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BEFORE THE PUBLIC UTILITIES COMMISSION OF NEVADA

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In the Matter of:

Docket No. 24-_____

Application of Great Basin Water Co.,
Pahrump, Spring Creek, Cold Springs,
Pahrump, and Spanish Springs Divisions for
Approval of its 2024 Integrated Resource
Plan and to designate certain system
improvement projects as eligible projects for
which a system improvement rate may be
established, and for relief properly related
thereto.

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Document Description

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Appendix M, Part 5

2

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-1-PH19 | 0 | 5,151 | 5,281 | 56.59 | Zone 4 |
| J-757 | 7.27 | 5,150 | 5,281 | 56.91 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,322 | 56.94 | Zone 1 |
| J-53 | 16.14 | 5,049 | 5,181 | 57.15 | Zone 2 |
| J-63 | 18.67 | 5,047 | 5,179 | 57.33 | Zone 2 |
| J-193 | 8.98 | 5,175 | 5,308 | 57.44 | Zone 1 |
| J-1246 | 0 | 5,049 | 5,182 | 57.66 | Zone 2 |
| J-3 | 0 | 5,179 | 5,313 | 57.74 | Zone 1 |
| J-55 | 10.76 | 5,047 | 5,181 | 57.94 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 58 | Zone 2 |
| J-50 | 10.76 | 5,046 | 5,180 | 58.06 | Zone 2 |
| J-393 | 8.72 | 5,147 | 5,281 | 58.37 | Zone 4 |
| J-805 | 0 | 5,045 | 5,180 | 58.5 | Zone 4 |
| J-391 | 7.27 | 5,146 | 5,281 | 58.56 | Zone 4 |
| H-21-PH1 | 0 | 5,045 | 5,180 | 58.68 | Zone 4 |
| J-255 | 0 | 5,045 | 5,181 | 58.73 | Zone 2 |
| J-51 | 8.07 | 5,045 | 5,181 | 58.98 | Zone 2 |
| J-56 | 16.14 | 5,044 | 5,180 | 59.04 | Zone 2 |
| J-140 | 18.9 | 5,185 | 5,322 | 59.08 | Zone 3 |
| J-15 | 10.44 | 5,045 | 5,181 | 59.26 | Zone 2 |
| ALLEYCHU | 17.91 | 5,043 | 5,181 | 59.48 | Zone 2 |
| J-42 | 5.22 | 5,043 | 5,181 | 59.51 | Zone 2 |
| J-194 | 13.45 | 5,043 | 5,181 | 59.55 | Zone 2 |
| FH-925 | 0 | 5,144 | 5,281 | 59.57 | Zone 4 |
| J-23-1188 | 2.18 | 5,143 | 5,281 | 59.73 | Zone 4 |
| J-54 | 0 | 5,045 | 5,183 | 59.74 | Zone 2 |
| J-52 | 6.28 | 5,043 | 5,181 | 59.78 | Zone 2 |
| J22-901 | 0 | 5,142 | 5,281 | 60.03 | Zone 4 |
| J-797 | 16.14 | 5,047 | 5,185 | 60.05 | Zone 2 |
| J-23-1197 | 0 | 5,142 | 5,281 | 60.08 | Zone 4 |
| J-23-1193 | 5.09 | 5,142 | 5,281 | 60.12 | Zone 4 |
| J-23-1190 | 1.45 | 5,142 | 5,281 | 60.12 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,281 | 60.14 | Zone 4 |
| J-23-1189 | 2.18 | 5,142 | 5,281 | 60.14 | Zone 4 |
| J-23-1187 | 1.45 | 5,142 | 5,281 | 60.2 | Zone 4 |
| J-482 | 0 | 5,142 | 5,281 | 60.24 | Zone 4 |
| J-142 | 9.45 | 5,182 | 5,321 | 60.3 | Zone 3 |
| J-830 | 0 | 5,141 | 5,281 | 60.35 | Zone 4 |
| NDYKEW | 0 | 5,046 | 5,185 | 60.49 | Zone 2 |
| J-1262 | 5.22 | 5,172 | 5,312 | 60.57 | Zone 1 |
| PRENOTR | 5.22 | 5,042 | 5,183 | 60.9 | Zone 2 |
| J-1184 | 0 | 5,140 | 5,281 | 60.96 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,281 | 61.02 | Zone 4 |
| J-679 | 12.36 | 5,140 | 5,281 | 61.03 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,281 | 61.06 | Zone 4 |
| H-68-PH1 | 0 | 5,139 | 5,281 | 61.3 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-836 | 6.54 | 5,139 | 5,281 | 61.35 | Zone 4 |
| J-819 | 0 | 5,139 | 5,281 | 61.38 | Zone 4 |
| J-685 | 0 | 5,139 | 5,281 | 61.39 | Zone 4 |
| J-829 | 0 | 5,139 | 5,281 | 61.54 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,281 | 61.57 | Zone 4 |
| J-390 | 0 | 5,139 | 5,281 | 61.58 | Zone 4 |
| H-67-PH1 | 0 | 5,138 | 5,281 | 61.68 | Zone 4 |
| J-652 | 11.23 | 5,148 | 5,290 | 61.7 | Zone 1 |
| J-841 | 0 | 5,138 | 5,281 | 61.82 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,281 | 61.92 | Zone 4 |
| J-820 | 0 | 5,137 | 5,281 | 62.44 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,281 | 62.48 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,281 | 62.5 | Zone 4 |
| J-815 | 8.34 | 5,136 | 5,281 | 62.76 | Zone 4 |
| PH22-FH | 0 | 5,136 | 5,281 | 62.82 | Zone 4 |
| J-678 | 0 | 5,135 | 5,281 | 63.33 | Zone 4 |
| J-352 | 9.45 | 5,134 | 5,281 | 63.68 | Zone 4 |
| J-4 | 14.2 | 5,163 | 5,311 | 63.93 | Zone 1 |
| FH-922 | 0 | 5,134 | 5,281 | 63.96 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,281 | 64.11 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,281 | 64.12 | Zone 4 |
| J-810 | 0 | 5,133 | 5,281 | 64.23 | Zone 4 |
| J-816 | 8.72 | 5,132 | 5,281 | 64.39 | Zone 4 |
| J-187 | 0 | 5,173 | 5,322 | 64.44 | Zone 3 |
| J-730 | 0 | 5,131 | 5,281 | 64.77 | Zone 4 |
| J-806 | 0 | 5,131 | 5,281 | 64.84 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,281 | 64.91 | Zone 4 |
| J-732 | 0 | 5,131 | 5,281 | 64.92 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,281 | 65.03 | Zone 4 |
| J-677 | 14.54 | 5,130 | 5,281 | 65.31 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,281 | 65.4 | Zone 4 |
| J-23-1195 | 2.18 | 5,130 | 5,281 | 65.41 | Zone 4 |
| J-23-1196 | 2.91 | 5,130 | 5,281 | 65.41 | Zone 4 |
| J-688 | 8.34 | 5,130 | 5,281 | 65.42 | Zone 4 |
| J-811 | 9.45 | 5,130 | 5,281 | 65.43 | Zone 4 |
| J-145 | 8.72 | 5,170 | 5,321 | 65.48 | Zone 3 |
| FH-923 | 0 | 5,130 | 5,281 | 65.48 | Zone 4 |
| J-23-1194 | 3.64 | 5,130 | 5,281 | 65.52 | Zone 4 |
| J-807 | 8 | 5,129 | 5,281 | 65.74 | Zone 4 |
| J-687 | 0 | 5,129 | 5,281 | 65.76 | Zone 4 |
| J-23-1197 | 2.18 | 5,129 | 5,281 | 65.85 | Zone 4 |
| J-675 | 0 | 5,129 | 5,281 | 65.99 | Zone 4 |
| J-141 | 8 | 5,169 | 5,321 | 66.15 | Zone 3 |
| J-839 | 0 | 5,128 | 5,281 | 66.31 | Zone 4 |
| J-448 | 12.35 | 5,134 | 5,288 | 66.41 | Zone 1 |
| H-69-PH1 | 0 | 5,127 | 5,281 | 66.46 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-483 | 0 | 5,128 | 5,281 | 66.55 | Zone 4 |
| J-676 | 0 | 5,127 | 5,281 | 66.58 | Zone 4 |
| FH-930 | 0 | 5,127 | 5,281 | 66.71 | Zone 4 |
| J-443 | 7.27 | 5,127 | 5,281 | 66.87 | Zone 4 |
| J-576 | 8.72 | 5,126 | 5,281 | 67.05 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,281 | 67.07 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,281 | 67.21 | Zone 4 |
| J-842 | 6.54 | 5,126 | 5,281 | 67.22 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,281 | 67.3 | Zone 4 |
| H-66-PH1 | 0 | 5,125 | 5,281 | 67.4 | Zone 4 |
| J-844 | 3.64 | 5,125 | 5,281 | 67.57 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,281 | 67.71 | Zone 4 |
| J-736 | 10.18 | 5,124 | 5,281 | 67.83 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,281 | 68.11 | Zone 4 |
| J-817 | 0 | 5,122 | 5,281 | 68.72 | Zone 4 |
| J-846 | 0 | 5,122 | 5,281 | 68.86 | Zone 4 |
| J-690 | 0 | 5,122 | 5,281 | 68.96 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,281 | 68.96 | Zone 4 |
| J-674 | 0 | 5,121 | 5,281 | 69.14 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,281 | 69.21 | Zone 4 |
| J-808 | 0 | 5,121 | 5,281 | 69.3 | Zone 4 |
| H-65-PH1 | 0 | 5,121 | 5,281 | 69.3 | Zone 4 |
| J-843 | 0 | 5,121 | 5,281 | 69.31 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,281 | 69.33 | Zone 4 |
| J-812 | 0 | 5,121 | 5,281 | 69.33 | Zone 4 |
| J-143 | 6.54 | 5,161 | 5,321 | 69.43 | Zone 3 |
| FH-924 | 0 | 5,120 | 5,281 | 69.61 | Zone 4 |
| J-389 | 2.91 | 5,120 | 5,281 | 69.7 | Zone 4 |
| J-23-1201 | 2.91 | 5,119 | 5,281 | 70 | Zone 4 |
| J-23-1202 | 3.64 | 5,119 | 5,281 | 70.12 | Zone 4 |
| J-348 | 7.27 | 5,119 | 5,281 | 70.26 | Zone 4 |
| J-813 | 8.72 | 5,118 | 5,281 | 70.51 | Zone 4 |
| J-818 | 8 | 5,118 | 5,281 | 70.54 | Zone 4 |
| J-680 | 9.45 | 5,118 | 5,281 | 70.64 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,281 | 70.72 | Zone 4 |
| J-184 | 8.34 | 5,118 | 5,281 | 70.73 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,281 | 70.76 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,281 | 70.8 | Zone 4 |
| J-823 | 0 | 5,117 | 5,281 | 70.81 | Zone 4 |
| J-809 | 8 | 5,117 | 5,281 | 70.82 | Zone 4 |
| J-729 | 0 | 5,117 | 5,281 | 70.99 | Zone 4 |
| J-189 | 0 | 5,145 | 5,310 | 71.21 | Zone 1 |
| J-735 | 0 | 5,116 | 5,281 | 71.4 | Zone 4 |
| J-851 | 5.82 | 5,116 | 5,281 | 71.44 | Zone 4 |
| H-61-PH1 | 0 | 5,116 | 5,281 | 71.44 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,281 | 71.46 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-346 | 0 | 5,116 | 5,281 | 71.55 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,281 | 71.61 | Zone 4 |
| J-770 | 0 | 5,115 | 5,281 | 71.62 | Zone 4 |
| J-833 | 0 | 5,115 | 5,281 | 71.7 | Zone 4 |
| H-64-PH1 | 0 | 5,115 | 5,281 | 71.72 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,281 | 71.74 | Zone 4 |
| J-840 | 7.27 | 5,115 | 5,281 | 71.87 | Zone 4 |
| J-845 | 7.27 | 5,115 | 5,281 | 71.94 | Zone 4 |
| J-190 | 0 | 5,143 | 5,309 | 71.99 | Zone 1 |
| H-70-PH1 | 0 | 5,115 | 5,281 | 72.01 | Zone 4 |
| J22-886 | 2.18 | 5,114 | 5,281 | 72.18 | Zone 4 |
| J-814 | 0 | 5,114 | 5,281 | 72.19 | Zone 4 |
| H-58-PH1 | 0 | 5,114 | 5,281 | 72.27 | Zone 4 |
| J-855 | 6.54 | 5,114 | 5,281 | 72.31 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,281 | 72.35 | Zone 4 |
| J22-884 | 2.18 | 5,114 | 5,281 | 72.41 | Zone 4 |
| J-646 | 17.96 | 5,123 | 5,290 | 72.42 | Zone 1 |
| H-60-PH1 | 0 | 5,114 | 5,281 | 72.44 | Zone 4 |
| J-832 | 0 | 5,113 | 5,281 | 72.48 | Zone 4 |
| J22-1079 | 4.86 | 5,113 | 5,281 | 72.5 | Zone 4 |
| J22-1159 | 2.18 | 5,113 | 5,281 | 72.51 | Zone 4 |
| J-442 | 8 | 5,114 | 5,281 | 72.52 | Zone 4 |
| J-852 | 5.82 | 5,113 | 5,281 | 72.54 | Zone 4 |
| J22-1158 | 2.18 | 5,113 | 5,281 | 72.54 | Zone 4 |
| J-689 | 6.54 | 5,113 | 5,281 | 72.56 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,281 | 72.56 | Zone 4 |
| H-59-PH1 | 0 | 5,113 | 5,281 | 72.59 | Zone 4 |
| J-856 | 6.54 | 5,113 | 5,281 | 72.6 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,281 | 72.63 | Zone 4 |
| J-650 | 0 | 5,113 | 5,281 | 72.79 | Zone 4 |
| RTOWNC | 5.22 | 5,124 | 5,292 | 72.79 | Zone 1 |
| J-139 | 0 | 5,153 | 5,321 | 72.96 | Zone 3 |
| J-783 | 5.09 | 5,112 | 5,281 | 73.12 | Zone 4 |
