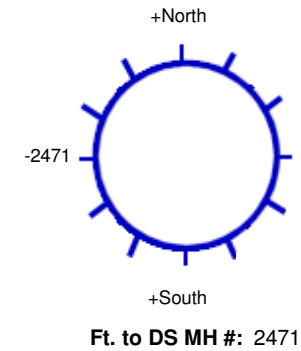
Municipality: Portsmouth, NH
 Street: 3660 Lafayette Road
 Inspection Date: 6/22/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **2473**
 Sub-System: **LR6**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 4 X 4 X 0.3 = 4.8 (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 05' 06" | 8 | ACP | | 0.10 | 0 | | | 0 | |
| IN FROM | South | 05' 05" | 8 | ACP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2471 | 05' 07" | 8 | ACP | | 1.00 | 0 | | | 0 | Slow flow |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



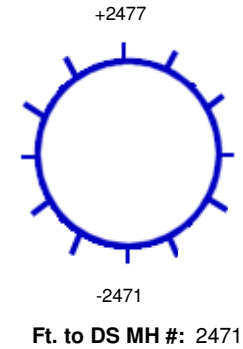
Municipality: Portsmouth, NH
 Street: 3612 Lafayette Road
 Inspection Date: 6/22/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2475
 Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Expandable riser, cracked cover

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 8 X 0.9 = 28.8 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2477 | 06' 06" | 8 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2471 | 06' 07" | 8 | ACP | | 3.00 | 0 | | | 0 | |

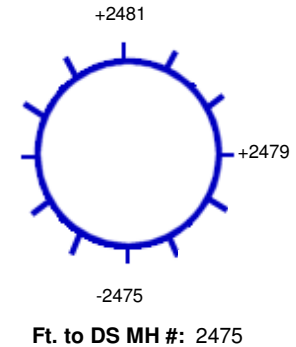
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2477 |
| Street: | 3600 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.5 In. | Drainage Area 1: 3 X 6 X 0.9 = 16.2 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2479 | 07' 03" | 8 | ACP | | 2.50 | 0.50 | | | 0 | Slow flow |
| IN FROM | 2481 | 07' 02" | 8 | ACP | | 2.00 | 0 | | | 0 | |
| OUT TO | 2475 | 07' 04" | 8 | ACP | | 2.00 | 0 | | | 0 | |

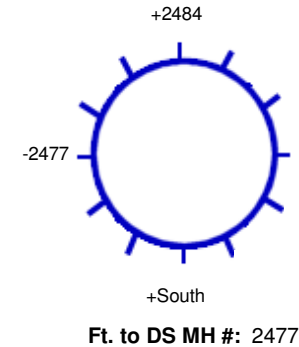
P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2479 |
| Street: | 3612 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 4 In. | 8 | X 3 X 0.3 = 7.2 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 3 | | | Roots and dirt fall through to bench |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Roots |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | South | 06' 01" | 8 | ACP | | 0 | 4.00 | | | 0 | Dirt blocking line |
| IN FROM | 2484 | 06' 03" | 8 | ACP | | 1.50 | 0 | | | 0 | Slow flow |
| OUT TO | 2477 | 06' 03" | 8 | ACP | | 2.00 | 1.00 | | | 0 | Slow flow |

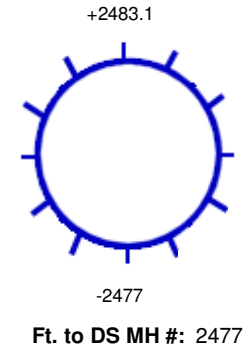
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2481 |
| Street: | 3600 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 | X 5 X 0.9 = 13.5 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2483.1 | 08' 01" | 8 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 2477 | 08' 02" | 8 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

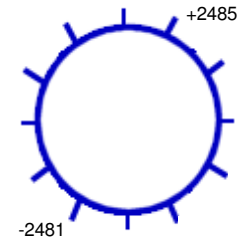
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2483 |
| Street: | Lafayette Road at Coach Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2481

| | | | | | |
|---|-----|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 X 5 X 0.9 = | 13.5 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2485 | 08' 04" | 10 | ACP | | 3.00 | 0 | | | 0 |
| OUT TO | 2481 | 08' 05" | 10 | ACP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

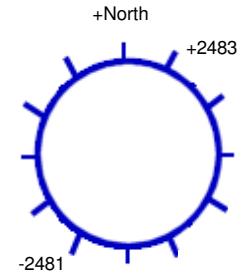
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
Street: 3600 Lafayette Road at Coach Road
Inspection Date: 6/22/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2483.1
Sub-System: LR6



Ft. to DS MH #: 2481

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.

COVER INFLOW POTENTIAL
Drainage Area 1:
 3 X 4 X 0.9 = 10.8 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1

General Comments: Unmapped manhole

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|-----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PIP | 1 | | | |
| INVERT | OPEN PIPE | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 08' 00" | 8 | PVC | | 2.00 | 0 | | | 0 | Standing flow |
| IN FROM | 2483 | 08' 01" | 8 | ACP | | 2.00 | 0 | | | 0 | |
| OUT TO | 2481 | 08' 02" | 8 | ACP | | 2.50 | 0 | | | 0 | |

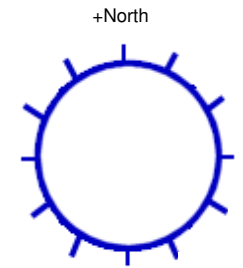
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2484 |
| Street: | 3611 Lafayette Road at Coach Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 X 20 X 0.9 = | 180.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2479

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 3 | | | Missing piece |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | North | 05' 05" | 8 | ACP | | 0 | 0 | | | 0 |
| OUT TO | 2479 | 05' 06" | 8 | ACP | | 0 | 0.25 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 3580 Lafayette Road at Coach Road
Inspection Date: 6/22/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2485
Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ CNL: ☐ CNI: ☐

Grade: AT In.

Cracked pavement surrounding frame,
expandable riser

COVER INFLOW POTENTIAL

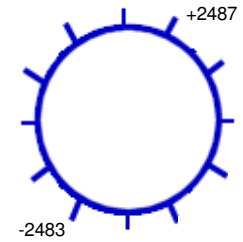
Drainage Area 1:

3 X 4 X 0.9 = 10.8 (SQFT)

Drainage Area 2: (if applicable)

X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 2483

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

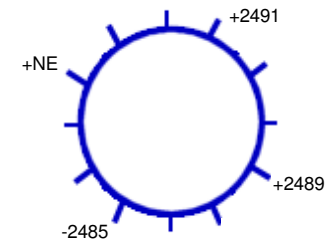
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2487 | 08' 06" | 10 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2483 | 08' 07" | 10 | ACP | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2487 |
| Street: | 3560 Lafayette Road at Coach Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2485

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 4 X 4 X 0.9 = 14.4 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|-------------------------------|
| IN FROM | NE | 07' 10" | 8 | PVC | | 1.50 | 0 | | | 0 | Pipe connection leak of 2 GPM |
| IN FROM | 2489 | 08' 00" | 8 | ACP | | 1.50 | 0 | | | 0 | |
| IN FROM | 2491 | 08' 01" | 10 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2485 | 08' 02" | 10 | ACP | | 3.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 3607 Lafayette Road at Coach Road
Inspection Date: 6/22/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2489
Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: BELOW 0.25 In.

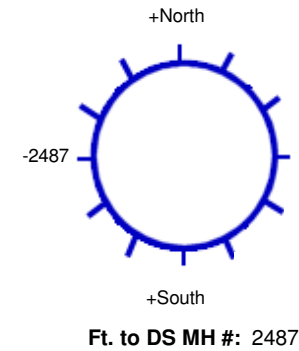
Cracked pavement surrounding frame,
expandable riser

COVER INFLOW POTENTIAL

Drainage Area 1:
 10 X 10 X 0.9 = 90.0 (SQFT)

Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Cracked |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 06' 02" | 8 | ACP | | 0 | 0 | | | 0 | |
| IN FROM | South | 06' 03" | 8 | ACP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2487 | 06' 05" | 8 | ACP | | 0.25 | 0 | | | 0 | |

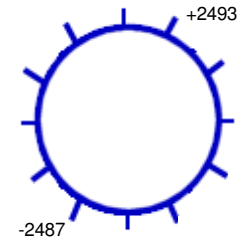
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2491 |
| Street: | 3548 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.25 In. | 8 X 8 X 0.9 = | 57.6 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2487

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2493 | 07' 08" | 8 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | 2487 | 07' 09" | 8 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

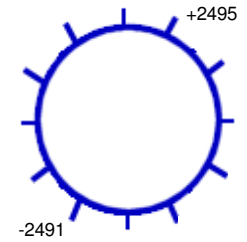
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2493 |
| Street: | 3510 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 8 X 0.9 = 28.8 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2491

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Cracked and missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2495 | 07' 00" | 8 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2491 | 07' 01" | 8 | ACP | | 3.00 | 0 | | | 0 | |

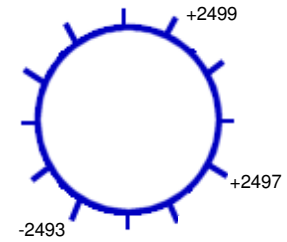
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2495 |
| Street: | 3430 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 8 X 0.9 = 21.6 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2493

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2497 | 07' 00" | 8 | ACP | | 4.00 | 0 | | | 0 | |
| IN FROM | 2499 | 07' 00" | 8 | ACP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2493 | 07' 01" | 8 | ACP | | 4.00 | 0 | | | 0 | |

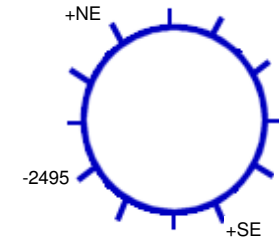
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2497 |
| Street: | 3430 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 6 In. | 3 | X 3 X 0.3 = 2.7 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2495

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM NE | | 06' 04" | 8 | ACP | | 1.50 | 0 | | | 0 |
| IN FROM SE | | 06' 05" | 8 | ACP | | 0 | 0 | | | 0 |
| OUT TO 2495 | | 06' 07" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 3370 Lafayette Road
Inspection Date: 6/22/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2499
Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS

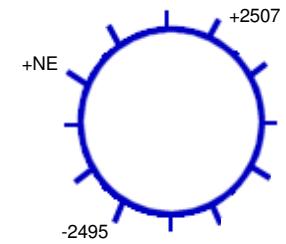
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.

Cracked pavement surrounding frame,
expandable riser

COVER INFLOW POTENTIAL

Drainage Area 1:
 4 X 6 X 0.9 = 21.6 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 2495

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

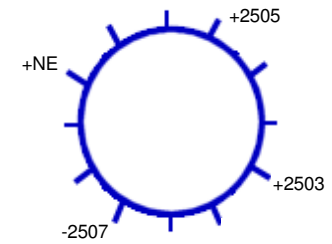
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 06' 10" | 8 | ACP | | 2.00 | 0 | | | 0 | |
| IN FROM | 2507 | 06' 11" | 8 | ACP | | 3.00 | 0 | | | 0 | |
| OUT TO | 2495 | 07' 00" | 8 | ACP | | 3.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2501 |
| Street: | Lafayette Road at Blue Fish Boulevard | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2507

| | | | | | |
|---|-------------------------------|---|---|-----|---------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 3 | X | 8 | X 0.9 = 21.6 (SQFT) |
| | | Drainage Area 1: | | | |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X | 0.3 | = (SQFT) |
| | | Holes In Cover | | QTY | SIZE (In) |
| | | | | 3 | 2 |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

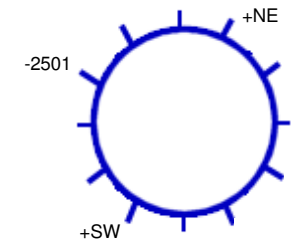
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 06' 04" | 8 | ACP | | 1.00 | 0 | | | 0 | |
| IN FROM | 2503 | 06' 05" | 8 | ACP | | 0.50 | 0 | | | 0 | |
| IN FROM | 2505 | 06' 05" | 8 | ACP | | 1.50 | 0 | | | 0 | |
| OUT TO | 2507 | 06' 05" | 8 | ACP | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2503 |
| Street: | Lafayette Road at Blue Fish Boulevard | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2501

| | | | | | |
|---|--|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT In. | | 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NE | 04' 08" | 8 | ACP | | 0 | 0 | | | 0 |
| IN FROM | SW | 04' 07" | 6 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 2501 | 04' 09" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



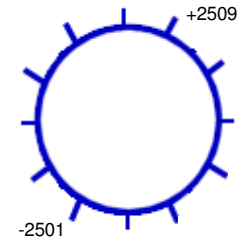
Municipality: Portsmouth, NH
 Street: 3224 Lafayette Road
 Inspection Date: 6/22/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2505
 Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 8 X 0.9 = 21.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 2501

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2509 | 06' 09" | 8 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | 2501 | 06' 09" | 8 | ACP | | 1.00 | 0 | | | 0 | |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

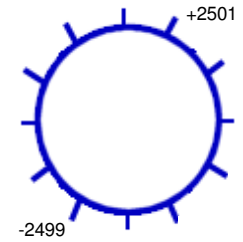
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2507 |
| Street: | 3360 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | 8 | X 8 X 0.3 = 19.2 (SQFT) | | |



Ft. to DS MH #: 2499

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2501 | 06' 05" | 8 | ACP | | 3.00 | 0 | | | 0 |
| OUT TO | 2499 | 06' 05" | 8 | ACP | | 3.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

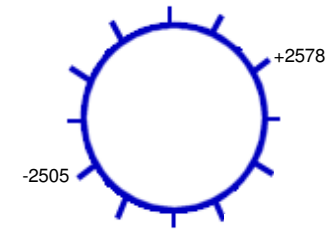
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2509 |
| Street: | 3131 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|----------------------------------|--|--------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: AT In. | | 4 X 6 X 0.9 = 21.6 (SQFT) | | Holes In Cover 2 1 | |
| Cracked pavement surrounding frame, cracked cover | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2505

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2578 | 06' 05" | 8 | ACP | | 0.25 | 0 | | | 0 |
| OUT TO | 2505 | 06' 05" | 8 | ACP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

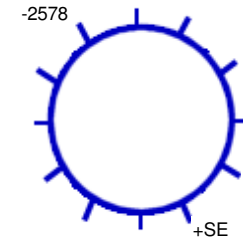
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2511 |
| Street: | Lafayette Road at Longmeadow Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2578

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | NONE | 3 | | | Heavy mud |
| INVERT | PVC | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | SE | 03' 09" | 6 | PVC | | 0.50 | 0 | | | 0 | Injector pump |
| OUT TO | 2578 | 03' 11" | 6 | PVC | | 0.50 | 0 | | | 0 | |

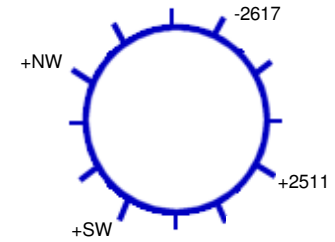
P:\Portsmouth NH 17046\MH INSPECTION REPORT

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2578 |
| Street: | Lafayette Road at Ocean Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2617

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 06' 04" | 10 | ACP | | 0.50 | 0 | | | 0 | |
| IN FROM | SW | 05' 07" | 10 | ACP | | 3.00 | 0 | | | 0 | |
| IN FROM | 2511 | 06' 02" | 8 | PVC | | 0 | 0 | | | 0 | |
| OUT TO | 2617 | 06' 06" | 12 | ACP | | 3.00 | 0 | | | 0 | |

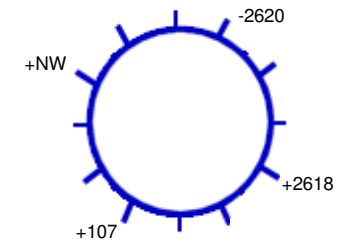
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2616 |
| Street: | Lafayette Road at Suzanne Drive | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.25 In. | 20 | X 20 X 0.9 = 360.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2620

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 07' 03" | 8 | ACP | | 2.00 | 0 | | | 0 | Slow flow |
| IN FROM | 107 | 07' 04" | 10 | ACP | | 4.50 | 0 | | | 0 | |
| IN FROM | 2618 | 07' 06" | 10 | ACP | | 4.00 | 0 | | | 0 | Slow flow |
| OUT TO | 2620 | 07' 06" | 10 | ACP | | 4.50 | 0 | | | 0 | |

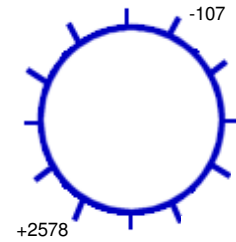
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2617 |
| Street: | 3010 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 X 6 X 0.9 = | 16.2 (SQFT) | Holes In Cover | 2 1 |
| Expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 107

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Exposed aggregate near floor |
| FLOOR | BRICK | 2 | | | Missing mortar |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2578 | 07' 00" | 10 | ACP | | 6.00 | 0 | | | 0 |
| OUT TO | 107 | 07' 01" | 10 | ACP | | 6.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

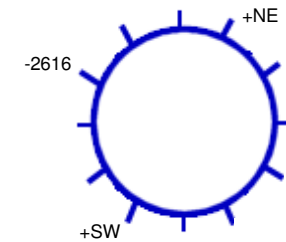
Municipality: Portsmouth, NH
Street: 2975 Lafayette Road
Inspection Date: 6/23/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2618
Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: BELOW 0.5 In.
 Expandable riser

COVER INFLOW POTENTIAL
Drainage Area 1:
 10 X 20 X 0.9 = 180.0 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1



Ft. to DS MH #: 2616

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 07' 09" | 8 | ACP | | 0.20 | 0 | | | 0 | |
| IN FROM | SW | 07' 09" | 8 | ACP | | 0.20 | 0 | | | 0 | |
| OUT TO | 2616 | 07' 11" | 10 | ACP | | 2.00 | 0 | | | 0 | |

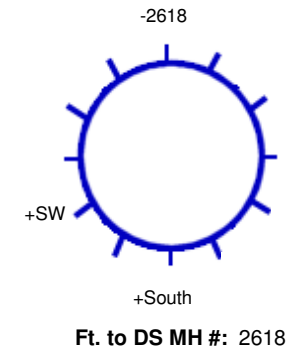
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2619 |
| Street: | Lafayette Road at Lang Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNI: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | BRICK | 3 | | | Broken, missing bricks |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 05' 05" | 8 | PVC | | 0.50 | 0 | | | 0 | |
| IN FROM | SW | 05' 06" | 8 | ACP | | 0 | 0 | | | 0 | Capped |
| OUT TO | 2618 | 05' 07" | 10 | ACP | | 0.20 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2620 |
| Street: | 2968 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input checked="" type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

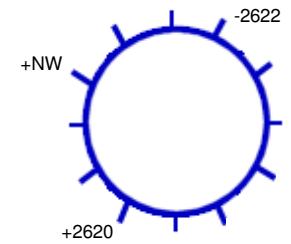
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2621 |
| Street: | Lafayette Road at Freedom Circle | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2622

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Covered in mud |
| INVERT | BRICK | 2 | | | Debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 08' 10" | 10 | ACP | | 2.00 | 0 | | | 0 |
| IN FROM | 2620 | 09' 01" | 10 | ACP | | 3.00 | 0 | | | 0 |
| OUT TO | 2622 | 09' 02" | 10 | ACP | | 4.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

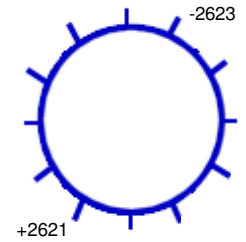
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2622 |
| Street: | Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 3 X 0.9 = 27.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2623

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2621 | 09' 03" | 10 | RCP | | 3.50 | 0 | | | 0 | |
| OUT TO | 2623 | 09' 04" | 10 | RCP | | 3.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: 2800 Lafayette Road
Inspection Date: 6/23/2017 **Inspector:** TG/ML **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2623
Sub-System: LR6

COVER CHARACTERISTICS / COMMENTS

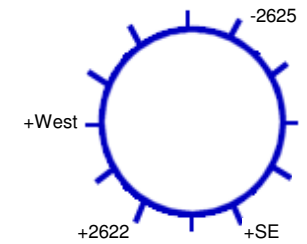
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.

Cracked pavement surrounding frame,
expandable riser

COVER INFLOW POTENTIAL

Drainage Area 1:
 4 X 8 X 0.9 = 28.8 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 2625

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

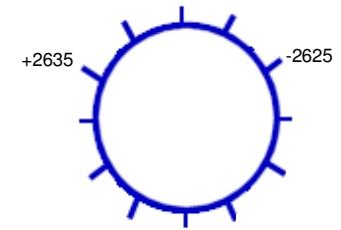
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 06' 04" | 1.5 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | West | 07' 07" | 6 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | 2622 | 08' 05" | 12 | ACP | | 2.50 | 0 | | | 0 | |
| OUT TO | 2625 | 08' 07" | 12 | ACP | | 2.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2624 |
| Street: | Heritage Avenue at Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2625

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Covered in mud |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2635 | 10' 10" | 12 | ACP | | 2.00 | 0 | | | 0 |
| OUT TO | 2625 | 10' 11" | 12 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

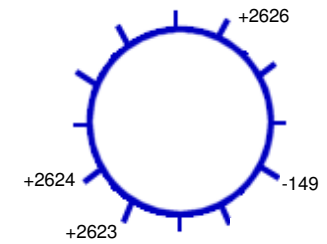
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2625 |
| Street: | Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 20 | X 4 X 0.9 = 72.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 149

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Cracked |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2623 | 11' 11" | 12 | RCP | | 2.50 | 0 | | | 0 | |
| IN FROM | 2624 | 12' 11" | 14 | RCP | | 2.00 | 0 | | | 0 | |
| IN FROM | 2626 | 13' 05" | 12 | RCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 149 | 13' 09" | 14 | RCP | | 3.50 | 0 | | | 0 | |

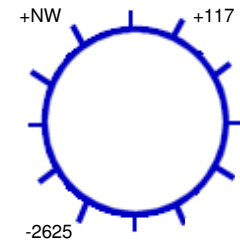
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2626 |
| Street: | 2600 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 4 | X 10 X 0.9 = 36.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2625

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 08' 07" | 6 | PVC | | 0.75 | 0 | | | 0 | |
| IN FROM | 117 | 12' 07" | 12 | ACP | | 2.50 | 0 | | | 0 | |
| OUT TO | 2625 | 12' 08" | 12 | ACP | | 2.50 | 0 | | | 0 | |

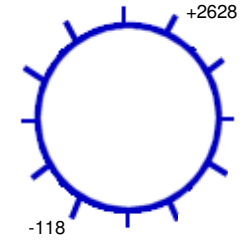
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2627 |
| Street: | 2460 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | 3 | X 3 X 0.3 = 2.7 (SQFT) | | |



Ft. to DS MH #: 118

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2628 | 08' 03" | 12 | ACP | | 1.50 | 0 | | | 0 |
| OUT TO | 118 | 08' 05" | 12 | ACP | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

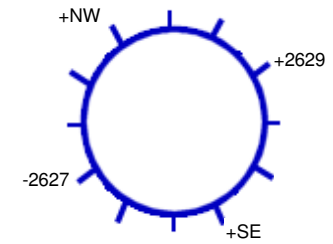
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2628 |
| Street: | Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2627

| | | | | | |
|---|--|-------------------------------|-----------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 15 X 3 X 0.9 = | 40.5 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: | (if applicable) | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------|
| FRAME | CAST | 2 | | | Corroded |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 07' 08" | 12 | VCP | | 0.25 | 1.50 | | | 0 | Service |
| IN FROM | SE | 08' 01" | 8 | VCP | | 0 | 1.00 | | | 0 | |
| IN FROM | 2629 | 07' 09" | 8 | VCP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2627 | 08' 01" | 12 | VCP | | 1.00 | 0 | | | 0 | |

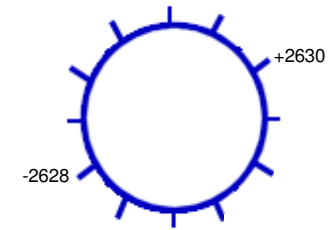
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2629 |
| Street: | 2458 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2628

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2630 | 06' 11" | 8 | ACP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2628 | 07' 01" | 8 | ACP | | 4.00 | 0 | | | 0 | |