| DDLESCH | 8.34 | 5,112 | 5,281 | 73.15 | Zone 4 |
| H-20-PH1 | 0 | 5,112 | 5,281 | 73.2 | Zone 4 |
| J-653 | 11.23 | 5,121 | 5,290 | 73.2 | Zone 1 |
| J-570 | 0 | 5,112 | 5,281 | 73.21 | Zone 4 |
| J-854 | 6.54 | 5,112 | 5,281 | 73.25 | Zone 4 |
| J-441 | 8 | 5,112 | 5,281 | 73.26 | Zone 4 |
| H-57-PH1 | 0 | 5,112 | 5,281 | 73.33 | Zone 4 |
| J-434 | 5.82 | 5,112 | 5,281 | 73.33 | Zone 4 |
| J-447 | 8.98 | 5,118 | 5,288 | 73.47 | Zone 1 |
| J-734 | 0 | 5,111 | 5,281 | 73.57 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,281 | 73.7 | Zone 4 |
| J-433 | 2.91 | 5,111 | 5,281 | 73.74 | Zone 4 |
| J-195 | 0 | 5,111 | 5,281 | 73.8 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-919 | 8.72 | 5,111 | 5,281 | 73.81 | Zone 4 |
| J-681 | 0 | 5,110 | 5,281 | 73.89 | Zone 4 |
| H-72-PH1 | 0 | 5,110 | 5,281 | 73.93 | Zone 4 |
| J-645 | 0 | 5,119 | 5,290 | 73.96 | Zone 1 |
| J22-887 | 0 | 5,110 | 5,281 | 74.05 | Zone 4 |
| J22-1082 | 8.34 | 5,110 | 5,281 | 74.14 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,281 | 74.23 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,281 | 74.25 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,281 | 74.36 | Zone 4 |
| J-649 | 0 | 5,109 | 5,281 | 74.42 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,281 | 74.5 | Zone 4 |
| J22-1161 | 2.18 | 5,109 | 5,281 | 74.56 | Zone 4 |
| J-835 | 0 | 5,109 | 5,281 | 74.57 | Zone 4 |
| J-834 | 0 | 5,109 | 5,281 | 74.61 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,281 | 74.63 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,281 | 74.64 | Zone 4 |
| H-62-PH1 | 0 | 5,108 | 5,281 | 74.7 | Zone 4 |
| J22-1163 | 2.18 | 5,108 | 5,281 | 74.84 | Zone 4 |
| J-731 | 0 | 5,108 | 5,281 | 74.85 | Zone 4 |
| J-571 | 0 | 5,108 | 5,281 | 74.9 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,281 | 74.98 | Zone 4 |
| J-286 | 22.88 | 5,108 | 5,281 | 75.1 | Zone 4 |
| J-847 | 0 | 5,107 | 5,281 | 75.22 | Zone 4 |
| J-642 | 0 | 5,107 | 5,281 | 75.37 | Zone 4 |
| J22-890 | 1.45 | 5,107 | 5,281 | 75.38 | Zone 4 |
| J-306 | 8.98 | 5,134 | 5,308 | 75.38 | Zone 1 |
| J-328 | 0 | 5,114 | 5,288 | 75.46 | Zone 1 |
| J22-1069 | 0 | 5,107 | 5,281 | 75.46 | Zone 4 |
| J-5 | 8.98 | 5,133 | 5,308 | 75.63 | Zone 1 |
| J-284 | 11.63 | 5,106 | 5,281 | 75.72 | Zone 4 |
| J-667 | 0 | 5,106 | 5,281 | 75.8 | Zone 4 |
| J-644 | 19.09 | 5,115 | 5,290 | 75.84 | Zone 1 |
| J-850 | 5.82 | 5,106 | 5,281 | 75.89 | Zone 4 |
| J-765 | 0 | 5,106 | 5,281 | 75.9 | Zone 4 |
| H-63-PH1 | 0 | 5,105 | 5,281 | 75.96 | Zone 4 |
| J-857 | 0 | 5,105 | 5,281 | 76.03 | Zone 4 |
| J-144 | 0 | 5,145 | 5,321 | 76.26 | Zone 3 |
| J-858 | 5.82 | 5,105 | 5,281 | 76.35 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,281 | 76.5 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,281 | 76.52 | Zone 4 |
| J-23-1206 | 2.18 | 5,104 | 5,281 | 76.7 | Zone 4 |
| J-769 | 0 | 5,104 | 5,281 | 76.75 | Zone 4 |
| J-853 | 0 | 5,103 | 5,281 | 76.89 | Zone 4 |
| H-19-PH1 | 0 | 5,103 | 5,281 | 76.93 | Zone 4 |
| J-764 | 8.34 | 5,103 | 5,281 | 76.93 | Zone 4 |
| J-23-1205 | 2.18 | 5,103 | 5,281 | 77.03 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-920 | 0 | 5,103 | 5,281 | 77.03 | Zone 4 |
| J-733 | 10.18 | 5,103 | 5,281 | 77.05 | Zone 4 |
| J-203 | 7.27 | 5,103 | 5,281 | 77.08 | Zone 4 |
| J-343 | 10.1 | 5,109 | 5,287 | 77.15 | Zone 1 |
| J-782 | 5.09 | 5,103 | 5,281 | 77.18 | Zone 4 |
| J-651 | 0 | 5,103 | 5,281 | 77.18 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,281 | 77.21 | Zone 4 |
| J-159 | 12.35 | 5,108 | 5,287 | 77.22 | Zone 1 |
| J-283 | 8 | 5,103 | 5,281 | 77.27 | Zone 4 |
| J22-1165 | 2.91 | 5,102 | 5,281 | 77.31 | Zone 4 |
| J-799 | 0 | 5,102 | 5,281 | 77.33 | Zone 4 |
| J22-1164 | 2.18 | 5,102 | 5,281 | 77.35 | Zone 4 |
| J22-1084 | 0 | 5,102 | 5,281 | 77.39 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,281 | 77.46 | Zone 4 |
| J-666 | 9.45 | 5,102 | 5,281 | 77.47 | Zone 4 |
| J-23-1203 | 3.64 | 5,102 | 5,281 | 77.54 | Zone 4 |
| J22-892 | 1.45 | 5,102 | 5,281 | 77.61 | Zone 4 |
| J-1071 | 0 | 5,101 | 5,281 | 77.69 | Zone 4 |
| J-768 | 0 | 5,101 | 5,281 | 77.85 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,281 | 77.87 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,281 | 78.04 | Zone 4 |
| J-683 | 9.45 | 5,101 | 5,281 | 78.04 | Zone 4 |
| J22-1166 | 0 | 5,100 | 5,281 | 78.15 | Zone 4 |
| J-432 | 2.91 | 5,101 | 5,281 | 78.18 | Zone 4 |
| H22-FH1 | 0 | 5,100 | 5,281 | 78.19 | Zone 4 |
| H-18-PH1 | 0 | 5,100 | 5,281 | 78.26 | Zone 4 |
| H-16-PH1 | 0 | 5,100 | 5,281 | 78.46 | Zone 4 |
| J-204 | 7.27 | 5,100 | 5,281 | 78.47 | Zone 4 |
| J-780 | 8.72 | 5,099 | 5,281 | 78.55 | Zone 4 |
| J-763 | 0 | 5,099 | 5,281 | 78.55 | Zone 4 |
| J22-1168 | 2.91 | 5,099 | 5,281 | 78.64 | Zone 4 |
| H-17-PH1 | 0 | 5,099 | 5,281 | 78.65 | Zone 4 |
| H22-FH1 | 0 | 5,099 | 5,281 | 78.69 | Zone 4 |
| J-196 | 0 | 5,099 | 5,281 | 78.72 | Zone 4 |
| J-334 | 0 | 5,106 | 5,288 | 78.73 | Zone 1 |
| J22-1170 | 2.91 | 5,099 | 5,281 | 78.83 | Zone 4 |
| H22-FH1 | 0 | 5,099 | 5,281 | 78.83 | Zone 4 |
| J-781 | 7.27 | 5,099 | 5,281 | 78.85 | Zone 4 |
| J-23-1204 | 3.64 | 5,099 | 5,281 | 78.87 | Zone 4 |
| J-387 | 0 | 5,126 | 5,308 | 78.9 | Zone 1 |
| J22-1147 | 0 | 5,099 | 5,281 | 78.92 | Zone 4 |
| DG3-CC0 | 4.86 | 5,099 | 5,281 | 78.95 | Zone 4 |
| J22-1086 | 0 | 5,099 | 5,281 | 78.96 | Zone 4 |
| J22-1171 | 2.91 | 5,099 | 5,281 | 78.98 | Zone 4 |
| J-715 | 0 | 5,099 | 5,281 | 78.98 | Zone 4 |
| J-728 | 0 | 5,098 | 5,281 | 79.03 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-281 | 5.82 | 5,099 | 5,281 | 79.04 | Zone 4 |
| J-779 | 0 | 5,098 | 5,281 | 79.05 | Zone 4 |
| H22-FH1 | 0 | 5,098 | 5,281 | 79.08 | Zone 4 |
| J22-896 | 0 | 5,098 | 5,281 | 79.23 | Zone 4 |
| J-704 | 8.34 | 5,098 | 5,281 | 79.25 | Zone 4 |
| J-665 | 0 | 5,098 | 5,281 | 79.3 | Zone 4 |
| J-160 | 10.1 | 5,103 | 5,287 | 79.44 | Zone 1 |
| J22-1169 | 3.64 | 5,097 | 5,281 | 79.45 | Zone 4 |
| H-15-PH1 | 0 | 5,097 | 5,281 | 79.47 | Zone 4 |
| H22-FH1 | 0 | 5,097 | 5,281 | 79.49 | Zone 4 |
| H22-FH1 | 0 | 5,097 | 5,281 | 79.53 | Zone 4 |
| J22-1172 | 6.54 | 5,097 | 5,281 | 79.54 | Zone 4 |
| J-333 | 11.23 | 5,104 | 5,288 | 79.55 | Zone 1 |
| J-639 | 0 | 5,097 | 5,281 | 79.59 | Zone 4 |
| J-767 | 8.34 | 5,097 | 5,281 | 79.6 | Zone 4 |
| J-484 | 8 | 5,097 | 5,281 | 79.61 | Zone 4 |
| J-705 | 0 | 5,097 | 5,281 | 79.65 | Zone 4 |
| J-778 | 10.91 | 5,097 | 5,281 | 79.69 | Zone 4 |
| J-671 | 8.34 | 5,097 | 5,281 | 79.79 | Zone 4 |
| J-613 | 0 | 5,097 | 5,281 | 79.84 | Zone 4 |
| J22-898 | 0 | 5,097 | 5,281 | 79.85 | Zone 4 |
| J-329 | 8.98 | 5,103 | 5,288 | 79.92 | Zone 1 |
| J-714 | 0 | 5,096.31 | 5,280.81 | 79.94 | Zone 4 |
| J-205 | 7.27 | 5,096.27 | 5,280.90 | 80 | Zone 4 |
| H-13-PH1 | 0 | 5,096.07 | 5,280.78 | 80.03 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,321.34 | 80.06 | Zone 3 |
| J-23-1207 | 3.64 | 5,095.92 | 5,280.81 | 80.11 | Zone 4 |
| J-485 | 17.07 | 5,095.99 | 5,280.90 | 80.12 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,280.78 | 80.18 | Zone 4 |
| H-11-PH1 | 0 | 5,095.76 | 5,280.80 | 80.18 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,280.78 | 80.18 | Zone 4 |
| J-325 | 12.71 | 5,095.74 | 5,281.04 | 80.29 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,280.88 | 80.3 | Zone 4 |
| J-776 | 7.27 | 5,095.41 | 5,280.78 | 80.32 | Zone 4 |
| H-14-PH1 | 0 | 5,095.35 | 5,280.78 | 80.35 | Zone 4 |
| J22-874 | 1.45 | 5,095.38 | 5,280.81 | 80.35 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,280.82 | 80.4 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,280.86 | 80.43 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,280.89 | 80.44 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,280.82 | 80.44 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,281.04 | 80.45 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,280.80 | 80.51 | Zone 4 |
| J22-1087 | 13.21 | 5,094.99 | 5,280.82 | 80.52 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,280.79 | 80.62 | Zone 4 |
| J-248 | 10.18 | 5,135.17 | 5,321.36 | 80.67 | Zone 3 |
| J-648 | 5.61 | 5,103.71 | 5,289.98 | 80.71 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-431 | 3.64 | 5,094.71 | 5,280.98 | 80.71 | Zone 4 |
| J-206 | 7.27 | 5,094.63 | 5,280.90 | 80.71 | Zone 4 |
| J-771 | 13.81 | 5,094.49 | 5,280.80 | 80.73 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,280.78 | 80.75 | Zone 4 |
| J-23-1228 | 5.82 | 5,094.40 | 5,280.80 | 80.77 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,280.91 | 80.8 | Zone 4 |
| J-660 | 5.82 | 5,094.39 | 5,280.86 | 80.8 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,291.15 | 80.83 | Zone 1 |
| H-12-PH1 | 0 | 5,094.20 | 5,280.79 | 80.85 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,280.93 | 80.86 | Zone 4 |
| J-191 | 14.2 | 5,121.58 | 5,308.21 | 80.87 | Zone 1 |
| J-138 | 0 | 5,134.58 | 5,321.34 | 80.92 | Zone 3 |
| J-197 | 0 | 5,094.12 | 5,280.98 | 80.97 | Zone 4 |
| J-25 | 0 | 5,104.44 | 5,291.40 | 81.01 | Zone 1 |
| J-456 | 0 | 5,093.93 | 5,280.93 | 81.03 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,280.80 | 81.08 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,307.54 | 81.1 | Zone 1 |
| H-10-PH1 | 0 | 5,093.60 | 5,280.80 | 81.11 | Zone 4 |
| J-603 | 11.23 | 5,102.70 | 5,289.94 | 81.13 | Zone 1 |
| J-27 | 0 | 5,101.81 | 5,289.16 | 81.18 | Zone 1 |
| J-657 | 7.27 | 5,093.38 | 5,280.83 | 81.22 | Zone 4 |
| J-775 | 7.27 | 5,093.32 | 5,280.79 | 81.23 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,280.84 | 81.27 | Zone 4 |
| J-23-1212 | 2.91 | 5,093.24 | 5,280.87 | 81.3 | Zone 4 |
| J-662 | 7.27 | 5,092.99 | 5,280.86 | 81.41 | Zone 4 |
| J22-1088 | 4.86 | 5,092.98 | 5,280.87 | 81.41 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,280.87 | 81.46 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,280.80 | 81.46 | Zone 4 |