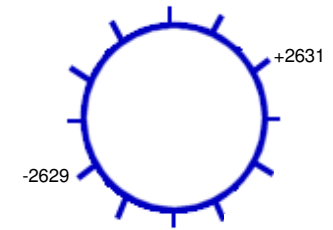
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2630 |
| Street: | 2458 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 8 | X 4 X 0.9 = 28.8 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame, expandable riser | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2629

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2631 | 06' 02" | 8 | ACP | | 0.75 | 0 | | | 0 | |
| OUT TO | 2629 | 06' 05" | 8 | ACP | | 0.75 | 0 | | | 0 | |

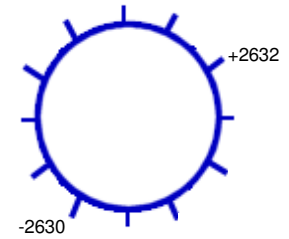
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2631 |
| Street: | Lafayette Road at Constitution Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 4 | X 2 X 0.9 = 7.2 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2630

General Comments: Manhole likely to take on rain during storms due to broken frame

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------------------|
| FRAME | CAST | 4 | | | Broken and missing pieces |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Covered in mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2632 | 07' 09" | 10 | ACP | | 2.00 | 0 | | | 0 | |
| OUT TO | 2630 | 07' 10" | 10 | ACP | | 2.00 | 0 | | | 0 | |

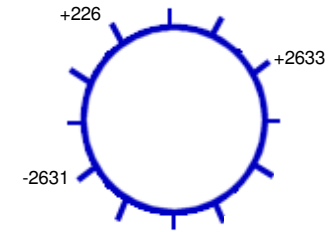
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2632 |
| Street: | Lafayette Road at Constitution Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 2 In. | 6 | X 2 X 0.9 = 10.8 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2631

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 3 | | | Broken |
| CORBEL | BRICK | 2 | | | Heavy mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Heavy mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 226 | 08' 00" | 10 | ACP | | 0.50 | 0 | | | 0 |
| IN FROM | 2633 | 08' 06" | 10 | ACP | | 1.00 | 0 | | | 0 |
| OUT TO | 2631 | 08' 07" | 10 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

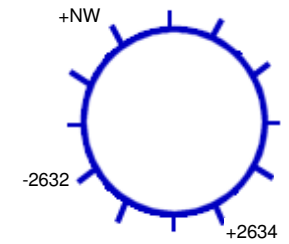
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2633 |
| Street: | 2454 Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/29/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 2 In. | 10 | X 2 X 0.9 = 18.0 (SQFT) | Holes In Cover | -- -- |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2632

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------|
| FRAME | CAST | 1 | | | Sunk into pavement |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | NW | 08' 04" | 10 | ACP | | 2.00 | 0 | | | 0 |
| IN FROM | 2634 | 08' 02" | 10 | ACP | | 0 | 0 | | | 0 |
| OUT TO | 2632 | 08' 05" | 10 | ACP | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2634 |
| Street: | Lafayette Road | | | Sub-System: | LR6 |
| Inspection Date: | 6/22/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | |
|--|--|---|
| COVER CHARACTERISTICS / COMMENTS | COVER INFLOW POTENTIAL | |
| Buried: <input checked="" type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input checked="" type="checkbox"/> | Drainage Area 1: X X 0.9 = (SQFT) Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | Holes In Cover QTY SIZE (In) -- -- |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

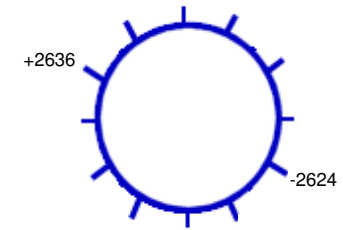
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2635 |
| Street: | Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 2624

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Weeping infiltration |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2636 | 11' 07" | 14 | RCP | | 0.75 | 0 | | | 0 |
| OUT TO | 2624 | 11' 08" | 14 | RCP | | 0.75 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

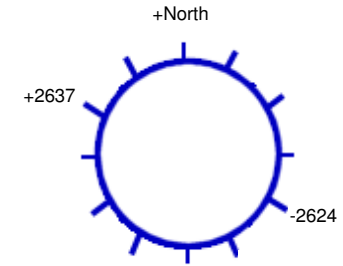
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2636 |
| Street: | 55 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2624

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

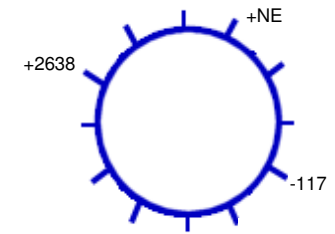
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | North | 10' 07" | 10 | PVC | | 0.10 | 0 | | | 0 | Service |
| IN FROM | 2637 | 12' 01" | 14 | RCP | | 1.00 | 0 | | | 0 | |
| OUT TO | 2624 | 12' 01" | 14 | RCP | | 1.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2637 |
| Street: | 85 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 117

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

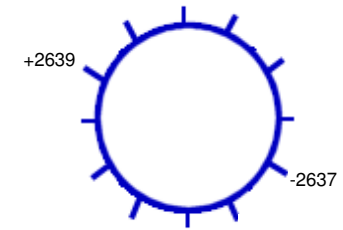
| LINE CONDITIONS | | | | | | | | | | | Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | NE | 09' 08" | 8 | UNK | | 0 | 0 | | | 0 | Disconnected service |
| IN FROM | 2638 | 09' 10" | 12 | RCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 117 | 09' 11" | 12 | RCP | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2638 |
| Street: | 112 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2637

| | | | | | |
|---|-------------------------------|---|--|--|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 10 X 3 X 0.9 = 27.0 (SQFT) | | Holes In Cover QTY: -- SIZE (In): -- | |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2639 | 07' 03" | 12 | RCP | | 0.25 | 0 | | | 0 |
| OUT TO | 2637 | 07' 04" | 12 | RCP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

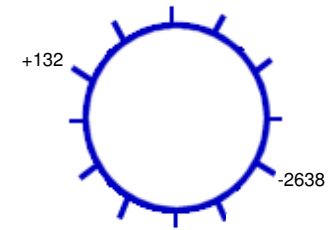
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2639 |
| Street: | 145 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/28/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2638

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 2 | | | Chipped |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 132 | 05' 10" | 12 | ACP | | 0.25 | 0 | | | 0 | |
| OUT TO | 2638 | 05' 11" | 12 | ACP | | 0.25 | 0 | | | 0 | |

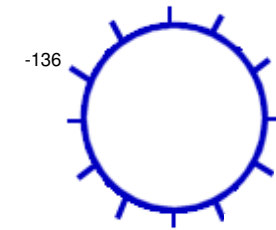
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2641 |
| Street: | 225 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 136

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 136 | 05' 01" | 8 | ACP | | 0 | 0.25 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

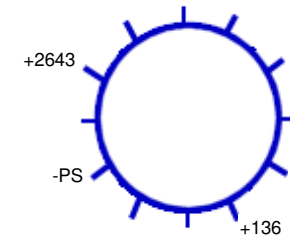
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2642 |
| Street: | 124 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: PS

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | 0.2 | | Seams leaking |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 136 | 05' 03" | 12 | ACP | | 1.00 | 0 | | | 0 | Outside drop |
| IN FROM | 2643 | 09' 04" | 12 | ACP | | 1.00 | 0 | | | 0 | |
| OUT TO | PS | 09' 05" | 12 | ACP | | 1.00 | 0 | | | 0 | |

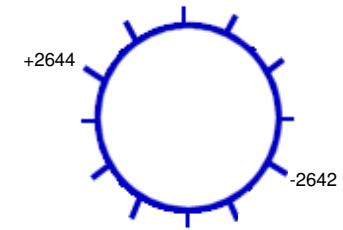
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2643 |
| Street: | 124 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 2642

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2644 | 09' 00" | 12 | VCP | | 1.00 | 0 | | | 0 |
| OUT TO | 2642 | 09' 01" | 12 | VCP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

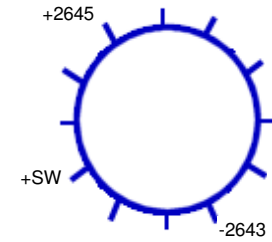
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2644 |
| Street: | 220-232 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|--|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 2643

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

| LINE CONDITIONS | | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | SW | 08' 01" | 8 | VCP | | 0.50 | 0 | | | 0 |
| IN FROM | 2645 | 08' 02" | 12 | ACP | | 1.00 | 0 | | | 0 |
| OUT TO | 2643 | 08' 03" | 12 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

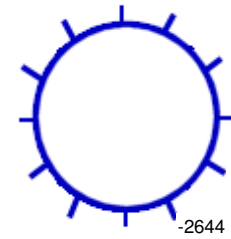
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2645 |
| Street: | 290 Heritage Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 3 X 0.9 = 5.4 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 2644

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2644 | 04' 08" | 10 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

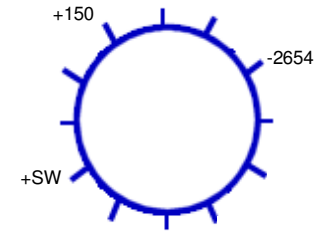
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2653 |
| Street: | Robert Avenue R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2654

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 35 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SW | 08' 04" | 12 | RCP | | 0.50 | 0 | | | 0 | |
| IN FROM | 150 | 08' 05" | 14 | RCP | | 3.50 | 0 | | | 0 | |
| OUT TO | 2654 | 08' 05" | 14 | RCP | | 4.00 | 0 | | | 0 | |

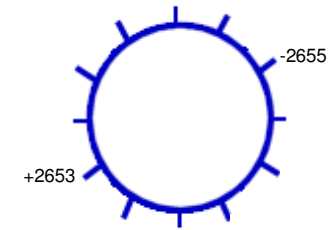
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2654 |
| Street: | Robert Avenue R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 25 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2655

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2653 | 07' 05" | 14 | RCP | | 2.50 | 0 | | | 0 |
| OUT TO | 2655 | 07' 06" | 14 | RCP | | 2.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

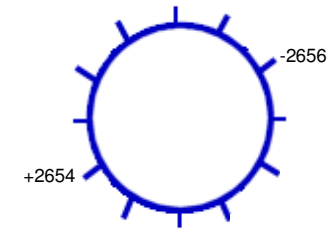
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2655 |
| Street: | White Cedar Boulevard R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 31 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2656

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2654 | 06' 04" | 14 | RCP | | 2.50 | 0 | | | 0 | |
| OUT TO | 2656 | 06' 05" | 14 | RCP | | 2.50 | 0 | | | 0 | |

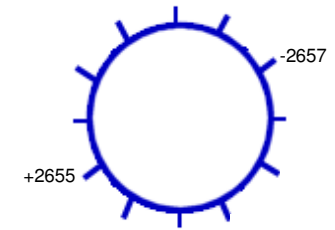
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2656 |
| Street: | White Cedar Boulevard R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT 32 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2657

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2655 | 07' 11" | 14 | RCP | | 3.50 | 0 | | | 0 | |
| OUT TO | 2657 | 08' 00" | 14 | RCP | | 3.50 | 0 | | | 0 | |

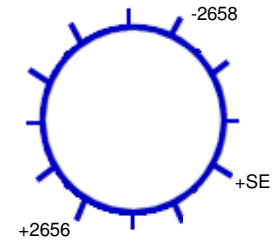
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2657 |
| Street: | White Cedar Boulevard R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 0.5 In. | 50 | X 10 X 0.9 = 450.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2658

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Mineral deposits |
| FLOOR | BRICK | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 06' 10" | 8 | PVC | | 0 | 0 | | | 0 | Service |
| IN FROM | 2656 | 08' 01" | 14 | RCP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2658 | 08' 02" | 14 | RCP | | 4.00 | 0 | | | 0 | |

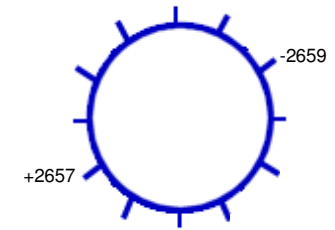
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2658 |
| Street: | White Cedar Boulevard R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT 24 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2659

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Roots |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2657 | 10' 01" | 14 | RCP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2659 | 10' 01" | 14 | RCP | | 4.00 | 0 | | | 0 | |

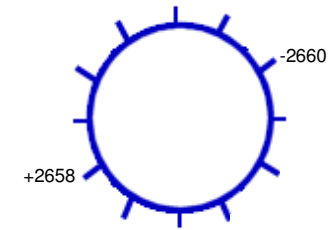
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2659 |
| Street: | White Cedar Boulevard R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT 33 In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2660

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2658 | 11' 06" | 14 | RCP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2660 | 11' 7" | 14 | RCP | | 4.00 | 0 | | | 0 | |

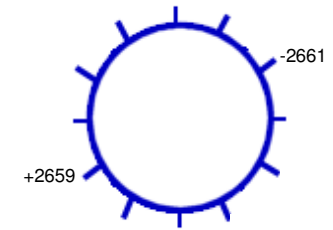
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|----|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2660 |
| Street: | Springbrook Circle Parking lot | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 10 X 0.9 = 90.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2661

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

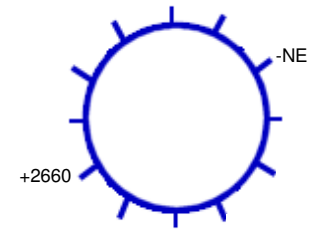
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2659 | 12' 11" | 14 | RCP | | 4.00 | 0 | | | 0 | |
| OUT TO | 2661 | 12' 11" | 14 | RCP | | 4.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------|-------------------|----|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2661 |
| Street: | Springbrook Circle R.O.W. | | | Sub-System: | LR6 |
| Inspection Date: | 6/26/2017 | Inspector: | MA | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: NE

| | | | | | |
|---|--|----------------------------------|------------------------|----------------|-----------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 3 X 0.3 = 9.0 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Roots |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2660 | 10' 05" | 14 | RCP | | 4.00 | 0 | | | 0 |
| OUT TO | NE | 10' 06" | 14 | RCP | | 4.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



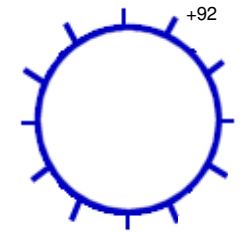
Municipality: Portsmouth, NH
 Street: Alder Way
 Inspection Date: 6/23/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 89
 Sub-System: M1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 1 In.
 Cracked pavement surrounding frame

COVER INFLOW POTENTIAL
 Drainage Area 1:
 10 X 5 X 0.9 = 45.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



-South
 Ft. to DS MH #: South

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

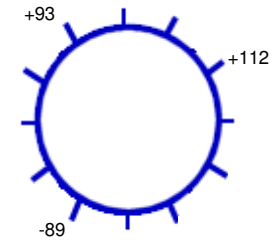
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 92 | 09' 00" | 14 | PVC | | 3.00 | 0 | | | 0 | |
| OUT TO | South | 09' 01" | 14 | PVC | | 3.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|-----------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 92 |
| Street: | US Rt 1 Bypass at Cutts Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 89

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 10 | X 10 X 0.9 = 90.0 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Broken brick, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 93 | 07' 07" | 10 | PVC | | 1.00 | 0 | | | 0 |
| IN FROM | 112 | 07' 08" | 10 | ACP | | 0.25 | 0 | | | 0 |
| OUT TO | 89 | 07' 07" | 12 | PVC | | 2.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

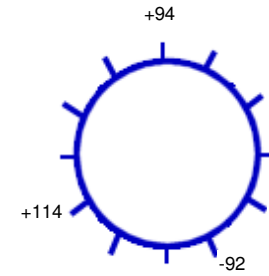
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|-------|---------------------|-----------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 93 |
| Street: | Cutts Street at Rt 1 Bypass | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 4 | X 6 X 0.9 = 21.6 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame, cracked cover | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 92

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

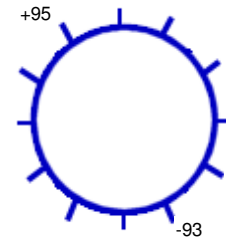
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 94 | 06' 06" | 10 | ACP | | 10.00 | 1.00 | | | 0 | Standing flow |
| IN FROM | 114 | 06' 05" | 8 | ACP | | 10.00 | 1.00 | | | 0 | Standing flow |
| OUT TO | 92 | 06' 06" | 10 | ACP | | 10.00 | 1.00 | | | 0 | Standing flow |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------|-------------------|-------|---------------------|----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 94 |
| Street: | 4 Cutts Street | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 93

| | | | | | |
|---|-------------------------------|----------------------------------|---|----------------|--------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 2 | X | 2 | X 0.9 = 3.6 (SQFT) |
| Cracked cover | | Drainage Area 2: (if applicable) | | Holes In Cover | QTY SIZE (In) |
| | | X | X | 0.3 = (SQFT) | -- -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 2 | | | Cracked, cover loose |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Heavy mud |
| FLOOR | BRICK | 2 | | | Heavy mud |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 95 | 07' 00" | 12 | PVC | | 1.00 | 0 | | | 0 |
| OUT TO | 93 | 07' 01" | 12 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

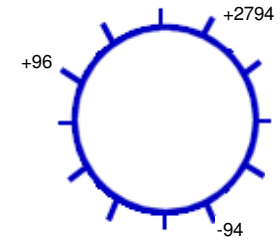
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 95 |
| Street: | Maplewood Avenue at Cutts Street | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 94

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 96 | 11' 02" | 10 | ACP | | 1.00 | 0 | | | 0 |
| IN FROM | 2794 | 11' 00" | 10 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 94 | 11' 03" | 10 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

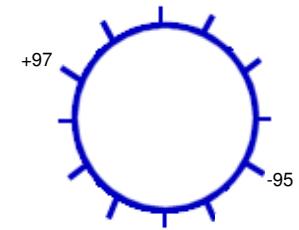
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-----------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 96 |
| Street: | 579 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--------------------------------------|--------------------------------------|--|-----------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: | ABOVE | 1 In. | | | |
| Large hole in pavement next to manhole | | | | | |
| Drainage Area 1: | | Drainage Area 2: | | Holes In Cover | |
| 6 X 4 X 0.9 = 21.6 (SQFT) | | (if applicable) | | QTY SIZE (In) | |
| X X 0.3 = (SQFT) | | | | -- -- | |



Ft. to DS MH #: 95

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Loose |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Debris |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 97 | 11' 04" | 12 | PVC | | 2.00 | 1.00 | | | 0 | |
| OUT TO | 95 | 11' 06" | 12 | PVC | | 1.00 | 0 | | | 0 | |

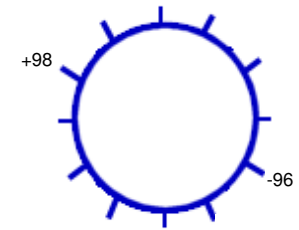
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 97 |
| Street: | 641 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|---|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 2 | X | 2 | X 0.9 = 3.6 (SQFT) |
| Expandable riser | | Drainage Area 2: (if applicable) | | Holes In Cover | QTY SIZE (In) 2 1 |
| | | X | X | 0.3 = | (SQFT) |



Ft. to DS MH #: 96

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Mastic at seal |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

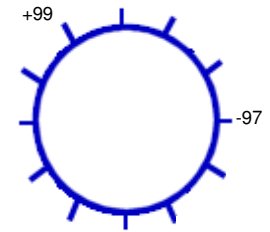
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 98 | 04' 11" | 12 | PVC | | 2.00 | 0 | | | 0 | |
| OUT TO | 96 | 09' 04" | 12 | PVC | | 2.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-----------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 98 |
| Street: | 680 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 97

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 6 | X 10 X 0.9 = 54.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, loose bricks |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 99 | 05' 04" | 10 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 97 | 05' 05" | 10 | PVC | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

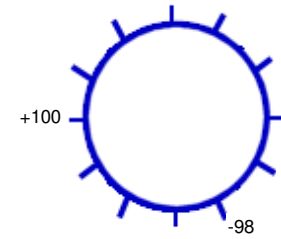
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------------|-------------------|-------|---------------------|----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 99 |
| Street: | Maplewood Avenue near Rt 95 overpass | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|--|----------------------------------|--|----------------------|--|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY SIZE (In) | |
| Grade: AT In. | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover -- -- | |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 98

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Loose bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 100 | 05' 09" | 12 | PVC | | 0.75 | 0 | | | 0 |
| OUT TO | 98 | 05' 10" | 12 | PVC | | 0.75 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

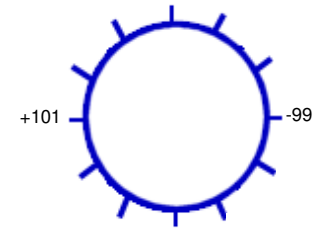
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
 Street: 769 Maplewood Avenue
 Inspection Date: 6/27/2017 Inspector: MS/JP Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 100
 Sub-System: M1



Ft. to DS MH #: 99

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 3 X 0.9 = 8.1 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General
 Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-----------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Heavy mud |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 101 | 06' 05" | 12 | PVC | | 1.00 | 0 | | | 0 | |
| OUT TO | 99 | 06' 06" | 12 | PVC | | 1.00 | 0 | | | 0 | |

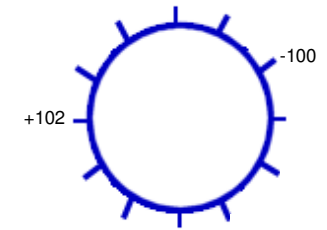
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 101 |
| Street: | 768 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT In. | | 4 X 20 X 0.9 = 72.0 (SQFT) | | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 100

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 102 | 05' 01" | 10 | PVC | | 1.00 | 0 | | | 0 | |
| OUT TO | 100 | 05' 03" | 10 | PVC | | 1.00 | 0 | | | 0 | |

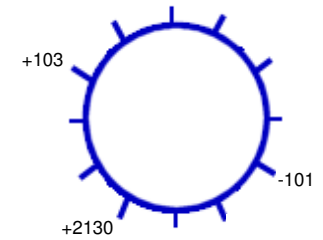
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 102 |
| Street: | 791 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 2 X 0.9 = 5.4 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 101

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 103 | 09' 11" | 10 | PVC | | 1.00 | 0 | | | 0 |
| IN FROM | 2130 | 10' 00" | 10 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 101 | 10' 03" | 10 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

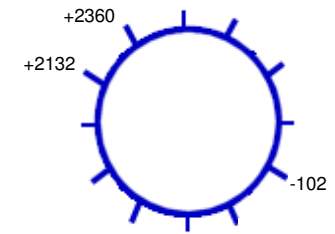
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 103 |
| Street: | 825 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 102

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Loose bricks |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2132 | 10' 07" | 10 | PVC | | 1.00 | 0 | | | 0 |
| IN FROM | 2360 | 03' 01" | 10 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 102 | 10' 08" | 10 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

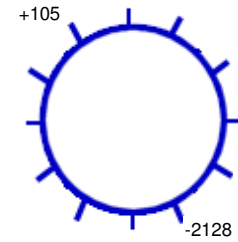
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 104 |
| Street: | 900 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 1 In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2128

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------------------|
| FRAME | CAST | 2 | | | Loose |
| CORBEL | BRICK | 2 | | | Missing bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 105 | 07' 06" | 8 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 2128 | 07' 07" | 8 | PVC | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



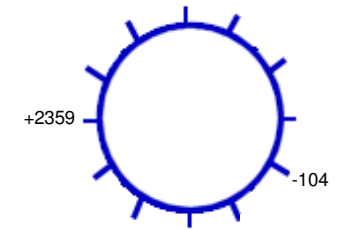
Municipality: Portsmouth, NH
 Street: 959 Maplewood Avenue
 Inspection Date: 6/27/2017 Inspector: MS/JP Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 105
 Sub-System: M1

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 4 X 2 X 0.9 = 7.2 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --



Ft. to DS MH #: 104

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2359 | 08' 07" | 8 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 104 | 08' 08" | 8 | PVC | | 0.50 | 0 | | | 0 | |

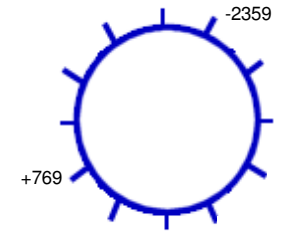
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 106 |
| Street: | 1009 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| Cracked cover | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2359