| J22-880 | 2.18 | 5,092.85 | 5,280.87 | 81.47 | Zone 4 |
| H22-FH1 | 0 | 5,092.73 | 5,280.87 | 81.52 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,280.79 | 81.56 | Zone 4 |
| J-207 | 7.27 | 5,092.46 | 5,280.90 | 81.65 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,280.92 | 81.65 | Zone 4 |
| J-446 | 8.98 | 5,099.26 | 5,287.74 | 81.67 | Zone 1 |
| 2-IRR-11 | 0 | 5,092.39 | 5,280.88 | 81.67 | Zone 4 |
| J-658 | 10.91 | 5,092.30 | 5,280.84 | 81.69 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,280.79 | 81.77 | Zone 4 |
| J-23-1208 | 5.09 | 5,092.02 | 5,280.79 | 81.8 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,280.90 | 81.82 | Zone 4 |
| -VILLAGE | 8.34 | 5,092.08 | 5,280.93 | 81.83 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,280.79 | 81.85 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,280.79 | 81.87 | Zone 4 |
| J-655 | 7.27 | 5,091.87 | 5,280.86 | 81.89 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,281.27 | 81.9 | Zone 4 |
| J-647 | 11.23 | 5,100.91 | 5,289.98 | 81.93 | Zone 1 |
| J-430 | 0 | 5,091.77 | 5,280.90 | 81.95 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-918 | 0 | 5,091.71 | 5,280.86 | 81.96 | Zone 4 |
| J-466 | 10.91 | 5,091.59 | 5,280.90 | 82.03 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,280.83 | 82.05 | Zone 4 |
| J-23-1216 | 2.18 | 5,091.71 | 5,281.10 | 82.06 | Zone 4 |
| J-454 | 8.72 | 5,091.37 | 5,280.92 | 82.13 | Zone 4 |
| J-198 | 9.45 | 5,091.35 | 5,280.93 | 82.15 | Zone 4 |
| J-664 | 6.54 | 5,091.23 | 5,280.89 | 82.18 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,280.86 | 82.18 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,281.10 | 82.19 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,281.10 | 82.25 | Zone 4 |
| J-23-1215 | 1.45 | 5,091.25 | 5,281.07 | 82.25 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,280.93 | 82.26 | Zone 4 |
| J-332 | 0 | 5,097.85 | 5,287.75 | 82.28 | Zone 1 |
| J-340 | 6.74 | 5,096.75 | 5,286.67 | 82.29 | Zone 1 |
| J-23-1219 | 1.45 | 5,091.11 | 5,281.10 | 82.32 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,280.83 | 82.34 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,281.21 | 82.45 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,280.87 | 82.49 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,281.13 | 82.49 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,281.17 | 82.53 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,280.93 | 82.54 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,280.92 | 82.61 | Zone 4 |
| J-23-1213 | 4.36 | 5,090.32 | 5,281.04 | 82.64 | Zone 4 |
| J22-882 | 2.91 | 5,090.19 | 5,280.94 | 82.65 | Zone 4 |
| J-23-1214 | 0.73 | 5,090.30 | 5,281.05 | 82.65 | Zone 4 |
| J-453 | 12.36 | 5,090.15 | 5,280.92 | 82.66 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,280.87 | 82.69 | Zone 4 |
| H22-FH1 | 0 | 5,090.10 | 5,280.93 | 82.69 | Zone 4 |
| J-661 | 6.54 | 5,089.72 | 5,280.87 | 82.82 | Zone 4 |
| J-330 | 7.86 | 5,096.35 | 5,287.75 | 82.93 | Zone 1 |
| FH-914 | 0 | 5,089.29 | 5,280.86 | 83.01 | Zone 4 |
| J-199 | 10.18 | 5,089.28 | 5,280.91 | 83.03 | Zone 4 |
| J-595 | 4.49 | 5,099.13 | 5,290.97 | 83.12 | Zone 1 |
| FH-913 | 0 | 5,089.01 | 5,280.89 | 83.14 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,307.53 | 83.17 | Zone 1 |
| J-452 | 0 | 5,088.84 | 5,280.92 | 83.23 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,280.89 | 83.27 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,280.89 | 83.28 | Zone 4 |
| J-445 | 0 | 5,095.13 | 5,287.74 | 83.46 | Zone 1 |
| J-479 | 0 | 5,088.24 | 5,280.93 | 83.5 | Zone 4 |
| J-324 | 3.64 | 5,087.57 | 5,280.98 | 83.8 | Zone 4 |
| J-166 | 8.98 | 5,093.26 | 5,286.67 | 83.81 | Zone 1 |
| J-449 | 0 | 5,087.47 | 5,280.93 | 83.83 | Zone 4 |
| LEMSCH | 16.69 | 5,087.43 | 5,280.92 | 83.84 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,280.93 | 83.88 | Zone 4 |
| J-200 | 10.18 | 5,087.30 | 5,280.90 | 83.89 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J22-1092 | 0 | 5,087.28 | 5,280.93 | 83.91 | Zone 4 |
| 7CSELEN | 0 | 5,087.23 | 5,280.93 | 83.93 | Zone 4 |
| J-606 | 15.72 | 5,096.31 | 5,290.18 | 84 | Zone 1 |
| J-440 | 4.36 | 5,086.88 | 5,280.96 | 84.1 | Zone 4 |
| J-478 | 5.82 | 5,086.54 | 5,280.93 | 84.23 | Zone 4 |
| J-474 | 5.82 | 5,086.26 | 5,280.93 | 84.35 | Zone 4 |
| J-438 | 9.45 | 5,086.25 | 5,280.96 | 84.37 | Zone 4 |
| J-592 | 14.6 | 5,095.57 | 5,290.43 | 84.43 | Zone 1 |
| J-460 | 9.45 | 5,086.01 | 5,280.95 | 84.46 | Zone 4 |
| J-407 | 3.64 | 5,085.64 | 5,280.90 | 84.61 | Zone 4 |
| J-201 | 10.18 | 5,085.59 | 5,280.90 | 84.63 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,280.94 | 84.71 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,280.95 | 84.83 | Zone 4 |
| J22-902 | 8.34 | 5,085.12 | 5,280.94 | 84.85 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,280.94 | 84.96 | Zone 4 |
| J-475 | 6.54 | 5,084.82 | 5,280.94 | 84.98 | Zone 4 |
| J-408 | 8.72 | 5,084.71 | 5,280.90 | 85.01 | Zone 4 |
| J-202 | 8.72 | 5,084.62 | 5,280.90 | 85.05 | Zone 4 |
| J-336 | 8.98 | 5,090.75 | 5,287.09 | 85.08 | Zone 1 |
| J22-1091 | 0 | 5,084.24 | 5,280.93 | 85.23 | Zone 4 |
| J-280 | 5.82 | 5,084.28 | 5,281.05 | 85.26 | Zone 4 |
| H22-FH1 | 0 | 5,084.13 | 5,280.94 | 85.28 | Zone 4 |
| J-285 | 8.72 | 5,083.77 | 5,280.94 | 85.43 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,280.90 | 85.56 | Zone 4 |
| J-476 | 5.82 | 5,083.43 | 5,280.94 | 85.58 | Zone 4 |
| J-409 | 4.36 | 5,083.24 | 5,280.90 | 85.65 | Zone 4 |
| J-323 | 13.43 | 5,083.06 | 5,280.96 | 85.75 | Zone 4 |
| J-282 | 8 | 5,082.97 | 5,281.05 | 85.83 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,280.93 | 85.96 | Zone 4 |
| J-471 | 10.91 | 5,082.54 | 5,280.92 | 85.96 | Zone 4 |
| J-208 | 7.27 | 5,082.50 | 5,280.93 | 85.98 | Zone 4 |
| J-273 | 5.09 | 5,082.46 | 5,280.93 | 86 | Zone 4 |
| J-327 | 12.35 | 5,089.27 | 5,287.74 | 86 | Zone 1 |
| J-461 | 10.91 | 5,082.44 | 5,280.95 | 86.01 | Zone 4 |
| J-473 | 8.72 | 5,082.14 | 5,280.92 | 86.13 | Zone 4 |
| J-477 | 5.82 | 5,082.15 | 5,280.94 | 86.14 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,280.93 | 86.2 | Zone 4 |
| J-459 | 6.54 | 5,081.68 | 5,280.94 | 86.34 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,287.09 | 86.46 | Zone 1 |
| J-410 | 5.09 | 5,081.37 | 5,280.92 | 86.47 | Zone 4 |
| J-215 | 15.61 | 5,081.17 | 5,280.91 | 86.55 | Zone 4 |
| J-424 | 4.86 | 5,081.15 | 5,280.94 | 86.57 | Zone 4 |
| J-405 | 5.82 | 5,081.06 | 5,280.90 | 86.59 | Zone 4 |
| J-271 | 8 | 5,080.96 | 5,280.93 | 86.65 | Zone 4 |
| J-320 | 8.34 | 5,080.78 | 5,280.93 | 86.72 | Zone 4 |
| J-586 | 16.69 | 5,080.67 | 5,280.93 | 86.77 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-249 | 8 | 5,120.99 | 5,321.27 | 86.78 | Zone 3 |
| J-462 | 13.09 | 5,080.60 | 5,280.95 | 86.81 | Zone 4 |
| J-417 | 8.72 | 5,080.47 | 5,280.95 | 86.86 | Zone 4 |
| J-272 | 5.09 | 5,080.44 | 5,280.92 | 86.87 | Zone 4 |
| J-321 | 4.36 | 5,080.22 | 5,280.92 | 86.97 | Zone 4 |
| J-214 | 7.27 | 5,080.16 | 5,280.90 | 86.98 | Zone 4 |
| J-270 | 8 | 5,080.13 | 5,280.92 | 87 | Zone 4 |
| J-411 | 5.09 | 5,079.96 | 5,280.92 | 87.07 | Zone 4 |
| J-472 | 8 | 5,079.93 | 5,280.92 | 87.09 | Zone 4 |
| J-339 | 7.86 | 5,085.67 | 5,286.88 | 87.18 | Zone 1 |
| J-404 | 5.82 | 5,079.68 | 5,280.92 | 87.2 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,280.95 | 87.29 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,321.27 | 87.31 | Zone 3 |
| J-458 | 7.27 | 5,079.24 | 5,280.94 | 87.4 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,280.92 | 87.52 | Zone 4 |
| J-590 | 10.1 | 5,088.31 | 5,290.30 | 87.52 | Zone 1 |
| J-416 | 0 | 5,078.93 | 5,280.94 | 87.53 | Zone 4 |
| J-277 | 8.72 | 5,078.88 | 5,280.93 | 87.55 | Zone 4 |
| J-418 | 8 | 5,078.88 | 5,280.95 | 87.56 | Zone 4 |
| J-239 | 7.27 | 5,078.79 | 5,280.90 | 87.57 | Zone 4 |
| J-412 | 5.09 | 5,078.68 | 5,280.92 | 87.63 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,280.94 | 87.67 | Zone 4 |
| J-403 | 5.09 | 5,078.53 | 5,280.92 | 87.7 | Zone 4 |
| J-587 | 8.34 | 5,078.13 | 5,280.94 | 87.88 | Zone 4 |
| J-279 | 6.54 | 5,078.05 | 5,280.93 | 87.91 | Zone 4 |
| J-269 | 7.27 | 5,077.78 | 5,280.93 | 88.02 | Zone 4 |
| J-426 | 8 | 5,077.65 | 5,280.94 | 88.09 | Zone 4 |
| J-212 | 6.54 | 5,077.48 | 5,280.90 | 88.14 | Zone 4 |
| J-413 | 5.09 | 5,077.49 | 5,280.94 | 88.16 | Zone 4 |
| J-23 | 6.74 | 5,102.29 | 5,305.75 | 88.16 | Zone 1 |
| J-425 | 2.91 | 5,077.39 | 5,280.94 | 88.2 | Zone 4 |
| J-604 | 6.74 | 5,086.47 | 5,290.03 | 88.2 | Zone 1 |
| J-264 | 7.27 | 5,077.35 | 5,280.93 | 88.21 | Zone 4 |
| J-402 | 5.82 | 5,077.13 | 5,280.92 | 88.3 | Zone 4 |
| J-597 | 13.47 | 5,085.96 | 5,289.94 | 88.38 | Zone 1 |
| J-231 | 7.27 | 5,076.71 | 5,280.91 | 88.48 | Zone 4 |
| J-161 | 10.1 | 5,082.45 | 5,286.70 | 88.5 | Zone 1 |
| J-276 | 10.18 | 5,076.67 | 5,280.93 | 88.51 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,280.96 | 88.61 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,286.98 | 88.62 | Zone 1 |
| J-230 | 7.27 | 5,076.30 | 5,280.91 | 88.66 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,280.97 | 88.75 | Zone 4 |
| J-226 | 7.27 | 5,075.95 | 5,280.90 | 88.8 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,280.97 | 88.82 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,280.93 | 88.9 | Zone 4 |
| J-401 | 6.54 | 5,075.73 | 5,280.94 | 88.92 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-295 | 9.45 | 5,075.72 | 5,280.98 | 88.94 | Zone 4 |
| J-427 | 11.23 | 5,082.41 | 5,287.75 | 88.97 | Zone 1 |
| J-278 | 8.72 | 5,075.57 | 5,280.93 | 88.99 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,280.94 | 89 | Zone 4 |
| J-436 | 9.45 | 5,075.48 | 5,280.94 | 89.02 | Zone 4 |
| J-296 | 8 | 5,075.50 | 5,280.98 | 89.03 | Zone 4 |
| J-315 | 10.18 | 5,075.27 | 5,280.97 | 89.13 | Zone 4 |