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing bricks |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 769 | 06' 04" | 8 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 2359 | 06' 07" | 8 | PVC | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

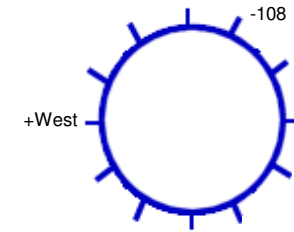
☒ Surface ☐ Internal



N

Municipality: Portsmouth, NH
 Street: 48 Fairview Avenue
 Inspection Date: 6/23/2017 Inspector: TG/ML Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 109
 Sub-System: M1



Ft. to DS MH #: 108

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.25 In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 3 X 8 X 0.9 = 21.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General
 Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | West | 06' 04" | 4 | PVC | | 0 | 0 | | | 0 | |
| OUT TO | 108 | 07' 03" | 8 | PVC | | 0 | 0 | | | 0 | |

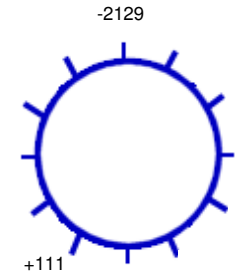
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 110 |
| Street: | 139 Fairview Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange, 1" manhole riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2129

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 111 | 04' 10" | 8 | PVC | | 0.20 | 0 | | | 0 |
| OUT TO | 2129 | 04' 11" | 8 | PVC | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

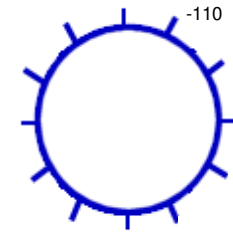
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 111 |
| Street: | 134 Fairview Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.3 In. | 0 | X 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange, 1" manhole riser, cover cracked | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



+759
Ft. to DS MH #: 110

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 759 | 03' 09" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 110 | 04' 00" | 8 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

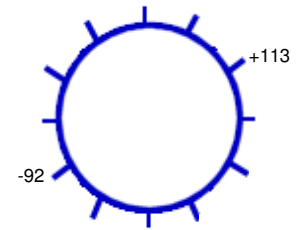
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 112 |
| Street: | 1010 US Rt 1 Bypass | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 30 | X 30 X 0.9 = 810.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 92

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Broken and missing brick, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 113 | 06' 10" | 10 | ACP | | 0.50 | 0 | | | 0 | Standing flow |
| OUT TO | 92 | 06' 11" | 10 | ACP | | 0.50 | 0 | | | 0 | Standing flow |

P:\Portsmouth NH 17046\MH INSPECTION REPORT

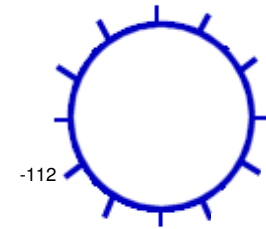
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 113 |
| Street: | 1010 US Rt 1 Bypass | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|--------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 15 X 15 X 0.9 = | 202.5 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 172

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Missing and broken brick, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 112 | 05' 02" | 10 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

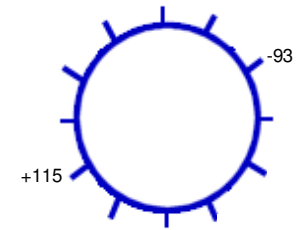
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 114 |
| Street: | US Rt 1 Bypass at Cutts Street | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|---------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 10 | X 40 X 0.9 = 360.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 93

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|-------------------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Broken bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 115 | 06' 01" | 8 | ACP | | 0.25 | 0 | | | 0 |
| OUT TO | 93 | 06' 02" | 8 | ACP | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

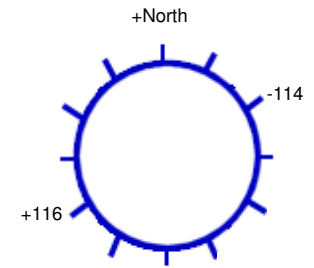
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 115 |
| Street: | 933 US Rt 1 Bypass | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 114

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 8 X 0.9 = 28.8 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | North | 04' 00" | 1.5 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | 116 | 06' 02" | 8 | ACP | | 0.10 | 0.10 | | | 0 | |
| OUT TO | 114 | 06' 03" | 8 | ACP | | 0.10 | 0.10 | | | 0 | |

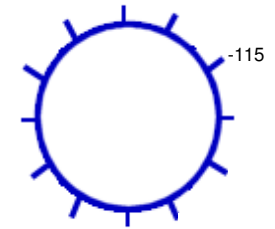
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 116 |
| Street: | 919 US Rt 1 Bypass | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 2 X 0.9 = 5.4 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 115

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 115 | 09' 05" | 8 | ACP | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

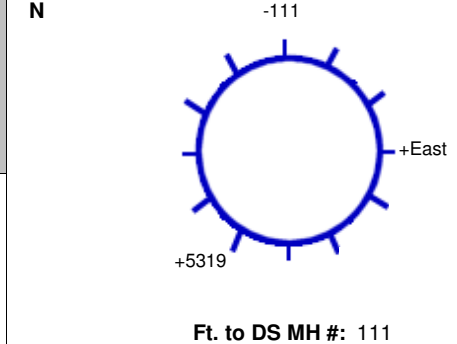
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 759 |
| Street: | Fairview Avenue at O'Leary Place | | | Sub-System: | M1 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange, 1" manhole riser | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PARGED | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | East | 04' 01" | 8 | PVC | | 0 | 0 | | | 0 |
| IN FROM | 5319 | 04' 01" | 8 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 111 | 04' 02" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

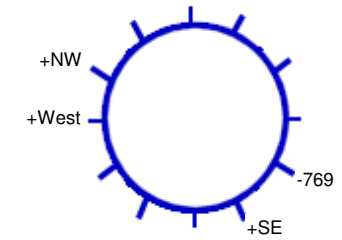
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 767 |
| Street: | 1079 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 769

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Breaking |
| STEPS | NONE | 0 | | | |
| WALLS | BRICK | 2 | | | Missing mortar |
| FLOOR | CNI | 0 | | | Holding water |
| INVERT | CNI | 0 | | | Holding water |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NW | 04' 06" | 8 | VCP | | 0 | 0 | | | 0 | Service |
| IN FROM | SE | 03' 06" | 2 | CIP | | 0 | 0 | | | 0 | Service |
| IN FROM | West | 04' 07" | 4 | PVC | | 0 | 0 | | | 0 | Service |
| OUT TO | 769 | 05' 09" | 10 | VCP | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 769 |
| Street: | Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

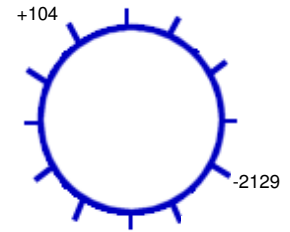
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2128 |
| Street: | 903 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2129

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 104 | 07' 02" | 8 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 2129 | 07' 03" | 8 | PVC | | 0.50 | 0 | | | 0 | |

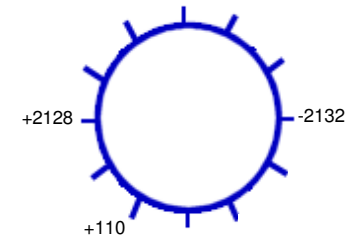
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2129 |
| Street: | Maplewood Avenue at Fairview Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 2132

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 2 | | | Loose |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 110 | 08' 07" | 8 | PVC | | 0.50 | 0 | | | 0 |
| IN FROM | 2128 | 08' 06" | 8 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 2132 | 08' 08" | 8 | PVC | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

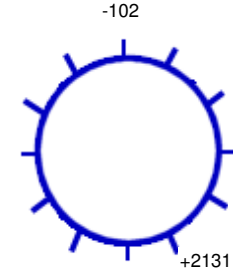
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2130 |
| Street: | 237 Edmond Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|--------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 20 X 0.9 = 72.0 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 102

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2131 | 11' 05" | 8 | PVC | | 2.00 | 0 | | | 0 |
| OUT TO | 102 | 11' 06" | 8 | PVC | | 0.20 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

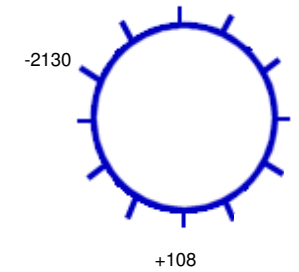
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2131 |
| Street: | 230 Edmond Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 | X 6 X 0.9 = 16.2 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding frame, cracked cover | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2130

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Missing and broken bricks, missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 108 | 11' 01" | 8 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 2130 | 11' 02" | 8 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

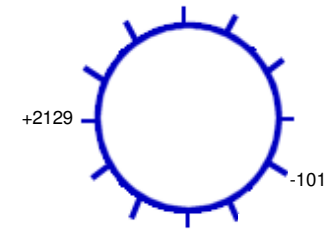
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2132 |
| Street: | 873 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|---------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY SIZE (In) |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | -- | -- |



Ft. to DS MH #: 101

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2129 | 09' 08" | 10 | PVC | | 1.50 | 0 | | | 0 |
| OUT TO | 101 | 09' 09" | 10 | PVC | | 1.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

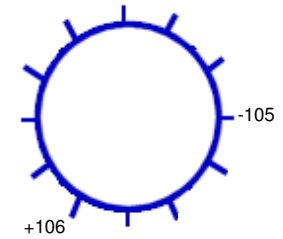
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2359 |
| Street: | 1069 Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/27/2017 | Inspector: | MS/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 4 | X 4 X 0.9 = 14.4 (SQFT) | Holes In Cover | 2 0.5 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 105

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 106 | 07' 04" | 8 | PVC | | 0.50 | 0 | | | 0 |
| OUT TO | 105 | 07' 05" | 8 | PVC | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

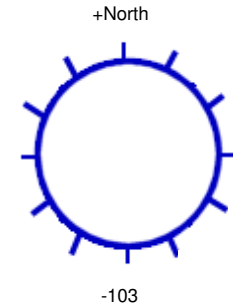
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2360 |
| Street: | Maplewood Avenue | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 3 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | NONE | 0 | | | |
| STEPS | PLASTIC | 1 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 2 | | | Full of debris |
| INVERT | BRICK | 2 | | | Full of debris |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | North | 04' 02" | 4 | PVC | | 4.00 | 0 | | | 0 |
| OUT TO | 103 | 04' 10" | 8 | CIP | | 4.00 | 0 | | | 0 |
| | | | | | | | | | | Drains very slowly |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|--------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2792 |
| Street: | Cutts Street at Ashland Street | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

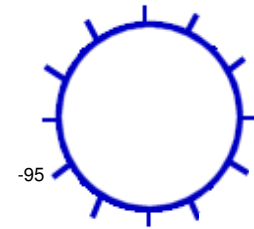
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2794 |
| Street: | Maplewood Avenue at Cutts Street | | | Sub-System: | M1 |
| Inspection Date: | 6/23/2017 | Inspector: | TG/ML | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 3 | X 8 X 0.9 = 21.6 (SQFT) | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 95

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|--|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 95 | 11' 06" | 10 | ACP | | 0 | 0 | | | 0 |
| Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT | | | | | | | | | | |
| Line Comments | | | | | | | | | | |

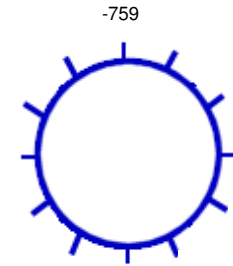
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 5319 |
| Street: | 101 O'Leary Place | | | Sub-System: | M1 |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | VINYL COATED | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 759 | 06' 00" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

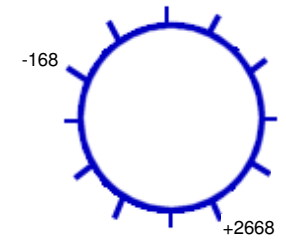
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 167 |
| Street: | FW Hartford Drive Easement | | | Sub-System: | P2A |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: ABOVE | 3 In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



Ft. to DS MH #: 168

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK/PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2668 | 07' 10" | 15 | RCP | | 5.00 | 0 | | | 0 | |
| OUT TO | 168 | 07' 11" | 15 | RCP | | 5.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



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| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 168 |
| Street: | FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