| J-228 | 7.27 | 5,075.04 | 5,280.90 | 89.2 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,280.94 | 89.29 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,280.98 | 89.43 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,280.90 | 89.47 | Zone 4 |
| J-400 | 5.82 | 5,074.49 | 5,280.97 | 89.47 | Zone 4 |
| J-294 | 6.54 | 5,074.33 | 5,280.98 | 89.54 | Zone 4 |
| J-316 | 17.07 | 5,074.16 | 5,280.97 | 89.61 | Zone 4 |
| J-254 | 5.09 | 5,074.06 | 5,280.90 | 89.62 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,280.93 | 89.63 | Zone 4 |
| J-303 | 3.64 | 5,074.07 | 5,280.98 | 89.65 | Zone 4 |
| J-312 | 10.18 | 5,073.95 | 5,280.99 | 89.71 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,280.92 | 90.01 | Zone 4 |
| J-308 | 11.63 | 5,073.29 | 5,281.02 | 90.01 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,281.00 | 90.06 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,280.97 | 90.07 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,280.94 | 90.14 | Zone 4 |
| J-266 | 6.54 | 5,072.93 | 5,280.98 | 90.15 | Zone 4 |
| J-233 | 8.34 | 5,072.79 | 5,280.92 | 90.18 | Zone 4 |
| J-589 | 13.47 | 5,082.17 | 5,290.30 | 90.18 | Zone 1 |
| J-260 | 4.36 | 5,072.80 | 5,280.95 | 90.19 | Zone 4 |
| J-313 | 8.72 | 5,072.76 | 5,280.99 | 90.22 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,280.91 | 90.28 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,280.90 | 90.39 | Zone 4 |
| J-310 | 10.18 | 5,072.34 | 5,281.02 | 90.42 | Zone 4 |
| J-331 | 10.1 | 5,079.08 | 5,287.76 | 90.42 | Zone 1 |
| J-309 | 7.27 | 5,072.32 | 5,281.01 | 90.43 | Zone 4 |
| J-259 | 4.36 | 5,072.01 | 5,280.98 | 90.54 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,280.90 | 90.64 | Zone 4 |
| J-300 | 5.82 | 5,071.64 | 5,281.03 | 90.73 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,281.01 | 90.81 | Zone 4 |
| J-337 | 16.84 | 5,077.64 | 5,287.25 | 90.82 | Zone 1 |
| J-246 | 0 | 5,071.29 | 5,280.98 | 90.86 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,280.90 | 90.87 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,280.96 | 90.88 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,321.15 | 90.95 | Zone 3 |
| J-263 | 16.12 | 5,070.85 | 5,280.93 | 91.03 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,289.88 | 91.27 | Zone 1 |
| J-307 | 10.18 | 5,070.23 | 5,281.04 | 91.34 | Zone 4 |
| J-319 | 8.34 | 5,070.24 | 5,281.09 | 91.36 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-261 | 3.64 | 5,069.91 | 5,280.95 | 91.45 | Zone 4 |
| J-302 | 7.27 | 5,069.92 | 5,281.08 | 91.5 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,281.08 | 91.56 | Zone 4 |
| J-162 | 11.23 | 5,074.91 | 5,286.64 | 91.75 | Zone 1 |
| J-251 | 14.54 | 5,069.14 | 5,281.10 | 91.84 | Zone 4 |
| J-252 | 8.34 | 5,069.06 | 5,281.21 | 91.93 | Zone 4 |
| J-219 | 6.54 | 5,068.69 | 5,280.90 | 91.95 | Zone 4 |
| J-137 | 8 | 5,108.67 | 5,321.09 | 92.04 | Zone 3 |
| J-6 | 8.98 | 5,094.60 | 5,307.51 | 92.25 | Zone 1 |
| J-588 | 10.1 | 5,077.31 | 5,290.30 | 92.29 | Zone 1 |
| J-250 | 8 | 5,067.75 | 5,281.04 | 92.42 | Zone 4 |
| J-247 | 18.18 | 5,067.68 | 5,281.12 | 92.48 | Zone 4 |
| J-223 | 7.27 | 5,067.34 | 5,280.90 | 92.54 | Zone 4 |
| J-385 | 8.96 | 5,076.49 | 5,290.05 | 92.54 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,290.25 | 92.58 | Zone 1 |
| J-238 | 7.27 | 5,067.17 | 5,280.90 | 92.61 | Zone 4 |
| J-220 | 7.27 | 5,066.08 | 5,280.90 | 93.08 | Zone 4 |
| J-221 | 7.27 | 5,066.06 | 5,280.90 | 93.09 | Zone 4 |
| J-28 | 0 | 5,073.11 | 5,287.96 | 93.09 | Zone 1 |
| J-150 | 10.1 | 5,066.84 | 5,285.58 | 94.78 | Zone 1 |
| J-289 | 8.98 | 5,087.80 | 5,307.42 | 95.16 | Zone 1 |
| J-136 | 21.08 | 5,100.47 | 5,320.47 | 95.33 | Zone 3 |
| J-608 | 0 | 5,064.05 | 5,284.35 | 95.45 | Zone 4 |
| J-151 | 6.74 | 5,065.12 | 5,285.57 | 95.52 | Zone 1 |
| J-135 | 24.72 | 5,097.88 | 5,320.55 | 96.48 | Zone 3 |
| J-1242 | 0 | 5,060.56 | 5,286.56 | 97.92 | Zone 1 |
| J-158 | 22.45 | 5,060.32 | 5,286.59 | 98.04 | Zone 1 |
| J-164 | 15.72 | 5,059.45 | 5,285.85 | 98.1 | Zone 1 |
| J-152 | 11.23 | 5,058.73 | 5,285.57 | 98.29 | Zone 1 |
| J-163 | 14.6 | 5,058.71 | 5,286.06 | 98.51 | Zone 1 |
| J-165 | 23.58 | 5,057.28 | 5,286.28 | 99.23 | Zone 1 |
| J-153 | 10.1 | 5,056.40 | 5,285.58 | 99.3 | Zone 1 |
| J-305 | 8.98 | 5,077.07 | 5,306.74 | 99.52 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,285.55 | 99.92 | Zone 1 |
| J-154 | 15.69 | 5,053.62 | 5,285.59 | 100.51 | Zone 1 |
| J-155 | 8.98 | 5,051.81 | 5,285.58 | 101.29 | Zone 1 |
| J-304 | 8.98 | 5,072.38 | 5,306.75 | 101.55 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,285.55 | 101.62 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,285.32 | 101.69 | Zone 1 |
| J-611 | 7.86 | 5,049.06 | 5,286.03 | 102.68 | Zone 1 |
| J-612 | 11.96 | 5,047.26 | 5,286.03 | 103.46 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,289.13 | 105.89 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,289.03 | 105.9 | Zone 4 |
| J-48 | 16.84 | 5,042.96 | 5,288.01 | 106.18 | Zone 1 |
| J-49 | 16.84 | 5,042.76 | 5,287.88 | 106.21 | Zone 1 |
| J-47 | 13.47 | 5,043.03 | 5,288.30 | 106.27 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-827 | 0 | 5,042.00 | 5,289.79 | 107.37 | Zone 4 |
| J-35 | 12.35 | 5,040.53 | 5,289.16 | 107.73 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,290.38 | 108 | Zone 1 |
| J-1252IRP | 14.18 | 5,040.67 | 5,290.22 | 108.13 | Zone 1 |
| J-828 | 0 | 5,041.01 | 5,290.58 | 108.14 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,290.84 | 108.27 | Zone 4 |
| FH-801 | 0 | 5,040.29 | 5,290.38 | 108.37 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,290.38 | 108.44 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,290.39 | 108.6 | Zone 1 |
| J-13 | 8.96 | 5,039.32 | 5,290.39 | 108.79 | Zone 1 |
| J-8 | 8.98 | 5,054.92 | 5,307.36 | 109.38 | Zone 1 |
| J-10 | 8.98 | 5,052.43 | 5,305.35 | 109.59 | Zone 1 |
| J-9 | 8.98 | 5,049.50 | 5,306.06 | 111.17 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,295.57 | 111.69 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,301.39 | 115.67 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-423 | J-242 | ERPUMPST | 50 | 6 | 140 | 420 | 4.76 | 0.65 | 12.95 | Zone 1 |
| P-424 | ERPUMPST | J-243 | 126 | 6 | 140 | 420 | 4.76 | 1.64 | 12.95 | Zone 1 |
| P-318 | WELL6 | J-192 | 602 | 8 | 140 | 688 | 4.39 | 4.8 | 7.96 | Zone 4 |
| P-332 | AXWINGRE | J-127 | 335 | 6 | 140 | 362 | 4.1 | 3.29 | 9.83 | Zone 3 |
| P-333 | J-136 | AXWINGRE | 306 | 6 | 140 | 362 | 4.1 | 3 | 9.83 | Zone 1 |
| P-26 | J-23 | ERTOWNCA | 2116 | 8 | 140 | 605 | 3.86 | 13.29 | 6.28 | Zone 2 |
| P-1392 | J-826 | J-828 | 46 | 8 | 140 | 569 | 3.63 | 0.26 | 5.6 | Zone 3 |
| P-1393 | J-828 | J-827 | 141 | 8 | 140 | 569 | 3.63 | 0.79 | 5.6 | Zone 1 |
| P-1965 | WELL1 | J-826 | 79 | 8 | 140 | 569 | 3.63 | 0.44 | 5.6 | Zone 4 |
| P-1325 | R-5 | NDYKEWEL | 28 | 10 | 140 | 882 | 3.6 | 0.12 | 4.26 | Zone 4 |
| P-1324 | ANDYKEWE | J-797 | 45 | 10 | 140 | 882 | 3.6 | 0.19 | 4.27 | Zone 4 |
| P-1326 | ANDYKEWEL | ANDYKEWE | 83 | 10 | 140 | 882 | 3.6 | 0.35 | 4.25 | Zone 2 |
| P-1 | TANK1 | J-1 | 813 | 8 | 120 | 554 | 3.54 | 5.77 | 7.1 | Zone 2 |
| P-4(1) | J-3 | J-1262 | 234 | 12 | 120 | 1237 | 3.51 | 1.02 | 4.36 | Zone 2 |
| P-317 | J-192 | J-3 | 1062 | 12 | 120 | 1237 | 3.51 | 4.63 | 4.36 | Zone 1 |
| P-4(2) | J-1262 | J-4 | 263 | 12 | 120 | 1232 | 3.49 | 1.14 | 4.32 | Zone 1 |
| P-676 | J-388 | J-23 | 519 | 10 | 140 | 785 | 3.21 | 1.78 | 3.43 | Zone 1 |
| P-112 | J-80 | J-33 | 816 | 10 | 140 | 754 | 3.08 | 2.6 | 3.18 | Zone 1 |
| P-586 | J-36 | J-344 | 56 | 8 | 140 | 479 | 3.06 | 0.23 | 4.07 | Zone 1 |
| P-587 | J-344 | (COLDSPR | 41 | 8 | 140 | 479 | 3.06 | 0.17 | 4.08 | Zone 2 |
| P-322(1) | (COLDSPR | J-1245 | 39 | 8 | 140 | 479 | 3.06 | 0.16 | 4.07 | Zone 1 |
| 322(2) | J-1245 | J-1246 | 454 | 8 | 140 | 479 | 3.06 | 1.85 | 4.08 | Zone 1 |
| 322(2) | J-1246 | J-53 | 215 | 8 | 140 | 479 | 3.06 | 0.88 | 4.08 | Zone 2 |
| P-40 | J-13 | J-35 | 302 | 8 | 140 | 478 | 3.05 | 1.23 | 4.07 | Zone 2 |
| P-1320 | J-797 | J-54 | 442 | 8 | 110 | 438 | 2.79 | 2.38 | 5.39 | Zone 2 |
| P-331 | J-4 | J-189 | 218 | 8 | 140 | 432 | 2.76 | 0.73 | 3.36 | Zone 2 |
| P-1321 | J-797 | J-63 | 1141 | 8 | 110 | 428 | 2.73 | 5.91 | 5.18 | Zone 1 |
| P-178 | J-53 | J-112 | 531 | 6 | 140 | 240 | 2.73 | 2.45 | 4.62 | Zone 2 |
| P-982 | J-49 | J-612 | 583 | 8 | 140 | 419 | 2.67 | 1.85 | 3.18 | Zone 1 |
| P-985 | J-612 | J-36 | 165 | 8 | 140 | 399 | 2.55 | 0.48 | 2.91 | Zone 4 |
| P-409 | J-33 | TANK2 | 1804 | 10 | 140 | 623 | 2.54 | 4.03 | 2.24 | Zone 2 |
| P-419 | J-242 | TANK4 | 92 | 14 | 140 | -1212 | 2.53 | 0.14 | 1.49 | Zone 1 |
| P-27 | ERTOWNCA | J-25 | 506 | 10 | 140 | 600 | 2.45 | 1.05 | 2.08 | Zone 1 |
| P-965 | J-596 | J-595 | 86 | 10 | 140 | 600 | 2.45 | 0.18 | 2.08 | Zone 1 |
| P-963 | J-25 | J-596 | 123 | 10 | 140 | 600 | 2.45 | 0.26 | 2.09 | Zone 1 |
| P-673 | J-189 | J-387 | 352 | 4 | 140 | 96 | 2.44 | 2.12 | 6.03 | Zone 2 |
| P-962 | J-595 | J-592 | 260 | 10 | 140 | 595 | 2.43 | 0.54 | 2.05 | Zone 1 |
| P-69 | J-54 | J-55 | 485 | 6 | 140 | 212 | 2.41 | 1.78 | 3.67 | Zone 1 |
| P-57 | J-35 | J-49 | 497 | 8 | 140 | 374 | 2.38 | 1.28 | 2.57 | Zone 1 |
| P-1310 | R-3 | WELL1 | 32 | 10 | 140 | 569 | 2.32 | 0.06 | 1.89 | Zone 4 |
| P-1391 | J-827 | J-795 | 352 | 10 | 140 | 569 | 2.32 | 0.66 | 1.89 | Zone 4 |
| P-138 | J-608 | J-252 | 1660 | 10 | 140 | 569 | 2.32 | 3.13 | 1.89 | Zone 4 |
| P-139 | J-609 | J-608 | 2481 | 10 | 140 | 569 | 2.32 | 4.69 | 1.89 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1319 | J-795 | J-609 | 50 | 10 | 140 | 569 | 2.32 | 0.09 | 1.89 | Zone 4 |
| P-675 | J-4 | J-388 | 2121 | 12 | 140 | 785 | 2.23 | 3 | 1.41 | Zone 1 |
| P-337 | J-189 | J-190 | 480 | 8 | 140 | 336 | 2.15 | 1.02 | 2.12 | Zone 1 |
| P-338 | J-190 | J-191 | 267 | 8 | 140 | 336 | 2.15 | 0.56 | 2.12 | Zone 1 |
| P-315 | WELL7 | WELL6 | 1186 | 8 | 140 | 330 | 2.11 | 2.43 | 2.05 | Zone 1 |
| P-576 | J-331 | J-337 | 264 | 8 | 140 | 322 | 2.06 | 0.52 | 1.96 | Zone 1 |
| P-13 | J-12 | J-13 | 2214 | 10 | 110 | 502 | 2.05 | 5.18 | 2.34 | Zone 1 |
| P-12 | J-11 | J-12 | 2490 | 10 | 110 | 502 | 2.05 | 5.82 | 2.34 | Zone 1 |
| P-11 | J-10 | J-11 | 1692 | 10 | 110 | 502 | 2.05 | 3.96 | 2.34 | Zone 1 |
| P-534 | J-289 | J-304 | 401 | 8 | 140 | 297 | 1.89 | 0.67 | 1.68 | Zone 1 |
| P-147 | J-43 | J-101 | 346 | 8 | 140 | 296 | 1.89 | 0.58 | 1.68 | Zone 2 |
| P-533 | J-304 | J-9 | 460 | 8 | 140 | 279 | 1.78 | 0.69 | 1.5 | Zone 1 |
| P-153 | J-57 | J-102 | 374 | 6 | 140 | 154 | 1.75 | 0.76 | 2.02 | Zone 2 |
| P-148 | J-101 | J-44 | 342 | 8 | 140 | 267 | 1.7 | 0.47 | 1.38 | Zone 2 |
| P-30 | J-27 | J-28 | 1146 | 10 | 140 | 415 | 1.69 | 1.2 | 1.05 | Zone 1 |
| P-961 | J-594 | J-27 | 683 | 10 | 140 | 415 | 1.69 | 0.72 | 1.05 | Zone 1 |
| P-770 | J-28 | J-331 | 185 | 10 | 140 | 415 | 1.69 | 0.19 | 1.05 | Zone 1 |
| P-1233 | J-760 | J-242 | 1317 | 14 | 130 | -793 | 1.65 | 1.02 | 0.78 | Zone 4 |
| P-49 | J-37 | J-43 | 847 | 6 | 140 | 141 | 1.6 | 1.45 | 1.71 | Zone 4 |
| P-1228 | J-241 | J-760 | 13 | 14 | 140 | -756 | 1.58 | 0.01 | 0.62 | Zone 2 |
| P-316 | J-2 | J-192 | 912 | 12 | 120 | 554 | 1.57 | 0.9 | 0.99 | Zone 1 |
| P-2 | J-1 | J-2 | 910 | 12 | 120 | 554 | 1.57 | 0.9 | 0.98 | Zone 1 |
| P-73 | J-58 | J-43 | 392 | 8 | 140 | 240 | 1.53 | 0.44 | 1.13 | Zone 2 |
| P-421 | J-243 | J-237 | 1148 | 10 | 140 | 365 | 1.49 | 0.96 | 0.83 | Zone 3 |
| P-398 | J-237 | J-185 | 279 | 10 | 140 | 360 | 1.47 | 0.23 | 0.81 | Zone 3 |
| P-1346 | J-50 | J-58 | 384 | 8 | 140 | 230 | 1.47 | 0.4 | 1.04 | Zone 3 |
| P-299 | J-185 | J-140 | 377 | 10 | 140 | 354 | 1.45 | 0.3 | 0.79 | Zone 4 |
| P-777(1) | WELL8 | J-23-1222 | 78 | 10 | 140 | 354 | 1.45 | 0.06 | 0.79 | Zone 2 |
| P-67 | J-54 | J-15 | 955 | 8 | 110 | 220 | 1.4 | 1.44 | 1.51 | Zone 2 |
| P-508 | J-191 | J-289 | 824 | 8 | 140 | 219 | 1.4 | 0.79 | 0.96 | Zone 1 |
| P-984 | J-9 | J-10 | 987 | 10 | 140 | 337 | 1.38 | 0.71 | 0.72 | Zone 1 |
| P-146 | J-100 | J-91 | 441 | 6 | 140 | 119 | 1.36 | 0.56 | 1.26 | Zone 2 |
| P-48 | J-15 | J-42 | 331 | 8 | 110 | 210 | 1.34 | 0.46 | 1.38 | Zone 2 |
| P-447 | J-42 | J-255 | 249 | 8 | 140 | 204 | 1.3 | 0.21 | 0.84 | Zone 2 |
| P-677 | J-184 | J-389 | 93 | 8 | 140 | -204 | 1.3 | 0.08 | 0.84 | Zone 4 |
| P-259(2) | J-1242 | J-165 | 357 | 8 | 140 | 197 | 1.26 | 0.28 | 0.78 | Zone 2 |
| P-259(1) | J-158 | J-1242 | 44 | 8 | 140 | 197 | 1.26 | 0.03 | 0.78 | Zone 2 |
| P-191 | J-128 | J-127 | 451 | 8 | 140 | -196 | 1.25 | 0.35 | 0.78 | Zone 4 |
| P-151 | J-102 | J-38 | 876 | 6 | 140 | 110 | 1.25 | 0.95 | 1.08 | Zone 2 |
| P-187 | J-125 | J-80 | 165 | 10 | 140 | 305 | 1.24 | 0.1 | 0.59 | Zone 1 |
| P-823 | J-480 | J-241 | 184 | 14 | 140 | -587 | 1.22 | 0.07 | 0.39 | Zone 1 |
| P-84 | J-63 | J-40 | 1489 | 10 | 140 | 292 | 1.19 | 0.82 | 0.55 | Zone 2 |
| P-1345 | J-255 | J-50 | 228 | 8 | 140 | 186 | 1.19 | 0.16 | 0.71 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-824 | J-398 | J-480 | 112 | 14 | 140 | -567 | 1.18 | 0.04 | 0.36 | Zone 4 |
| P-152 | J-102 | J-100 | 351 | 6 | 140 | 101 | 1.15 | 0.33 | 0.93 | Zone 3 |
| P-76 | J-55 | J-59 | 544 | 6 | 140 | 101 | 1.15 | 0.5 | 0.93 | Zone 2 |
| P-70 | J-55 | J-56 | 484 | 6 | 140 | 100 | 1.14 | 0.44 | 0.92 | Zone 4 |
| P-826 | J-395 | J-481 | 114 | 14 | 140 | -546 | 1.14 | 0.04 | 0.34 | Zone 2 |
| P-206 | J-137 | J-136 | 1236 | 10 | 140 | 277 | 1.13 | 0.61 | 0.5 | Zone 2 |
| P-260 | J-165 | J-163 | 364 | 8 | 140 | 173 | 1.11 | 0.23 | 0.62 | Zone 4 |
| P-825 | J-481 | J-398 | 175 | 14 | 140 | -530 | 1.1 | 0.06 | 0.32 | Zone 1 |
| P-110 | J-78 | J-80 | 186 | 10 | 140 | 262 | 1.07 | 0.08 | 0.45 | Zone 1 |
| P-55 | J-35 | J-47 | 1098 | 6 | 140 | 93 | 1.05 | 0.86 | 0.79 | Zone 1 |
| P-75 | J-59 | J-57 | 486 | 6 | 140 | 92 | 1.05 | 0.38 | 0.78 | Zone 2 |
| P-582 | J-337 | J-341 | 296 | 8 | 140 | 160 | 1.02 | 0.16 | 0.54 | Zone 2 |
| P-1306 | WELL6_P | WELL6 | 31 | 12 | 140 | 358 | 1.01 | 0.01 | 0.33 | Zone 1 |
| P-1307 | R-2 | WELL6_P | 16 | 12 | 140 | 358 | 1.01 | 0.01 | 0.33 | Zone 4 |
| P-257 | J-163 | J-164 | 392 | 8 | 140 | 159 | 1.01 | 0.21 | 0.53 | Zone 1 |
| P-530 | J-252 | J-302 | 325 | 10 | 140 | 247 | 1.01 | 0.13 | 0.4 | Zone 1 |
| P-1313 | WELL8_P | WELL8 | 18 | 12 | 140 | 354 | 1 | 0.01 | 0.32 | Zone 4 |
| P-1312 | R-4 | WELL8_P | 15 | 12 | 140 | 354 | 1 | 0 | 0.32 | Zone 4 |
| P-698 | J-399 | J-395 | 172 | 14 | 140 | -477 | 0.99 | 0.05 | 0.26 | Zone 1 |
| P-959 | J-592 | J-589 | 340 | 10 | 140 | 240 | 0.98 | 0.13 | 0.38 | Zone 4 |
| P-190 | J-127 | J-126 | 887 | 8 | 140 | 152 | 0.97 | 0.43 | 0.48 | Zone 2 |
| P-584 | J-342 | J-339 | 195 | 8 | 140 | 151 | 0.97 | 0.09 | 0.48 | Zone 1 |
| P-583 | J-341 | J-342 | 233 | 8 | 140 | 151 | 0.97 | 0.11 | 0.48 | Zone 1 |
| P-71 | J-56 | J-57 | 665 | 6 | 140 | 84 | 0.96 | 0.44 | 0.66 | Zone 3 |
| P-210 | J-140 | J-141 | 864 | 10 | 140 | 234 | 0.95 | 0.31 | 0.36 | Zone 2 |
| P-1174 | J-732 | J-688 | 219 | 6 | 140 | -84 | 0.95 | 0.14 | 0.65 | Zone 4 |
| P-1173 | J-730 | J-732 | 51 | 6 | 140 | -84 | 0.95 | 0.03 | 0.66 | Zone 4 |
| P-1304 | WELL7_P | WELL7 | 20 | 12 | 140 | 330 | 0.94 | 0.01 | 0.26 | Zone 1 |
| P-1303 | R-1 | WELL7_P | 32 | 12 | 140 | 330 | 0.94 | 0.01 | 0.29 | Zone 1 |
| P-66 | J-53 | J-52 | 328 | 6 | 140 | 82 | 0.93 | 0.21 | 0.63 | Zone 1 |
| P-776 | J-337 | J-158 | 1465 | 8 | 140 | 145 | 0.93 | 0.65 | 0.45 | Zone 1 |
| P-579 | J-339 | J-161 | 418 | 8 | 140 | 144 | 0.92 | 0.18 | 0.44 | Zone 3 |
| P-258 | J-164 | J-154 | 602 | 8 | 140 | 143 | 0.91 | 0.26 | 0.43 | Zone 3 |
| P-433 | J-137 | J-217 | 151 | 8 | 140 | -142 | 0.91 | 0.07 | 0.43 | Zone 1 |
| P-370 | J-146 | J-217 | 267 | 8 | 140 | 142 | 0.91 | 0.12 | 0.43 | Zone 1 |
| P-65 | J-53 | J-37 | 607 | 8 | 140 | 141 | 0.9 | 0.26 | 0.42 | Zone 2 |
| P-56 | J-47 | J-48 | 478 | 6 | 140 | 79 | 0.9 | 0.28 | 0.59 | Zone 4 |
| P-966 | J-597 | J-594 | 185 | 10 | 140 | 217 | 0.89 | 0.06 | 0.32 | Zone 4 |
| P-777(2) | J-23-1222 | J-423 | 817 | 10 | 140 | 217 | 0.88 | 0.26 | 0.32 | Zone 4 |
| P-189 | J-126 | J-125 | 506 | 8 | 140 | 137 | 0.88 | 0.2 | 0.4 | Zone 4 |
| P-1504 | J-23-1219 | J-23-1220 | 71 | 8 | 140 | -137 | 0.88 | 0.03 | 0.4 | Zone 1 |
| P-1506 | J-23-1221 | J-23-1222 | 86 | 8 | 140 | -137 | 0.88 | 0.03 | 0.4 | Zone 2 |
| P-1505 | J-23-1220 | J-23-1221 | 107 | 8 | 140 | -137 | 0.88 | 0.04 | 0.41 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|------------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-169 | J-112 | J-113 | 344 | 8 | 140 | 136 | 0.87 | 0.14 | 0.4 | Zone 2 |
| P-63 | J-52 | J-51 | 545 | 6 | 140 | 76 | 0.86 | 0.29 | 0.54 | Zone 1 |
| P-978 | J-592 | J-606 | 661 | 8 | 140 | 134 | 0.85 | 0.25 | 0.38 | Zone 4 |
| 502(1) | J-23-1215 | J-23-1219 | 81 | 8 | 140 | -134 | 0.85 | 0.03 | 0.38 | Zone 4 |
| P-150 | J-43 | J-102 | 570 | 6 | 140 | 75 | 0.85 | 0.3 | 0.53 | Zone 4 |
| P-1035 | J-592 | J-644 | 567 | 10 | 140 | 207 | 0.85 | 0.16 | 0.29 | Zone 4 |
| P-680 | J-389 | J-390 | 376 | 10 | 140 | -207 | 0.85 | 0.11 | 0.29 | Zone 1 |
| P-475 | J-113 | J-274 | 337 | 8 | 140 | 132 | 0.84 | 0.13 | 0.38 | Zone 1 |
| P-1501 | J-23-1214 | J-23-1215 | 41 | 8 | 140 | -132 | 0.84 | 0.02 | 0.37 | Zone 2 |
| P-958 | J-589 | J-591 | 197 | 10 | 140 | 206 | 0.84 | 0.06 | 0.29 | Zone 2 |
| P-957 | J-591 | J-385 | 669 | 10 | 140 | 206 | 0.84 | 0.19 | 0.29 | Zone 3 |
| P-1500 | J-23-1213 | J-23-1214 | 49 | 8 | 140 | -132 | 0.84 | 0.02 | 0.38 | Zone 1 |
| P-335 | RACOBOOS | J-135 | 176 | 8 | 140 | 131 | 0.83 | 0.06 | 0.37 | Zone 1 |
| P-334 | J-33 | RACOBOOS | 411 | 8 | 140 | 131 | 0.83 | 0.15 | 0.37 | Zone 2 |
| P-699 | J-391 | J-399 | 143 | 12 | 140 | -290 | 0.82 | 0.03 | 0.23 | Zone 4 |
| P-122 | J-87 | J-78 | 186 | 10 | 140 | 199 | 0.81 | 0.05 | 0.27 | Zone 2 |
| P-1499 | J22-882 | J-23-1213 | 278 | 8 | 140 | -127 | 0.81 | 0.1 | 0.35 | Zone 4 |
| P-964 | J-385 | J-594 | 655 | 10 | 140 | 197 | 0.81 | 0.17 | 0.26 | Zone 2 |
| 22-N-7 | J22-1175 | J22-882 | 16 | 8 | 140 | -124 | 0.79 | 0.01 | 0.34 | Zone 2 |
| 22-N-7 | J22-1089 | J22-1175 | 32 | 8 | 140 | -124 | 0.79 | 0.01 | 0.33 | Zone 4 |
| P-827 | J-482 | J-391 | 159 | 12 | 140 | -277 | 0.79 | 0.03 | 0.21 | Zone 4 |
| P-438 | J-252 | J-251 | 442 | 10 | 140 | 191 | 0.78 | 0.11 | 0.25 | Zone 4 |
| P-1037 | J-645 | J-646 | 444 | 10 | 140 | 188 | 0.77 | 0.11 | 0.24 | Zone 1 |
| P-1036 | J-644 | J-645 | 470 | 10 | 140 | 188 | 0.77 | 0.11 | 0.24 | Zone 4 |
| P-1216 | J-758 | J-399 | 325 | 10 | 140 | -188 | 0.77 | 0.08 | 0.24 | Zone 4 |
| P-324 | J-51 | J-194 | 661 | 6 | 140 | 67 | 0.77 | 0.29 | 0.44 | Zone 1 |
| P-128 | J-93 | J-80 | 1094 | 10 | 140 | 187 | 0.76 | 0.26 | 0.24 | Zone 1 |
| P-9 | J-8 | J-9 | 2237 | 6 | 120 | 67 | 0.76 | 1.3 | 0.58 | Zone 2 |
| P-975 | J-606 | J-604 | 482 | 8 | 140 | 118 | 0.75 | 0.15 | 0.31 | Zone 2 |
| P-83 | J-63 | J-16 | 1068 | 8 | 110 | 118 | 0.75 | 0.51 | 0.47 | Zone 1 |
| P-93 | J-71 | J-70 | 252 | 8 | 140 | 118 | 0.75 | 0.08 | 0.3 | Zone 2 |
| P-1215 | J-757 | J-758 | 424 | 10 | 140 | -181 | 0.74 | 0.1 | 0.23 | Zone 4 |
| P-1120 | J-482 | J-679 | 119 | 6 | 140 | 64 | 0.73 | 0.05 | 0.4 | Zone 2 |
| P-342 | J-195 | J-184 | 195 | 8 | 140 | -114 | 0.73 | 0.06 | 0.29 | Zone 2 |
| P-436 | J-251 | J-250 | 302 | 10 | 140 | 176 | 0.72 | 0.06 | 0.21 | Zone 1 |
| P-97 | J-70 | J-74 | 290 | 8 | 140 | 112 | 0.71 | 0.08 | 0.27 | Zone 4 |
| P-974 | J-604 | J-597 | 338 | 8 | 140 | 111 | 0.71 | 0.09 | 0.27 | Zone 4 |
| P-25 | J-23 | J-10 | 1879 | 10 | 140 | 174 | 0.71 | 0.39 | 0.21 | Zone 4 |
| P-1094 | J-685 | FH-925 | 120 | 10 | 140 | -173 | 0.71 | 0.03 | 0.21 | Zone 2 |
| P-1082 | FH-926 | J-685 | 330 | 10 | 140 | -173 | 0.71 | 0.07 | 0.21 | Zone 4 |