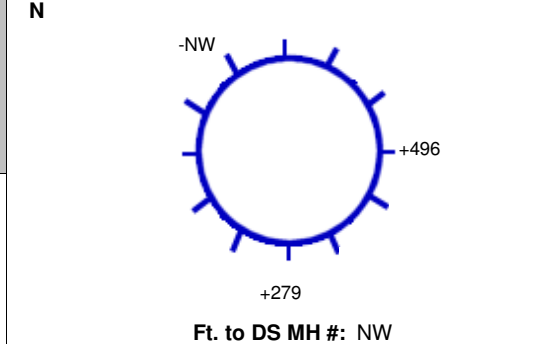
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 278 |
| Street: | FW Hartford Drive at TJ Gamester Avenue | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.5 In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 279 | 09' 05" | 8 | ACP | | 0.25 | 0 | | | 0 | |
| IN FROM | 496 | 09' 06" | 8 | ACP | | 0.25 | 0 | | | 0 | |
| OUT TO | NW | 09' 06" | 8 | ACP | | 0.30 | 0 | | | 0 | |

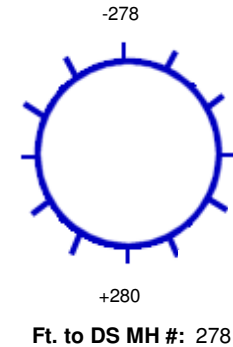
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 279 |
| Street: | 70 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|----------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 280 | 10' 04" | 8 | PVC | | 0.60 | 0 | | | 0 | |
| OUT TO | 278 | 10' 05" | 8 | PVC | | 0.60 | 0 | | | 0 | |

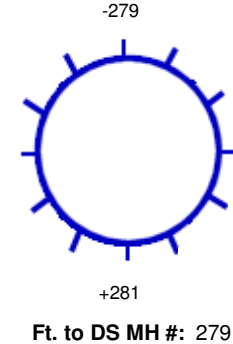
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 280 |
| Street: | 95 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 281 | 09' 00" | 8 | ACP | | 0.60 | 0 | | | 0 |
| OUT TO | 279 | 09' 01" | 8 | ACP | | 0.60 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



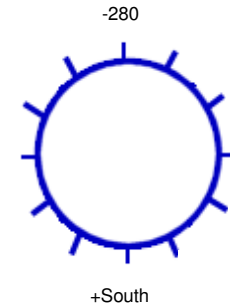
Municipality: Portsmouth, NH
 Street: 130 FW Hartford Drive
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 281
 Sub-System: P2A

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Blind flange

COVER INFLOW POTENTIAL
 Drainage Area 1:
 0 X 0 X 0.9 = 0.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



Ft. to DS MH #: 280

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | South | 06' 05" | 6 | ACP | | 0 | 0 | | | 0 | |
| OUT TO | 280 | 06' 06" | 8 | ACP | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



N

| | | | | | |
|-------------------------|--------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 282 |
| Street: | TJ Gamester Avenue | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|--|---|---|-----|----------|---|
| COVER CHARACTERISTICS / COMMENTS Buried: <input type="checkbox"/> CNL: <input checked="" type="checkbox"/> CNI: <input type="checkbox"/> | COVER INFLOW POTENTIAL | | | | QTY SIZE (In) Holes In Cover -- -- |
| | Drainage Area 1: | | | | |
| | X | X | 0.9 | = (SQFT) | |
| | Drainage Area 2: (if applicable) | | | | |
| | X | X | 0.3 | = (SQFT) | |

Ft. to DS MH #:

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | | 0 | | | |
| CORBEL | | 0 | | | |
| STEPS | | 0 | | | |
| WALLS | | 0 | | | |
| FLOOR | | 0 | | | |
| INVERT | | 0 | | | |

Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

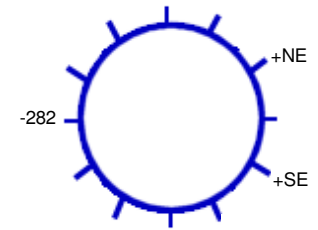
| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 283 |
| Street: | 65 TJ Gamester Avenue | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 282

| | | | | | |
|---|-------------------------------|---|--|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM NE | | 05' 05" | 3 | ACP | | 0 | 0 | | | 0 |
| IN FROM SE | | 05' 05" | 3 | ACP | | 0.10 | 0 | | | 0 |
| OUT TO 282 | | 05' 09" | 8 | ACP | | 0.10 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

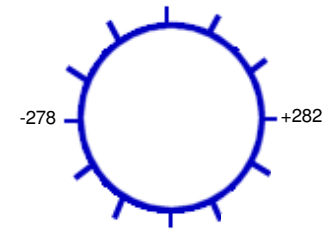
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 496 |
| Street: | 20 TJ Gamester Avenue | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 278

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 282 | 09' 06" | 8 | ACP | | 0.50 | 0 | | | 0 |
| OUT TO | 278 | 09' 07" | 8 | ACP | | 0.50 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

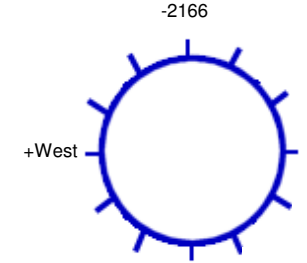
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2165 |
| Street: | 420 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

N



| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | West | 05' 05" | 8 | PVC | | 0 | 0 | | | 0 |
| OUT TO | 2166 | 05' 06" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



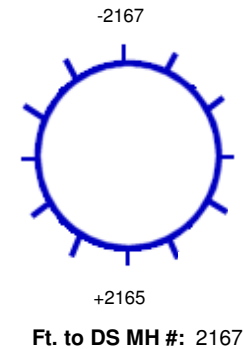
Municipality: Portsmouth, NH
Street: 440 FW Hartford Drive
Inspection Date: 6/21/2017 **Inspector:** RV/JC **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 2166
Sub-System: P2A

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: BELOW 0.5 In.
 Cracked and missing pavement surrounding frame

COVER INFLOW POTENTIAL
Drainage Area 1:
 4 X 4 X 0.9 = 14.4 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover
 QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2165 | 08' 08" | 8 | PVC | | 0.75 | 0 | | | 0 | |
| OUT TO | 2167 | 08' 09" | 8 | PVC | | 0.75 | 0 | | | 0 | |

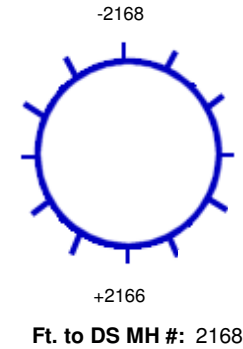
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2167 |
| Street: | 475 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |



| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2166 | 11' 00" | 8 | PVC | | 0.50 | 0 | | | 0 | |
| OUT TO | 2168 | 11' 02" | 8 | PVC | | 0.50 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



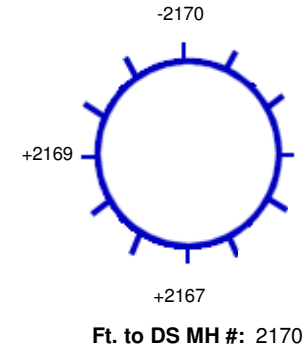
Municipality: Portsmouth, NH
 Street: FW Hartford Drive at TJ Gamester Avenue
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **2168**
 Sub-System: **P2A**

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.

COVER INFLOW POTENTIAL
 Drainage Area 1:
 2 X 2 X 0.9 = 3.6 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1



General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2167 | 12' 03" | 8 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | 2169 | 09' 07" | 8 | PVC | | 0.25 | 0 | | | 0 | Outside drop |
| OUT TO | 2170 | 12' 04" | 8 | PVC | | 0.25 | 0 | | | 0 | |

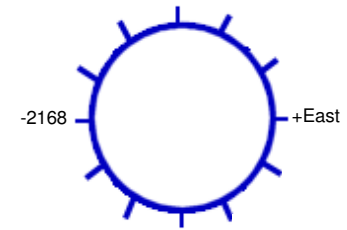
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 95 TJ Gamester Avenue
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 2169
 Sub-System: P2A



Ft. to DS MH #: 2168

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ CNL: ☐ CNI: ☐
 Grade: BELOW 0.5 In.

Cracked pavement surrounding frame

COVER INFLOW POTENTIAL

Drainage Area 1:
 5 X 5 X 0.9 = 22.5 (SQFT)

Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 3 | | | Missing mortar, loose and broken bricks |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

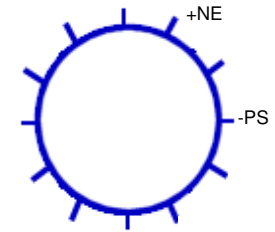
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | East | 09' 09" | 8 | PVC | | 0 | 0 | | | 0 | |
| OUT TO | 2168 | 09' 10" | 8 | PVC | | 0 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2170 |
| Street: | 515 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



+2168
Ft. to DS MH #: PS

| | | | | | |
|---|-------------------------------|---|---|----------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 3 | X | 3 | X 0.9 = 8.1 (SQFT) |
| Cracked pavement surrounding frame | | Drainage Area 2: (if applicable) | | Holes In Cover | QTY SIZE (In) 2 1 |
| | | X | X | 0.3 | = (SQFT) |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|----------------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 2 | | | Missing mortar |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NE | 12' 00" | 8 | PVC | | 0.10 | 0 | | | 0 | |
| IN FROM | 2168 | 12' 00" | 8 | PVC | | 0.10 | 0 | | | 0 | |
| OUT TO | PS | 12' 03" | 8 | PVC | | 0.20 | 0 | | | 0 | |

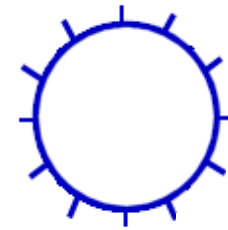
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2405 |
| Street: | 135 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | QTY 2 SIZE (In) 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |



-2412

Ft. to DS MH #: 2412

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2412 | 08' 08" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

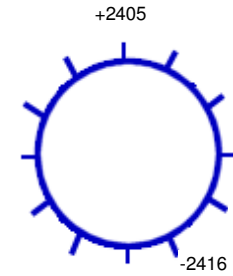
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2412 |
| Street: | 170 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2416

| | | | | | |
|---|-------------------------------|---|----------------|------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | QTY | SIZE (In) |
| | | 2 X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 | 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 2405 | 07' 00" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 2416 | 07' 01" | 8 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

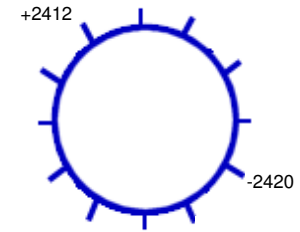
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2416 |
| Street: | 200 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 0 | X 0 X 0.9 = 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 2420

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2412 | 07' 02" | 8 | PVC | | 0.30 | 0 | | | 0 | |
| OUT TO | 2420 | 07' 03" | 8 | PVC | | 0.30 | 0 | | | 0 | |

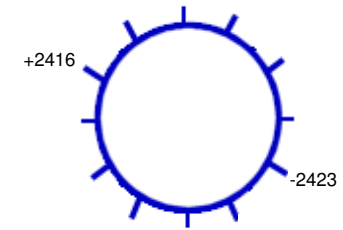
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2420 |
| Street: | 230 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-----|---|------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: AT | In. | 0 X 0 X 0.9 = | 0.0 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 2423

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2416 | 07' 00" | 8 | PVC | | 0.60 | 0 | | | 0 | |
| OUT TO | 2423 | 07' 01" | 8 | PVC | | 0.60 | 0 | | | 0 | |

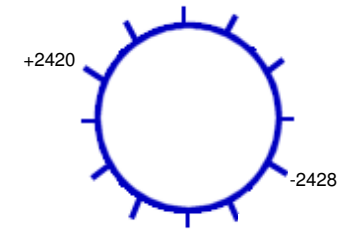
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2423 |
| Street: | 265 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 0.3 In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



Ft. to DS MH #: 2428

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | | Image Path: |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|--------------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
| IN FROM | 2420 | 07' 01" | 8 | PVC | | 0.70 | 0 | | | 0 | |
| OUT TO | 2428 | 07' 02" | 8 | PVC | | 0.70 | 0 | | | 0 | |