| P-1095 | FH-925 | J-PH19IRR1 | 190 | 10 | 140 | -173 | 0.71 | 0.04 | 0.21 | Zone 4 |
| P-1091 | FH-927 | FH-926 | 303 | 10 | 140 | -173 | 0.71 | 0.06 | 0.21 | Zone 4 |
| P-1213 | J-PH19IRR1 | J-757 | 62 | 10 | 140 | -173 | 0.71 | 0.01 | 0.21 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-------------------|-------------|-------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1090 | J-675 | FH-927 | 59 | 10 | 140 | -173 | 0.71 | 0.01 | 0.21 | Zone 4 |
| P-192 | J-128 | J-129 | 503 | 8 | 140 | 110 | 0.7 | 0.13 | 0.27 | Zone 4 |
| P-193 | J-129 | J-65 | 229 | 8 | 140 | 110 | 0.7 | 0.06 | 0.27 | Zone 2 |
| P-529 | J-302 | J-300 | 262 | 10 | 140 | 172 | 0.7 | 0.05 | 0.2 | Zone 2 |
| P-693 | J-392 | J-396 | 462 | 10 | 140 | -170 | 0.7 | 0.09 | 0.2 | Zone 2 |
| P-1189 | J-742 | J-241 | 118 | 10 | 140 | -169 | 0.69 | 0.02 | 0.2 | Zone 4 |
| P-1191 | J-743 | J-742 | 132 | 10 | 140 | -169 | 0.69 | 0.03 | 0.2 | Zone 4 |
| P-434 | J-250 | J-246 | 311 | 10 | 140 | 168 | 0.69 | 0.06 | 0.2 | Zone 1 |
| P-214 | J-141 | J-145 | 339 | 10 | 140 | 167 | 0.68 | 0.07 | 0.19 | Zone 1 |
| P-343 | J-196 | J-195 | 273 | 8 | 140 | -105 | 0.67 | 0.07 | 0.25 | Zone 3 |
| P-339 | J-191 | J-193 | 847 | 8 | 140 | 103 | 0.66 | 0.2 | 0.24 | Zone 4 |
| P-1192 | J-396 | J-743 | 405 | 10 | 140 | -161 | 0.66 | 0.07 | 0.18 | Zone 4 |
| P-685 | J-390 | J-392 | 472 | 10 | 140 | -160 | 0.65 | 0.09 | 0.18 | Zone 4 |
| P-344 | J-197 | J-196 | 183 | 8 | 140 | -102 | 0.65 | 0.04 | 0.23 | Zone 4 |
| P-429 | J-139 | J-248 | 390 | 8 | 140 | 102 | 0.65 | 0.09 | 0.23 | Zone 4 |
| P-306 | J-187 | J-139 | 355 | 8 | 140 | 102 | 0.65 | 0.08 | 0.23 | Zone 3 |
| P-307 | J-140 | J-187 | 352 | 8 | 140 | 102 | 0.65 | 0.08 | 0.23 | Zone 3 |
| P-1038 | J-646 | J-647 | 363 | 10 | 140 | 159 | 0.65 | 0.06 | 0.18 | Zone 3 |
| P-1546 | J-706 | J-1252IRR | 196 | 3 | 130 | 14 | 0.64 | 0.16 | 0.82 | Zone 4 |
| P-188 | J-65 | J-125 | 379 | 8 | 140 | 100 | 0.64 | 0.09 | 0.23 | Zone 4 |
| P-1141 | J-714 | J-671 | 95 | 6 | 140 | -56 | 0.63 | 0.03 | 0.31 | Zone 1 |
| P-345 | J-198 | J-197 | 215 | 8 | 140 | -99 | 0.63 | 0.05 | 0.22 | Zone 1 |
| -N-15-122-IRR-117 | J22-1089 | J22-1089 | 276 | 10 | 140 | -154 | 0.63 | 0.05 | 0.17 | Zone 1 |
| -N-15-122-1088 | J22-IRR-117 | J22-IRR-117 | 50 | 10 | 140 | -154 | 0.63 | 0.01 | 0.17 | Zone 2 |
| P-938 | J-483 | J-576 | 490 | 6 | 140 | 55 | 0.63 | 0.15 | 0.3 | Zone 4 |
| P-552 | J-318 | J-311 | 307 | 8 | 140 | 97 | 0.62 | 0.06 | 0.21 | Zone 4 |
| P-1350 | J-194 | J-805 | 198 | 6 | 140 | 54 | 0.61 | 0.06 | 0.29 | Zone 4 |
| P-1349 | J-805 | J-50 | 40 | 6 | 140 | 54 | 0.61 | 0.01 | 0.29 | Zone 4 |
| P-674 | J-387 | J-306 | 465 | 8 | 140 | 96 | 0.61 | 0.1 | 0.21 | Zone 4 |
| P-828 | J-352 | J-482 | 141 | 12 | 140 | -213 | 0.61 | 0.02 | 0.12 | Zone 4 |
| P-121 | J-64 | J-87 | 649 | 10 | 140 | 148 | 0.6 | 0.1 | 0.16 | Zone 4 |
| P-340 | J-193 | J-5 | 1510 | 8 | 140 | 94 | 0.6 | 0.3 | 0.2 | Zone 4 |
| P-764 | J-441 | J-346 | 520 | 6 | 140 | -53 | 0.6 | 0.14 | 0.28 | Zone 1 |
| P-134 | J-44 | ESELEMSC | 892 | 10 | 140 | 145 | 0.59 | 0.13 | 0.15 | Zone 1 |
| P-1100 | J-679 | FH-921 | 205 | 6 | 140 | 52 | 0.59 | 0.06 | 0.27 | Zone 2 |
| P-1101 | FH-921 | J-678 | 237 | 6 | 140 | 52 | 0.59 | 0.06 | 0.27 | Zone 3 |
| P-1098 | FH-922 | J-677 | 233 | 6 | 140 | 52 | 0.59 | 0.06 | 0.27 | Zone 3 |
| P-1099 | J-678 | FH-922 | 76 | 6 | 140 | 52 | 0.59 | 0.02 | 0.27 | Zone 3 |
| 2-N-15-122-1087 | J22-1087 | J22-1088 | 349 | 10 | 140 | -144 | 0.59 | 0.05 | 0.15 | Zone 4 |
| P-431 | J-248 | J-138 | 76 | 8 | 140 | 92 | 0.59 | 0.01 | 0.19 | Zone 4 |
| P-219 | J-146 | J-138 | 387 | 8 | 140 | -92 | 0.59 | 0.07 | 0.19 | Zone 4 |
| P-217 | J-144 | J-137 | 669 | 10 | 140 | 142 | 0.58 | 0.1 | 0.15 | Zone 4 |
| P-536 | J-306 | J-290 | 170 | 8 | 140 | 87 | 0.55 | 0.03 | 0.17 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|---------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-507 | J-290 | J-289 | 725 | 8 | 140 | 87 | 0.55 | 0.12 | 0.17 | Zone 2 |
| P-216 | J-145 | J-144 | 352 | 10 | 140 | 135 | 0.55 | 0.05 | 0.13 | Zone 4 |
| P-129 | J-81 | J-93 | 767 | 10 | 140 | 134 | 0.55 | 0.1 | 0.13 | Zone 2 |
| P-168 | J-112 | J-111 | 1253 | 8 | 140 | 86 | 0.55 | 0.21 | 0.17 | Zone 3 |
| P-6 | J-5 | J-6 | 888 | 8 | 120 | 85 | 0.54 | 0.2 | 0.22 | Zone 1 |
| P-1040 | J-647 | J-597 | 339 | 10 | 140 | 131 | 0.53 | 0.04 | 0.12 | Zone 1 |
| P-1068 | J-669 | J-670 | 75 | 6 | 140 | 47 | 0.53 | 0.02 | 0.22 | Zone 1 |
| P-476 | J-274 | J-114 | 337 | 8 | 140 | 83 | 0.53 | 0.05 | 0.16 | Zone 4 |
| P-766 | J-442 | J-348 | 605 | 6 | 140 | -46 | 0.53 | 0.13 | 0.22 | Zone 4 |
| P-1102 | J-576 | J-570 | 779 | 6 | 140 | 46 | 0.53 | 0.17 | 0.22 | Zone 4 |
| P-143 | J-99 | J-92 | 148 | 8 | 140 | 82 | 0.52 | 0.02 | 0.16 | Zone 2 |
| P-85 | J-40 | J-64 | 738 | 10 | 140 | 128 | 0.52 | 0.09 | 0.12 | Zone 2 |
| P-500 | J-184 | J-286 | 308 | 8 | 140 | 82 | 0.52 | 0.05 | 0.15 | Zone 4 |
| P-320 | J-154 | J-36 | 265 | 8 | 140 | 80 | 0.51 | 0.04 | 0.15 | Zone 2 |
| P-525 | J-298 | J-300 | 268 | 10 | 140 | -125 | 0.51 | 0.03 | 0.11 | Zone 1 |
| P-1067 | J-673 | J-654 | 180 | 8 | 140 | 80 | 0.51 | 0.03 | 0.15 | Zone 4 |
| P-1066 | J-449 | J-673 | 230 | 8 | 140 | 80 | 0.51 | 0.03 | 0.15 | Zone 4 |
| P-763 | J-283 | J-441 | 307 | 6 | 140 | -45 | 0.51 | 0.06 | 0.2 | Zone 4 |
| P-439 | J-252 | J-247 | 822 | 10 | 140 | 123 | 0.5 | 0.09 | 0.11 | Zone 4 |
| P-751 | J-286 | J-438 | 718 | 6 | 140 | 44 | 0.5 | 0.14 | 0.2 | Zone 2 |
| P-197 | J-131 | J-132 | 353 | 6 | 140 | 44 | 0.5 | 0.07 | 0.2 | Zone 4 |
| P-198 | J-132 | J-133 | 362 | 6 | 140 | 44 | 0.5 | 0.07 | 0.2 | Zone 4 |
| P-126 | J-91 | J-90 | 757 | 8 | 140 | 78 | 0.5 | 0.11 | 0.14 | Zone 2 |
| P-1235 | J-656 | J-761 | 254 | 8 | 140 | 77 | 0.49 | 0.04 | 0.14 | Zone 4 |
| P-8 | J-6 | J-8 | 834 | 8 | 120 | 76 | 0.49 | 0.15 | 0.18 | Zone 2 |
| P-749 | J-284 | J-437 | 759 | 6 | 140 | 42 | 0.48 | 0.14 | 0.19 | Zone 2 |
| P-91 | J-16 | J-71 | 556 | 10 | 110 | 118 | 0.48 | 0.09 | 0.16 | Zone 4 |
| P-768 | J-443 | J-352 | 684 | 6 | 140 | -42 | 0.48 | 0.13 | 0.18 | Zone 4 |
| P-109 | J-79 | J-77 | 865 | 8 | 140 | 75 | 0.48 | 0.11 | 0.13 | Zone 2 |
| P-125 | J-90 | J-89 | 406 | 8 | 140 | 74 | 0.47 | 0.05 | 0.13 | Zone 1 |
| P-124 | J-89 | J-88 | 309 | 8 | 140 | 74 | 0.47 | 0.04 | 0.13 | Zone 2 |
| P-253 | J-162 | J-158 | 377 | 8 | 140 | 74 | 0.47 | 0.05 | 0.13 | Zone 2 |
| P-202 | J-134 | J-133 | 716 | 6 | 140 | 41 | 0.47 | 0.13 | 0.17 | Zone 4 |
| P-1108 | FH-919 | J-570 | 65 | 6 | 140 | -41 | 0.47 | 0.01 | 0.18 | Zone 2 |
| P-1049 | J-654 | J-656 | 264 | 8 | 140 | 73 | 0.46 | 0.03 | 0.12 | Zone 4 |
| P-829 | J-483 | J-352 | 144 | 12 | 140 | -162 | 0.46 | 0.01 | 0.07 | Zone 4 |
| P-1084 | J-687 | J-675 | 169 | 10 | 140 | -112 | 0.46 | 0.02 | 0.09 | Zone 4 |
| P-1085 | J-688 | J-687 | 154 | 10 | 140 | -112 | 0.46 | 0.01 | 0.09 | Zone 4 |
| P-700 | J-311 | J-400 | 237 | 6 | 140 | 40 | 0.46 | 0.04 | 0.17 | Zone 4 |
| P-194 | J-130 | J-128 | 482 | 8 | 140 | -71 | 0.45 | 0.06 | 0.12 | Zone 1 |
| P-108 | J-76 | J-79 | 789 | 10 | 140 | 111 | 0.45 | 0.07 | 0.09 | Zone 2 |
| P-255 | J-161 | J-162 | 474 | 8 | 140 | 71 | 0.45 | 0.06 | 0.12 | Zone 2 |
| P-133 | ESELEMSCH | J-81 | 154 | 10 | 140 | 110 | 0.45 | 0.01 | 0.09 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-167 | J-111 | J-110 | 964 | 8 | 140 | 70 | 0.44 | 0.11 | 0.11 | Zone 2 |
| P-560 | J-325 | J-324 | 374 | 6 | 140 | 39 | 0.44 | 0.06 | 0.16 | Zone 1 |
| P-765 | J-284 | J-442 | 439 | 6 | 140 | -39 | 0.44 | 0.07 | 0.16 | Zone 4 |
| P-204 | J-136 | J-135 | 929 | 10 | 140 | -106 | 0.43 | 0.08 | 0.08 | Zone 4 |
| P-1080 | J-683 | FH-929 | 299 | 6 | 140 | -38 | 0.43 | 0.04 | 0.15 | Zone 1 |
| P-1079 | FH-929 | J-681 | 259 | 6 | 140 | -38 | 0.43 | 0.04 | 0.15 | Zone 3 |
| P-601 | J-44 | J-355 | 92 | 10 | 140 | 105 | 0.43 | 0.01 | 0.08 | Zone 4 |
| P-600 | J-355 | J-45 | 395 | 10 | 140 | 105 | 0.43 | 0.03 | 0.08 | Zone 4 |
| P-936 | J-247 | J-319 | 411 | 10 | 140 | 105 | 0.43 | 0.03 | 0.08 | Zone 4 |
| P-199 | J-133 | J-125 | 382 | 8 | 140 | 67 | 0.43 | 0.04 | 0.11 | Zone 2 |
| 22-N-6 | J22-1092 | ELEMSCHO | 35 | 4 | 140 | 17 | 0.43 | 0.01 | 0.24 | Zone 2 |
| P-1058 | J-452 | J-663 | 209 | 6 | 140 | 37 | 0.43 | 0.03 | 0.15 | Zone 4 |
| P-1093 | FH-924 | J-676 | 209 | 6 | 140 | -37 | 0.42 | 0.03 | 0.15 | Zone 4 |
| P-1097 | J-677 | FH-923 | 73 | 6 | 140 | 37 | 0.42 | 0.01 | 0.15 | Zone 2 |
| P-1096 | FH-923 | J-676 | 284 | 6 | 140 | 37 | 0.42 | 0.04 | 0.15 | Zone 2 |
| P-1092 | J-674 | FH-924 | 47 | 6 | 140 | -37 | 0.42 | 0.01 | 0.15 | Zone 4 |
| P-450 | J-246 | J-256 | 266 | 10 | 140 | 102 | 0.42 | 0.02 | 0.08 | Zone 4 |
| P-1230 | J-759 | J-760 | 89 | 6 | 140 | -36 | 0.41 | 0.01 | 0.14 | Zone 4 |
| P-1217 | J-747 | J-759 | 168 | 6 | 140 | -36 | 0.41 | 0.02 | 0.14 | Zone 4 |
| P-551 | J-313 | J-311 | 246 | 8 | 140 | -64 | 0.41 | 0.02 | 0.1 | Zone 4 |
| P-756 | J-302 | J-266 | 757 | 6 | 140 | 36 | 0.41 | 0.1 | 0.14 | Zone 4 |
| P-467 | J-265 | J-267 | 405 | 10 | 140 | 100 | 0.41 | 0.03 | 0.07 | Zone 4 |
| P-107 | J-77 | J-78 | 354 | 8 | 140 | 63 | 0.4 | 0.03 | 0.1 | Zone 4 |
| P-1070 | J-670 | J-671 | 204 | 6 | 140 | 36 | 0.4 | 0.03 | 0.13 | Zone 4 |
| P-262 | J-161 | J-166 | 304 | 8 | 140 | 63 | 0.4 | 0.03 | 0.09 | Zone 4 |
| P-760 | J-323 | J-324 | 152 | 6 | 140 | -35 | 0.4 | 0.02 | 0.13 | Zone 2 |
| P-767 | J-286 | J-443 | 581 | 6 | 140 | -35 | 0.4 | 0.08 | 0.13 | Zone 4 |
| P-59 | J-48 | J-49 | 1409 | 8 | 140 | 62 | 0.4 | 0.13 | 0.09 | Zone 4 |
| P-553 | J-319 | J-318 | 155 | 10 | 140 | 97 | 0.39 | 0.01 | 0.07 | Zone 4 |
| P-123 | J-88 | J-87 | 424 | 8 | 140 | 62 | 0.39 | 0.04 | 0.09 | Zone 2 |
| P-346 | J-198 | J-199 | 233 | 8 | 140 | 61 | 0.39 | 0.02 | 0.09 | Zone 4 |
| P-546 | J-314 | J-298 | 255 | 10 | 140 | -95 | 0.39 | 0.02 | 0.07 | Zone 4 |
| P-1077 | J-680 | J-674 | 191 | 6 | 140 | -34 | 0.39 | 0.02 | 0.13 | Zone 4 |
| P-701 | J-400 | J-401 | 262 | 6 | 140 | 34 | 0.39 | 0.03 | 0.12 | Zone 4 |
| P-691 | J-394 | J-395 | 615 | 8 | 140 | -61 | 0.39 | 0.05 | 0.09 | Zone 4 |
| P-452 | J-256 | J-257 | 285 | 10 | 140 | 94 | 0.39 | 0.02 | 0.07 | Zone 4 |
| P-118 | J-86 | J-85 | 384 | 8 | 140 | 60 | 0.38 | 0.03 | 0.09 | Zone 4 |
| P-605(1) | J-119 | J-1248 | 175 | 8 | 140 | 59 | 0.37 | 0.01 | 0.08 | Zone 1 |
| P-605(2) | J-1248 | J-108 | 272 | 8 | 140 | 59 | 0.37 | 0.02 | 0.08 | Zone 1 |
| P-179 | J-114 | J-120 | 335 | 8 | 140 | 58 | 0.37 | 0.03 | 0.08 | Zone 2 |
| 22-N-15 | J22-1086 | J22-1087 | 366 | 10 | 140 | -90 | 0.37 | 0.02 | 0.06 | Zone 2 |
| 22-N-15 | J22-1085 | J22-1086 | 289 | 10 | 140 | -90 | 0.37 | 0.02 | 0.06 | Zone 2 |
| P-550 | J-316 | J-313 | 274 | 8 | 140 | -58 | 0.37 | 0.02 | 0.08 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-195 | J-131 | J-130 | 527 | 8 | 140 | -58 | 0.37 | 0.04 | 0.08 | Zone 4 |
| P-1107 | J-667 | FH-919 | 199 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-1106 | FH-920 | J-667 | 192 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-1105 | J-666 | FH-920 | 64 | 6 | 140 | -32 | 0.37 | 0.01 | 0.11 | Zone 4 |
| P-154 | J-103 | J-96 | 412 | 8 | 140 | 57 | 0.36 | 0.03 | 0.08 | Zone 4 |
| P-715 | J-415 | J-404 | 198 | 6 | 140 | 32 | 0.36 | 0.02 | 0.11 | Zone 4 |
| P-1167 | J-714 | J-728 | 224 | 6 | 140 | 32 | 0.36 | 0.02 | 0.11 | Zone 4 |
| P-492 | J-283 | J-281 | 270 | 8 | 140 | 57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-137 | J-45 | J-97 | 332 | 8 | 140 | 56 | 0.36 | 0.03 | 0.08 | Zone 4 |
| P-155 | J-97 | J-103 | 513 | 8 | 140 | 56 | 0.36 | 0.04 | 0.08 | Zone 4 |
| P-780 | J-423 | J-449 | 474 | 12 | 140 | 126 | 0.36 | 0.02 | 0.05 | Zone 2 |
| P-537 | J-302 | J-307 | 398 | 6 | 140 | 32 | 0.36 | 0.04 | 0.11 | Zone 2 |
| P-145 | J-45 | J-95 | 918 | 6 | 140 | 31 | 0.36 | 0.1 | 0.11 | Zone 4 |
| P-720 | J-419 | J-297 | 219 | 10 | 140 | -87 | 0.35 | 0.01 | 0.06 | Zone 4 |
| P-1239 | J-761 | J-762 | 278 | 8 | 140 | 55 | 0.35 | 0.02 | 0.08 | Zone 4 |
| P-1056 | J-663 | J-661 | 243 | 6 | 140 | 31 | 0.35 | 0.02 | 0.1 | Zone 2 |
| P-102 | J-40 | J-76 | 341 | 10 | 140 | 85 | 0.35 | 0.02 | 0.06 | Zone 2 |
| P-1212 | J-756 | J-744 | 50 | 6 | 140 | -30 | 0.34 | 0 | 0.1 | Zone 2 |
| P-1196 | J-744 | J-PH19IRR2 | 300 | 6 | 140 | -30 | 0.34 | 0.03 | 0.1 | Zone 2 |
| P-95 | J-73 | J-72 | 405 | 8 | 140 | 54 | 0.34 | 0.03 | 0.07 | Zone 4 |
| P-98 | J-74 | J-73 | 315 | 8 | 140 | 54 | 0.34 | 0.02 | 0.07 | Zone 4 |
| P-752 | J-438 | J-439 | 244 | 6 | 140 | 30 | 0.34 | 0.02 | 0.1 | Zone 4 |
| P-144 | J-95 | J-99 | 722 | 6 | 140 | 30 | 0.34 | 0.07 | 0.1 | Zone 4 |
| P-149 | J-101 | J-100 | 548 | 6 | 140 | 30 | 0.34 | 0.05 | 0.1 | Zone 4 |
| P-1202 | J-749 | J-747 | 218 | 6 | 140 | -30 | 0.34 | 0.02 | 0.1 | Zone 2 |
| P-1204 | J-751 | J-749 | 296 | 6 | 140 | -30 | 0.34 | 0.03 | 0.1 | Zone 2 |
| P-140 | J-96 | J-98 | 707 | 8 | 140 | 52 | 0.33 | 0.05 | 0.07 | Zone 2 |
| P-142 | J-98 | J-99 | 304 | 8 | 140 | 52 | 0.33 | 0.02 | 0.07 | Zone 2 |
| P-545 | J-297 | J-314 | 142 | 10 | 140 | -81 | 0.33 | 0.01 | 0.05 | Zone 4 |
| P-561 | J-281 | J-325 | 267 | 8 | 140 | 51 | 0.33 | 0.02 | 0.06 | Zone 4 |
| P-432 | J-249 | J-146 | 71 | 8 | 140 | 51 | 0.32 | 0 | 0.06 | Zone 2 |
| P-688 | J-393 | J-394 | 364 | 8 | 140 | -51 | 0.32 | 0.02 | 0.06 | Zone 3 |
| P-1121 | J-671 | J-683 | 176 | 6 | 140 | -28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P-453 | J-258 | J-233 | 236 | 10 | 140 | 78 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-499 | J-286 | J-284 | 253 | 8 | 140 | 50 | 0.32 | 0.02 | 0.06 | Zone 4 |
| P-1237 | J-766 | J22-1072 | 172 | 8 | 140 | 48 | 0.31 | 0.01 | 0.06 | Zone 4 |
| P-1352 | J-730 | J-806 | 250 | 10 | 140 | 75 | 0.31 | 0.01 | 0.04 | Zone 2 |
| P-830 | J-348 | J-483 | 158 | 12 | 140 | -106 | 0.3 | 0.01 | 0.04 | Zone 2 |
| P-176 | J-110 | J-119 | 701 | 8 | 140 | 47 | 0.3 | 0.04 | 0.06 | Zone 2 |
| P-261 | J-166 | J-160 | 304 | 8 | 140 | 47 | 0.3 | 0.02 | 0.06 | Zone 4 |
| P-686 | J-390 | J-393 | 303 | 8 | 140 | -47 | 0.3 | 0.02 | 0.05 | Zone 4 |
| P-572 | J-331 | J-427 | 331 | 8 | 140 | 46 | 0.3 | 0.02 | 0.05 | Zone 1 |
| P-742 | J-435 | J-229 | 145 | 8 | 140 | 46 | 0.29 | 0.01 | 0.05 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|------------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-755 | J-300 | J-294 | 625 | 6 | 140 | 26 | 0.29 | 0.05 | 0.07 | Zone 4 |
| P-757 | J-415 | J-316 | 478 | 8 | 140 | -45 | 0.29 | 0.02 | 0.05 | Zone 4 |
| P-723 | J-420 | J-419 | 247 | 10 | 140 | -70 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-1041 | J-570 | J-649 | 189 | 10 | 140 | 70 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-1042 | J-571 | J-649 | 81 | 10 | 140 | -70 | 0.29 | 0 | 0.04 | Zone 4 |
| P-1088 | FH-928 | J-680 | 127 | 6 | 140 | -25 | 0.28 | 0.01 | 0.07 | Zone 4 |
| P-1089 | J-681 | FH-928 | 189 | 6 | 140 | -25 | 0.28 | 0.01 | 0.07 | Zone 4 |
| P-454 | J-257 | J-258 | 198 | 10 | 140 | 69 | 0.28 | 0.01 | 0.04 | Zone 1 |
| P-363 | J-208 | J-215 | 304 | 8 | 140 | 44 | 0.28 | 0.02 | 0.05 | Zone 2 |
| P-89 | J-69 | J-68 | 692 | 8 | 140 | 43 | 0.27 | 0.03 | 0.05 | Zone 4 |
| P-96 | J-74 | J-69 | 414 | 8 | 140 | 43 | 0.27 | 0.02 | 0.05 | Zone 4 |
| P-1203 | J-746 | J-751 | 55 | 6 | 140 | -24 | 0.27 | 0 | 0.07 | Zone 4 |
| P-1197 | J-PH191RR2 | J-746 | 283 | 6 | 140 | -24 | 0.27 | 0.02 | 0.06 | Zone 4 |
| P-750 | J-285 | J-437 | 68 | 8 | 140 | -42 | 0.27 | 0 | 0.04 | Zone 2 |
| P-1064 | J-486 | J-669 | 172 | 6 | 140 | 24 | 0.27 | 0.01 | 0.07 | Zone 4 |
| P-132 | J-91 | J-81 | 179 | 8 | 140 | 42 | 0.27 | 0.01 | 0.04 | Zone 4 |
| P-120 | J-39 | J-84 | 876 | 8 | 140 | 42 | 0.27 | 0.04 | 0.04 | Zone 4 |
| P-215 | J-145 | J-142 | 518 | 6 | 140 | 23 | 0.27 | 0.03 | 0.06 | Zone 4 |
| P-201 | J-92 | J-134 | 483 | 10 | 140 | 65 | 0.26 | 0.02 | 0.03 | Zone 2 |
| P-1071 | J-674 | J-570 | 271 | 10 | 140 | 65 | 0.26 | 0.01 | 0.03 | Zone 2 |
| P-1211 | J-755 | J-756 | 428 | 6 | 140 | -23 | 0.26 | 0.03 | 0.06 | Zone 2 |
| P-116 | J-84 | J-83 | 377 | 8 | 140 | 41 | 0.26 | 0.02 | 0.04 | Zone 2 |
| P-1065 | J-669 | J-665 | 183 | 6 | 140 | -23 | 0.26 | 0.01 | 0.06 | Zone 3 |
| P-1059 | J-665 | J-666 | 326 | 6 | 140 | -23 | 0.26 | 0.02 | 0.06 | Zone 2 |
| P-479 | J-274 | J-275 | 854 | 8 | 140 | 41 | 0.26 | 0.04 | 0.04 | Zone 4 |
| P-702 | J-401 | J-402 | 259 | 6 | 140 | 23 | 0.26 | 0.02 | 0.06 | Zone 4 |
| 22-146 | J22-1173 | J22-1087 | 31 | 8 | 140 | -40 | 0.26 | 0 | 0.05 | Zone 4 |
| 22-146 | J22-874 | J22-1173 | 16 | 8 | 140 | -40 | 0.26 | 0 | 0.03 | Zone 4 |
| P-705 | J-404 | J-405 | 285 | 6 | 140 | 23 | 0.26 | 0.02 | 0.06 | Zone 4 |
| P-1111 | FH-917 | FH-918 | 243 | 6 | 140 | -22 | 0.26 | 0.01 | 0.06 | Zone 4 |
| P-1110 | FH-918 | J-659 | 45 | 6 | 140 | -22 | 0.26 | 0 | 0.05 | Zone 4 |
| P-1109 | J-658 | FH-917 | 111 | 6 | 140 | -22 | 0.26 | 0.01 | 0.06 | Zone 4 |
| 22-N-15 | J22-1084 | J22-1085 | 278 | 10 | 140 | -62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-80 | J-62 | J-40 | 414 | 10 | 140 | -62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1072 | J-675 | J-674 | 186 | 10 | 140 | 62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-461 | J-246 | J-265 | 195 | 10 | 140 | 62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1033 | J-642 | J-571 | 79 | 10 | 140 | -62 | 0.25 | 0 | 0.03 | Zone 4 |
| P-1026 | J-613 | J-639 | 141 | 10 | 140 | -62 | 0.25 | 0 | 0.03 | Zone 4 |
| P-1032 | J-639 | J-642 | 697 | 10 | 140 | -62 | 0.25 | 0.02 | 0.03 | Zone 4 |
| P-1243 | J-1071 | J-768 | 77 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-1357 | J-806 | J-810 | 267 | 10 | 140 | 61 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1328 | J-799 | J-764 | 50 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-1327 | J-763 | J-799 | 187 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-347 | J-199 | J-200 | 241 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-1491 | J22-874 | J-23-1207 | 87 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-759 | J-269 | J-323 | 489 | 6 | 140 | -22 | 0.25 | 0.03 | 0.05 | Zone 4 |
| P-462 | J-266 | J-265 | 208 | 8 | 140 | 38 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-803 | J-453 | J-466 | 510 | 6 | 140 | 22 | 0.24 | 0.03 | 0.05 | Zone 4 |
| P-119 | J-38 | J-86 | 270 | 10 | 140 | 60 | 0.24 | 0.01 | 0.03 | Zone 4 |
| P-171 | J-114 | J-115 | 477 | 8 | 140 | 38 | 0.24 | 0.02 | 0.04 | Zone 2 |
| P-1244 | J-762 | J-763 | 260 | 8 | 140 | 38 | 0.24 | 0.01 | 0.04 | Zone 2 |
| P-468 | J-267 | J-268 | 229 | 10 | 140 | 59 | 0.24 | 0.01 | 0.03 | Zone 4 |
| P-538 | J-307 | J-308 | 435 | 6 | 140 | 21 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-430 | J-141 | J-249 | 861 | 10 | 140 | 59 | 0.24 | 0.02 | 0.03 | Zone 4 |
| P-1208 | J-480 | J-753 | 345 | 6 | 140 | 21 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-1168 | J-715 | J-728 | 93 | 6 | 140 | -20 | 0.23 | 0 | 0.05 | Zone 4 |
| P-1238 | J22-1072 | J-767 | 90 | 8 | 140 | 36 | 0.23 | 0 | 0.04 | Zone 2 |
| P-833 | J-455 | J-484 | 516 | 6 | 140 | 20 | 0.23 | 0.02 | 0.05 | Zone 2 |
| P-568 | J-331 | J-330 | 516 | 8 | 140 | 36 | 0.23 | 0.02 | 0.03 | Zone 3 |
| 492(1) | J-23-1207 | J-23-1228 | 300 | 8 | 140 | 35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-1087 | J-689 | J-690 | 227 | 6 | 140 | -20 | 0.22 | 0.01 | 0.05 | Zone 4 |
| P-1104 | FH-930 | J-688 | 71 | 6 | 140 | -20 | 0.22 | 0 | 0.05 | Zone 1 |
| P-1103 | J-690 | FH-930 | 133 | 6 | 140 | -20 | 0.22 | 0.01 | 0.04 | Zone 4 |
| P-1451 | J22-902 | J-421 | 48 | 10 | 140 | -54 | 0.22 | 0 | 0.02 | Zone 4 |
| P-463 | TANK3 | J-243 | 652 | 10 | 140 | -54 | 0.22 | 0.02 | 0.02 | Zone 4 |
| P-495 | J-284 | J-283 | 282 | 8 | 140 | 34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-94 | J-72 | J-66 | 894 | 8 | 140 | 34 | 0.22 | 0.03 | 0.03 | Zone 4 |