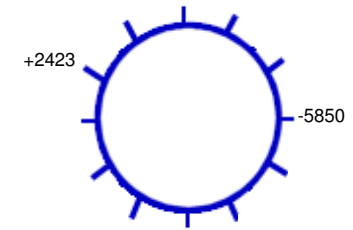
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2428 |
| Street: | 300 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|-------------------------------|---|--|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 3 X 3 X 0.9 = 8.1 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | QTY | SIZE (In) |



Ft. to DS MH #: 5850

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

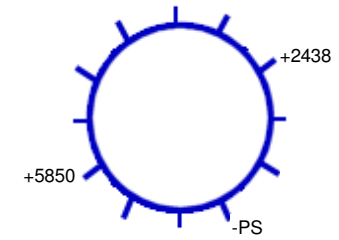
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2423 | 07' 02" | 8 | PVC | | 1.00 | 0.25 | | | 0 | |
| OUT TO | 5850 | 07' 03" | 8 | PVC | | 0.75 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2432 |
| Street: | 305 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: PS

| | | | | | |
|---|-------------------------------|----------------------------------|------------|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | | | | |
| | | Drainage Area 1: | | | |
| | | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

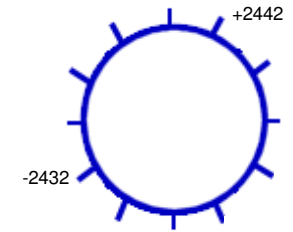
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2438 | 07' 01" | 8 | PVC | | 1.00 | 0 | | | 0 | |
| IN FROM | 5850 | 07' 06" | 8 | PVC | | 1.00 | 0 | | | 0 | |
| OUT TO | PS | 07' 08" | 8 | PVC | | 1.00 | 0 | | | 0 | |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2438 |
| Street: | 335 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 2432

| | | | | | |
|---|--------------------------------------|---|---|-----------------------|----------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | 0 | X | 0 | X 0.9 = 0.0 (SQFT) |
| Blind flange | | Drainage Area 2: (if applicable) | | Holes In Cover | QTY SIZE (In) |
| | | X | X | 0.3 = (SQFT) | 2 1 |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2442 | 06' 05" | 8 | PVC | | 0.30 | 0 | | | 0 | |
| OUT TO | 2432 | 06' 06" | 8 | PVC | | 0.30 | 0 | | | 0 | |

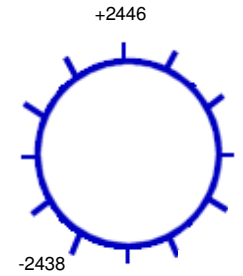
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 370 FW Hartford Drive
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: **2442**
 Sub-System: **P2A**



Ft. to DS MH #: 2438

COVER CHARACTERISTICS / COMMENTS
 Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Blind flange

COVER INFLOW POTENTIAL
 Drainage Area 1:
 0 X 0 X 0.9 = 0.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2446 | 07' 06" | 8 | PVC | | 0.25 | 0 | | | 0 | |
| OUT TO | 2438 | 07' 07" | 8 | PVC | | 0.25 | 0 | | | 0 | |

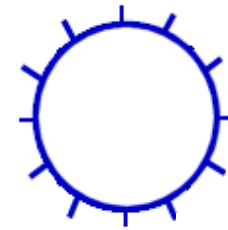
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2446 |
| Street: | 405 FW Hartford Drive | | | Sub-System: | P2A |
| Inspection Date: | 6/21/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.5 In. | 3 | X 3 X 0.9 = 8.1 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



-2442

Ft. to DS MH #: 2442

General Comments: Starter manhole

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| OUT TO | 2442 | 06' 07" | 8 | PVC | | 0 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

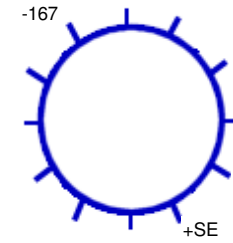
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2668 |
| Street: | FW Hartford Drive Easement | | | Sub-System: | P2A |
| Inspection Date: | 6/22/2017 | Inspector: | RV/JC | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | ABOVE 0.5 In. | 2 X 2 X 0.9 = | 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X X 0.3 = | (SQFT) | | |



Ft. to DS MH #: 167

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PARGED | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | PARGED | 1 | | | |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 07' 10" | 15 | RCP | | 4.00 | 0 | | | 0 | |
| OUT TO | 167 | 07' 11" | 15 | RCP | | 4.00 | 0 | | | 0 | |

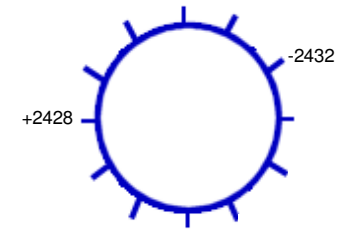
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
 Street: 305 FW Hartford Road
 Inspection Date: 6/21/2017 Inspector: RV/JC Prefix #:
 Weather: CLEAR Temp: 0 Time:

Manhole No.: 5850
 Sub-System: P2A



Ft. to DS MH #: 2432

COVER CHARACTERISTICS / COMMENTS

Buried: ☐ CNL: ☐ CNI: ☐
 Grade: AT In.
 Blind flange

COVER INFLOW POTENTIAL

Drainage Area 1:
 0 X 0 X 0.9 = 0.0 (SQFT)
 Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 2 1

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|---------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK/PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT Currently: Feet Marks To: Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 2428 | 07' 04" | 8 | PVC | | 0.75 | 0 | | | 0 | |
| OUT TO | 2432 | 07' 05" | 8 | PVC | | 0.75 | 0 | | | 0 | |

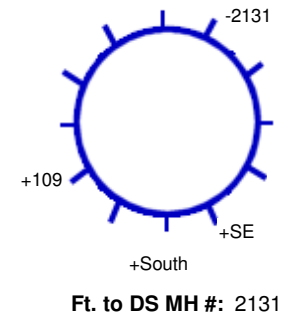
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 108 |
| Street: | Edmund Avenue near Fairview Avenue | | | Sub-System: | M1 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|----------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | -- -- |
| Cracked pavement surrounding manhole, cover cracked | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Wet walls and mud |
| FLOOR | BRICK | 2 | | | Wet floor and mud |
| INVERT | BRICK | 2 | | | Wet invert and mud |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | SE | 07' 07" | 8 | | | 0 | 0 | | | 0 | |
| IN FROM | South | 03' 04" | 2 | | | 0 | 0 | | | 0 | Inside drop |
| IN FROM | 109 | 08' 05" | 8 | | | 0.25 | 0 | | | 0 | |
| OUT TO | 2131 | 08' 05" | 8 | | | 0.25 | 0 | | | 0 | |

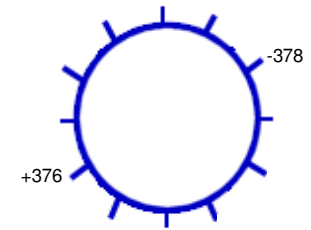
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 377 |
| Street: | Greenleaf Woods Drive | | | Sub-System: | LR4 |
| Inspection Date: | 9/7/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 378

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Missing mortar, missing brick |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 4 | 6 | | Missing mortar and pieces, mineral deposits, pipe connection leak |
| FLOOR | BRICK | 4 | 6 | | Missing mortar, mineral deposits, pipe connection leak |
| INVERT | BRICK | 2 | | | Missing mortar, missing brick |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 376 | 13' 07" | | | | 2.00 | 0 | | | 0 | |
| OUT TO | 378 | 13' 08" | | | | 2.00 | 0 | | | 0 | |

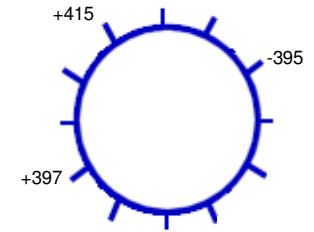
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 396 |
| Street: | 380 Greenleaf Woods Drive | | | Sub-System: | LR4 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|-------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | BELOW 0.75 In. | 5 | X 5 X 0.9 = 22.5 (SQFT) | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 395

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Voids visible |
| FLOOR | BRICK | 3 | | | Voids visible |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|------------------------------|
| IN FROM | 397 | 06' 05" | 10 | ACP | | 0.75 | 0 | | | 0 | Pipe connection leak 0.5 GPM |
| IN FROM | 415 | 06' 03" | 8 | ACP | | 0.75 | 0 | | | 0 | |
| OUT TO | 395 | 06' 06" | 10 | ACP | | 0.75 | 0 | | | 0 | |

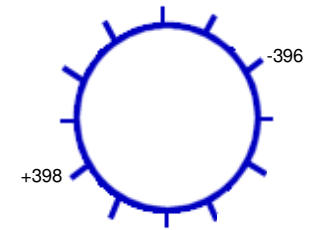
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 397 |
| Street: | 404 Greenleaf Avenue | | | Sub-System: | LR4 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 1 1 |
| | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 396

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 2 | | | Broken and missing brick, missing mortar, mud |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 2 | | | Mud |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 398 | 07' 06" | 10 | ACP | | 1.50 | 0 | | | 0 | |
| OUT TO | 396 | 07' 06" | 10 | ACP | | 1.50 | 0 | | | 0 | |

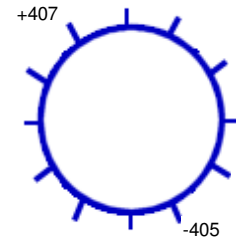
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------|-------------------|-------|---------------------|------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 406 |
| Street: | 100 Peverly Hill Road | | | Sub-System: | LR4 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 405

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|-------------------------------|
| IN FROM | 407 | 07' 02" | 8 | ACP | | 1.00 | 0 | | | 0 | Pipe connection leak 0.25 GPM |
| OUT TO | 405 | 07' 02" | 8 | ACP | | 1.00 | 0 | | | 0 | Pipe connection leak 0.1 GPM |

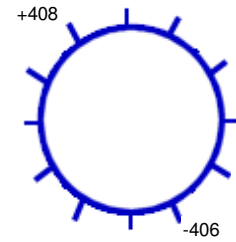
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|--|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 407 |
| Street: | Peverly Hill Road at McClintock Avenue | | | Sub-System: | LR4 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 406

| | |
|--------------------------|--|
| General Comments: | |
|--------------------------|--|

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | PRECAST | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

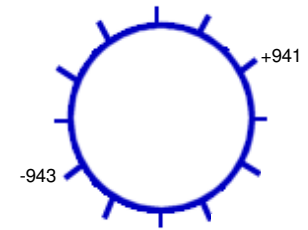
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|------------------------------|
| IN FROM | 408 | 07' 00" | 8 | ACP | | 0.75 | 0 | | | 0 | |
| OUT TO | 406 | 08' 01" | 8 | ACP | | 0.75 | 0 | | | 0 | Pipe connection leak 0.5 GPM |

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-------------------|-------------------|-------|---------------------|-----|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 942 |
| Street: | 131 Spinnaker Way | | | Sub-System: | LD1 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 943

| | | | | | |
|---|-------------------------------|--|--|----------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: BELOW | 2 In. | Drainage Area 1: 5 X 5 X 0.3 = 7.5 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|---------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | CAST | 1 | | | |
| WALLS | BRICK | 3 | 0.25 | | Walls weeping |
| FLOOR | PARGED | 2 | | | Wet floor |
| INVERT | PARGED | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | 941 | 08' 06" | 8 | VCP | | 0.50 | 0 | | | 0 | |
| OUT TO | 943 | 08' 07" | 8 | VCP | | 0.50 | 0 | | | 0 | |

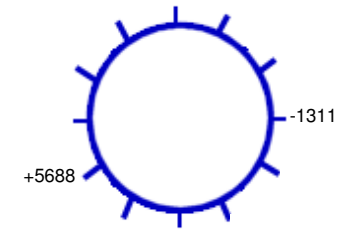
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|-----------------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 1315 |
| Street: | Sewall Road at Spinney Road | | | Sub-System: | HS11 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

| | | | | | |
|---|--|---|------------------------|-----------------------|------------------|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: | <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> | Drainage Area 1: | | QTY | SIZE (In) |
| Grade: | AT In. | 2 | X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange | | Drainage Area 2: (if applicable) | | | |
| | | X | X 0.3 = (SQFT) | | |



Ft. to DS MH #: 1311

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | VINYL COATED | 1 | | | |
| WALLS | PRECAST | 3 | | | Walls weeping at seams, appears to be no seal at joints |
| FLOOR | BRICK | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 5688 | 04' 07" | 8 | PVC | | 0.25 | 0 | | | 0 |
| OUT TO | 1311 | 08' 07" | 8 | PVC | | 0.25 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

Line Comments

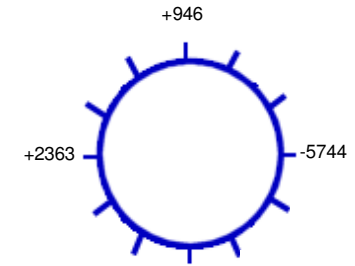
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|---------------------------------|-------------------|-------|---------------------|-------------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2362 |
| Street: | Kearsarge Road at Market Street | | | Sub-System: | LD1 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |

N



Ft. to DS MH #: 5744

| | | | | | |
|---|-------------------------------|---|--|-----------------------|-----|
| COVER CHARACTERISTICS / COMMENTS | | COVER INFLOW POTENTIAL | | | |
| Buried: <input type="checkbox"/> | CNL: <input type="checkbox"/> | CNI: <input type="checkbox"/> | | | |
| Grade: AT | In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | | Holes In Cover | 2 1 |
| | | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|----------------------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 0 | 0.25 | | Wet walls, wall leak |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK | 3 | 0.5 | | Invert leak |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

| LINE CONDITIONS | | | | | | | | | | |
|------------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|
| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 |
| IN FROM | 946 | 09' 08" | 8 | ACP | | 0.25 | 0 | | | 0 |
| IN FROM | 2363 | 09' 07" | 8 | ACP | | 1.00 | 0 | | | 0 |
| OUT TO | 5744 | 09' 10" | 8 | ACP | | 1.00 | 0 | | | 0 |

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

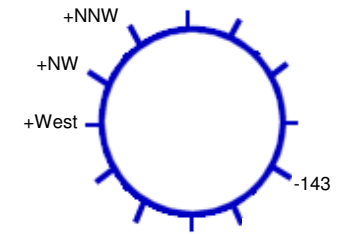
Line Comments

Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



| | | | | | |
|-------------------------|------------------|-------------------|-------|---------------------|------|
| Municipality: | Portsmouth, NH | | | Manhole No.: | 2646 |
| Street: | 33 Robert Avenue | | | Sub-System: | LR6 |
| Inspection Date: | 9/8/2017 | Inspector: | RV/JP | Prefix #: | |
| Weather: | CLEAR | Temp: | 0 | Time: | |



Ft. to DS MH #: 143

| COVER CHARACTERISTICS / COMMENTS | COVER INFLOW POTENTIAL | QTY | SIZE (In) |
|---|---|----------------|-----------|
| Buried: <input type="checkbox"/> CNL: <input type="checkbox"/> CNI: <input type="checkbox"/> Grade: AT In. | Drainage Area 1: 2 X 2 X 0.9 = 3.6 (SQFT) | Holes In Cover | 2 1 |
| Blind flange, Bolt down cover | Drainage Area 2: (if applicable) X X 0.3 = (SQFT) | | |

General Comments:

INTERNAL MANHOLE OBSERVATIONS Clear Opening Dia.: In. Inside Frame Dia.: 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|----------|-----------|-------------|-------|--|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 3 | | | Mineral deposits |
| FLOOR | BRICK | 2 | | | Void visible at outgoing pipe connection |
| INVERT | BRICK | 2 | | | Void visible at outgoing pipe connection |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|---------------|
| IN FROM | NNW | 05' 06" | 4 | PVC | | 0.10 | 0 | | | 0 | |
| IN FROM | NW | 05' 10" | 8 | PVC | | 0.25 | 0 | | | 0 | |
| IN FROM | West | 05' 05" | 4 | PVC | | 0.10 | 0 | | | 0 | Inside drop |
| OUT TO | 143 | 05' 11" | 8 | PVC | | 0.25 | 0 | | | 0 | |

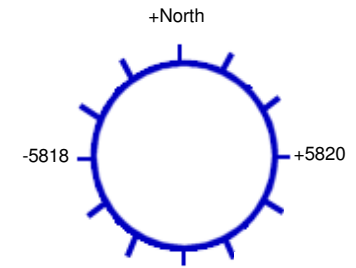
Flow Assessment Services, LLC. Structure Inspection Log

☒ Surface ☐ Internal



Municipality: Portsmouth, NH
Street: Aldrich Road at Aldrich Court
Inspection Date: 9/8/2017 **Inspector:** RV/JP **Prefix #:**
Weather: CLEAR **Temp:** 0 **Time:**

Manhole No.: 5819
Sub-System: HS11



Ft. to DS MH #: 5818

COVER CHARACTERISTICS / COMMENTS
Buried: ☐ **CNL:** ☐ **CNI:** ☐
Grade: AT In.
 Manhole in gutter line

COVER INFLOW POTENTIAL
Drainage Area 1:
 20 X 5 X 0.9 = 90.0 (SQFT)
Drainage Area 2: (if applicable)
 X X 0.3 = (SQFT)

Holes In Cover QTY SIZE (In)
 -- --

General Comments:

INTERNAL MANHOLE OBSERVATIONS

Clear Opening Dia.: In. **Inside Frame Dia.:** 0 In.

| ITEM | MATERIAL | CONDITION | Leaks (gpm) | Photo | DEFECTS |
|--------|--------------|-----------|-------------|-------|---------|
| FRAME | CAST | 1 | | | |
| CORBEL | BRICK | 1 | | | |
| STEPS | NONE | 0 | | | |
| WALLS | PRECAST | 1 | | | |
| FLOOR | BRICK/PARGED | 1 | | | |
| INVERT | BRICK | 1 | | | |



Surcharge From Invert: NONE EVIDENT **Currently:** Feet **Marks To:** Feet

LINE CONDITIONS

Image Path: P:\Portsmouth NH 17046\MH INSPECTION REPORT

| Direction (In / Out) | Connect MH # | Rim To Invert Depth | Pipe Dia. (In.) | Pipe Material | Joint Length | Flow Depth (In.) | Debris Depth (In.) | Pipe Conn Leak (gpm) | Photo | Line Cond 1-5 | Line Comments |
|----------------------|--------------|---------------------|-----------------|---------------|--------------|------------------|--------------------|----------------------|-------|---------------|-------------------------------|
| IN FROM | North | 07' 06" | 6 | PVC | | 0 | 0 | | | 0 | |
| IN FROM | 5820 | 07' 06" | 8 | PVC | | 0.25 | 0 | | | 0 | Pipe connection leak 1.25 GPM |
| OUT TO | 5818 | 07' 08" | 8 | PVC | | 0.25 | 0 | | | 0 | |





















































B-106











































30

09.08.2017 09:13





09.08.2017 09:16

ER

09.08.2017 09:16









06.22.2017 16:21



06.22.2017 16:29









































06.22.2017 09:53



06.22.2017 09:52

















06.22.2017 09:04



06.22.2017 08:52





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Place

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N





06.21.2017 11:23



06.21.2017 11:21





06.21.2017 11:18



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06.21.2017 11:09



06.21.2017 11:08



06.21.2017 11:04



06.21.2017 11:02

















09.07.2017 16:16































09.08.2017 08:21



09.08.2017 08:23



09.08.2017 08:24



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09.08.2017 08:02



09.08.2017 08:42



09.08.2017 08:44



09.08.2017 08:50



09.08.2017 08:52















06.21.2017 15:12



06.21.2017 15:09



06.21.2017 15:17



06.21.2017 15:16



06.21.2017 11:48







Patient
Parking
←
ONLY



06.22.2017 15:07



06.22.2017 15:05





06.22.2017 12:38



06.22.2017 11:48



06.22.2017 11:35





























































































06.21.2017 14:45



06.21.2017 14:43





06.21.2017 14:38



06.21.2017 14:37



06.21.2017 14:25



06.21.2017 14:24





06.21.2017 13:56







06.21.2017 13:50



06.21.2017 13:48





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06.21.2017 12:36



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06.21.2017 13:20

























































06.21.2017 12:25



06.21.2017 12:23



06.22.2017 10:54





06.22.2017 10:31





06.22.2017 10:25



06.22.2017 10:24















06.20.2017 15:31



06.20.2017 15:26





06.20.2017 14:53



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06.20.2017 14:04



06.20.2017 13:56



06.20.2017 12:12







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06.23.2017 09:52



























06.22.2017 16:38















06.23.2017 14:05





06.23.2017 13:48



06.23.2017 14:04





06.23.2017 14:01





06.23.2017 10:19





06.23.2017 09:43



06.23.2017 09:10





06.23.2017 08:14



06.23.2017 08:10



06.23.2017 09:19



06.23.2017 09:16



06.23.2017 09:04



06.23.2017 09:02





06.23.2017 08:26





























06.23.2017 11:41



06.23.2017 11:35



06.23.2017 11:34





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06.23.2017 11:26





06.23.2017 13:17



06.23.2017 13:15





06.23.2017 12:16



Hillside

06.23.2017 12:14





06.23.2017 12:35





06.23.2017 12:34



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06.23.2017 12:39



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06.23.2017 12:51





09.08.2017 09:34





09.08.2017 09:42





4













FLOW
FORENSIC LIAISON UNIT







































































NO PARKING
IN FRONT
OF
BUSINESS
HOURS





































NO PARKING
ANYTIME
DUE TO
LOADS























SPEED
LIMIT
20





























































06.27.2017 00:37









09.08.2017 10:42



































06.22.2017 15:37

























06.21.2017 16:06



06.21.2017 16:04



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06.21.2017 16:50





























































































06.21.2017 09:40



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06.21.2017 14:00





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06.21.2017 14:30























































09.08.2017 09:54



09.08.2017 09:58



09.08.2017 10:04





















06.23.2017 13:25



06.23.2017 13:23







06.20.2017 15:54



06.20.2017 15:42





06.20.2017 12:21





06.20.2017 12:35



06.20.2017 12:21













06.21.2017 11:00



06.21.2017 10:58





06.21.2017 10:55



06.21.2017 10:53









06.21.2017 10:46









06.21.2017 10:40







06.21.2017 10:36















FLOW
ASSESSMENT SERVICES





06.21.2017 10:12



06.21.2017 10:09











06.21.2017 10:01



06.21.2017 09:57











06.21.2017 10:03



06.21.2017 09:54



















06.21.2017 09:45





















































































































































































































































































































































3105X112

3105X112



























FLOWAs

20 4055















FLOWAssess

320 4055





































09.08.2017 11:02



09.08.2017 11:04



09.08.2017 11:07













































06.22.2017 09:13



06.22.2017 09:08











06.22.2017 11:04



06.22.2017 11:03



























06.21.2017 15:38



06.21.2017 15:36







06.22.2017 13:19



06.22.2017 13:13



06.22.2017 16:42



06.22.2017 16:41





Regus

























06.23.2017 11:05



06.23.2017 10:56



06.23.2017 10:54





06.22.2017 11:13



06.22.2017 11:12







06.22.2017 12:24



06.22.2017 14:31



06-22-2017 14:30





06.22.2017 14:19



06.22.2017 14:17





06.23.2017 13:43



06.23.2017 13:09



06.23.2017 13:08



06.23.2017 13:01



06.23.2017 12:59







06.23.2017 10:38





Infinite Imaging



933 Islington Street

CREATIVE
DESIGN

EXPERT
PRINTING

PROMOTIONAL
PRODUCTS
VEHICLE
GRAPHICS







OPEN MONDAY
JULY 3RD
9-5

KITCHENS





























PRECISION AUTO SERVICE















Life is
better
on a
bike.

































06.21.2017 12:32



06.21.2017 12:30













09.08.2017 10:22





06.22.2017 15:26



06.22.2017 15:24



06.22.2017 15:53



06.22.2017 15:50





06.22.2017 16:01



06.22.2017 15:57











06.22.2017 15:32





06.21.2017 10:16



06.21.2017 10:14



06.23.2017 10:04



06.23.2017 10:02





06.22.2017 13:56



06.22.2017 12:05



06.22.2017 12:06



06.22.2017 12:04





06.22.2017 12:19



06.22.2017 12:17