| P-502 | J-288 | J-285 | 255 | 8 | 140 | -34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-362 | J-215 | J-214 | 237 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-813 | J-474 | J-452 | 196 | 6 | 140 | 18 | 0.21 | 0.01 | 0.04 | Zone 4 |
| J22-N-15 | J22-1083 | J22-1084 | 280 | 10 | 140 | -51 | 0.21 | 0.01 | 0.02 | Zone 2 |
| P-834 | J-454 | J-485 | 706 | 6 | 140 | 18 | 0.21 | 0.03 | 0.04 | Zone 4 |
| P-234 | J-154 | J-153 | 370 | 8 | 140 | 32 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-1259 | J-761 | J-775 | 165 | 8 | 140 | 32 | 0.2 | 0 | 0.03 | Zone 4 |
| P-1251 | J-769 | J-715 | 259 | 6 | 140 | -18 | 0.2 | 0.01 | 0.04 | Zone 4 |
| P-523 | J-298 | J-295 | 460 | 6 | 140 | 17 | 0.2 | 0.02 | 0.04 | Zone 4 |
| P-1054 | J-661 | J-659 | 233 | 6 | 140 | 17 | 0.19 | 0.01 | 0.04 | Zone 4 |
| P-503 | J-208 | J-288 | 206 | 8 | 140 | -30 | 0.19 | 0 | 0.02 | Zone 1 |
| P-247 | J-157 | J-67 | 592 | 8 | 140 | 30 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-246 | J-68 | J-157 | 352 | 8 | 140 | 30 | 0.19 | 0.01 | 0.02 | Zone 3 |
| P-389 | J-233 | J-223 | 407 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-753 | J-439 | J-288 | 68 | 8 | 140 | 30 | 0.19 | 0 | 0.02 | Zone 4 |
| P-115 | J-83 | J-82 | 298 | 8 | 140 | 30 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-114 | J-82 | J-64 | 366 | 8 | 140 | 30 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-798 | J-462 | J-420 | 244 | 10 | 140 | -47 | 0.19 | 0 | 0.02 | Zone 4 |
| P-721 | J-418 | J-419 | 381 | 6 | 140 | -17 | 0.19 | 0.01 | 0.03 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-570 | J-332 | J-333 | 186 | 8 | 140 | 30 | 0.19 | 0 | 0.02 | Zone 1 |
| P-779 | J-423 | J-421 | 691 | 10 | 140 | 46 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-1242 | J-767 | J-1071 | 187 | 8 | 140 | 29 | 0.19 | 0 | 0.02 | Zone 4 |
| 2-N-15 | J22-1090 | J22-1091 | 366 | 10 | 140 | -46 | 0.19 | 0.01 | 0.02 | Zone 4 |
| 2-N-15 | J22-1091 | J22-902 | 162 | 10 | 140 | -46 | 0.19 | 0 | 0.02 | Zone 4 |
| 2-N-15 | J22-1082 | J22-1083 | 196 | 10 | 140 | -46 | 0.19 | 0 | 0.02 | Zone 4 |
| P-743 | J-233 | J-435 | 85 | 10 | 140 | 46 | 0.19 | 0 | 0.02 | Zone 4 |
| 1492(1) | J-23-1228 | J-23-1223 | 348 | 8 | 140 | 29 | 0.19 | 0.01 | 0.02 | Zone 4 |
| 1492(2) | J-23-1223 | J-23-1208 | 16 | 8 | 140 | 29 | 0.19 | 0 | 0.03 | Zone 4 |
| P-1364 | J-810 | J-815 | 257 | 10 | 140 | 45 | 0.18 | 0 | 0.02 | Zone 2 |
| P-1428- | J22-1069 | J-853 | 149 | 8 | 140 | -29 | 0.18 | 0 | 0.02 | Zone 2 |
| P-1429- | J-853 | J22-1070 | 86 | 8 | 140 | -29 | 0.18 | 0 | 0.02 | Zone 4 |
| P-459 | J-257 | J-263 | 149 | 6 | 140 | 16 | 0.18 | 0 | 0.03 | Zone 4 |
| P-697 | J-397 | J-398 | 372 | 8 | 140 | -28 | 0.18 | 0.01 | 0.02 | Zone 4 |
| P-393 | J-229 | J-227 | 238 | 8 | 140 | 28 | 0.18 | 0 | 0.02 | Zone 4 |
| P-791 | J-423 | J-460 | 169 | 10 | 140 | 44 | 0.18 | 0 | 0.02 | Zone 4 |
| P-478 | J-275 | J-114 | 798 | 8 | 140 | 28 | 0.18 | 0.02 | 0.02 | Zone 4 |
| P-1209 | J-481 | J-755 | 329 | 6 | 140 | -16 | 0.18 | 0.01 | 0.03 | Zone 4 |
| P-786 | J-455 | J-456 | 189 | 12 | 140 | -62 | 0.18 | 0 | 0.01 | Zone 4 |
| P-540 | J-300 | J-310 | 452 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 4 |
| P-1428- | J22-848 | J22-1069 | 191 | 8 | 140 | -28 | 0.18 | 0 | 0.02 | Zone 4 |
| P-235 | J-154 | J-155 | 404 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-814 | J-475 | J-474 | 214 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 2 |
| P-993 | J-456 | J-613 | 398 | 10 | 140 | -42 | 0.17 | 0.01 | 0.01 | Zone 2 |
| P-251 | J-160 | J-159 | 376 | 8 | 140 | 27 | 0.17 | 0.01 | 0.02 | Zone 1 |
| P-162 | J-108 | J-106 | 343 | 8 | 140 | 27 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P-172 | J-115 | J-116 | 806 | 8 | 140 | 27 | 0.17 | 0.02 | 0.02 | Zone 4 |
| P-547 | J-315 | J-314 | 480 | 6 | 140 | -15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-821 | J-460 | J-478 | 492 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-748 | J-283 | J-282 | 757 | 6 | 140 | 15 | 0.17 | 0.02 | 0.03 | Zone 4 |
| P-517 | J-296 | J-295 | 262 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-212 | J-142 | J-143 | 380 | 6 | 140 | 14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-1362 | J-814 | J-769 | 371 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-573 | J-427 | J-327 | 350 | 8 | 140 | 24 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-348 | J-200 | J-201 | 237 | 8 | 140 | 24 | 0.16 | 0 | 0.02 | Zone 4 |
| P-1260 | J-775 | J-766 | 237 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 1 |
| P-1207 | J-753 | J-752 | 410 | 6 | 140 | 14 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-485 | J-270 | J-278 | 481 | 6 | 140 | -14 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-1493 | J-23-1208 | J-23-1209 | 54 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 3 |
| P-1497 | J-23-1210 | J-766 | 137 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 1 |
| P-1494 | J-23-1209 | J-23-1210 | 48 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 2 |
| P-1257 | J-774 | J-714 | 276 | 8 | 140 | -24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1256 | J-771 | J-774 | 109 | 8 | 140 | -24 | 0.15 | 0 | 0.01 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-79 | J-39 | J-62 | 344 | 10 | 140 | -37 | 0.15 | 0 | 0.01 | Zone 4 |
| P-101 | J-75 | J-66 | 388 | 10 | 140 | -37 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1429 | J22-1070 | J-768 | 190 | 8 | 140 | -24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-991 | J-485 | J-486 | 261 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-127 | J-90 | J-85 | 317 | 10 | 140 | -37 | 0.15 | 0 | 0.01 | Zone 4 |
| P-617 | J-346 | J-348 | 297 | 12 | 140 | -53 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1430 | J22-848 | J-854 | 52 | 8 | 140 | 23 | 0.15 | 0 | 0.02 | Zone 4 |
| P-817 | J-420 | J-477 | 430 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-1122 | J-681 | J-689 | 116 | 6 | 140 | -13 | 0.15 | 0 | 0.02 | Zone 4 |
| P-405 | J-214 | J-239 | 245 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 4 |
| P-484 | J-267 | J-278 | 397 | 8 | 140 | 22 | 0.14 | 0.01 | 0.01 | Zone 4 |
| P-515 | J-294 | J-266 | 275 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 4 |
| P-706 | J-405 | J-406 | 300 | 6 | 140 | 12 | 0.14 | 0.01 | 0.02 | Zone 4 |
| P-543 | J-312 | J-298 | 499 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 2 |
| P-184 | J-120 | J-123 | 940 | 10 | 140 | 34 | 0.14 | 0.01 | 0.01 | Zone 2 |
| P-953 | J-288 | J-586 | 197 | 10 | 140 | 34 | 0.14 | 0 | 0.01 | Zone 4 |
| P-992 | J-484 | J-485 | 259 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 4 |
| P-487 | J-272 | J-279 | 343 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 4 |
| P-703 | J-403 | J-402 | 274 | 6 | 140 | -12 | 0.13 | 0 | 0.02 | Zone 4 |
| P-355 | J-198 | J-208 | 669 | 8 | 140 | 21 | 0.13 | 0.01 | 0.01 | Zone 4 |
| P-1361 | J-770 | J-814 | 134 | 6 | 140 | -12 | 0.13 | 0 | 0.02 | Zone 4 |
| P-782 | J-449 | J-452 | 389 | 12 | 140 | 46 | 0.13 | 0 | 0.01 | Zone 4 |
| P-1051 | J-656 | J-658 | 197 | 6 | 140 | -12 | 0.13 | 0 | 0.01 | Zone 2 |
| P-177 | J-118 | J-119 | 352 | 8 | 140 | 21 | 0.13 | 0 | 0.01 | Zone 4 |
| P-1178 | J-728 | J-733 | 220 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-1424 | J-847 | J-850 | 61 | 8 | 140 | 20 | 0.13 | 0 | 0.01 | Zone 4 |
| 22-145 | J22-1080 | J22-1082 | 221 | 10 | 140 | -32 | 0.13 | 0 | 0.01 | Zone 4 |
| P-730 | J-416 | J-425 | 242 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-1069 | J-660 | J-670 | 91 | 6 | 140 | -11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-694 | J-396 | J-397 | 281 | 8 | 140 | -20 | 0.13 | 0 | 0.01 | Zone 4 |
| P-815 | J-476 | J-475 | 219 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-555 | J-269 | J-320 | 146 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 4 |
| P-164 | J-108 | J-109 | 885 | 8 | 140 | 20 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-1131 | J-704 | J-613 | 480 | 8 | 140 | -19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-758 | J-269 | J-321 | 454 | 6 | 140 | 11 | 0.12 | 0.01 | 0.02 | Zone 4 |
| P-103 | J-76 | J-75 | 329 | 10 | 140 | -30 | 0.12 | 0 | 0.01 | Zone 4 |
| P-819 | J-461 | J-475 | 597 | 6 | 140 | 11 | 0.12 | 0.01 | 0.01 | Zone 2 |
| P-835 | J-466 | J-486 | 389 | 6 | 140 | 11 | 0.12 | 0.01 | 0.01 | Zone 2 |
| P-569 | J-330 | J-332 | 245 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-130 | J-93 | J-90 | 206 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 4 |
| 2-N-15 | J22-1089 | J22-1090 | 345 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1379 | J-815 | J-820 | 47 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1400 | J-819 | J-829 | 89 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |

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|---------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1380 | J-820 | J-819 | 131 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-486 | J-268 | J-279 | 352 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-724 | J-420 | J-417 | 394 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 1 |
| P-717 | J-416 | J-417 | 277 | 6 | 140 | -10 | 0.12 | 0 | 0.01 | Zone 4 |
| P-480 | J-267 | J-276 | 476 | 8 | 140 | 18 | 0.12 | 0 | 0.01 | Zone 4 |
| P-401 | J-229 | J-238 | 407 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-1399 | J-255 | ALLEYCHU | 263 | 8 | 140 | 18 | 0.11 | 0 | 0.01 | Zone 4 |
| P-785 | J-454 | J-455 | 249 | 12 | 140 | -40 | 0.11 | 0 | 0.01 | Zone 4 |
| P-74 | J-57 | J-58 | 581 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| J2-N-15 | J22-1079 | J22-1080 | 381 | 10 | 140 | -27 | 0.11 | 0 | 0.01 | Zone 2 |
| P-469 | J-268 | J-269 | 289 | 10 | 140 | 27 | 0.11 | 0 | 0.01 | Zone 2 |
| P-539 | J-309 | J-308 | 263 | 6 | 140 | -10 | 0.11 | 0 | 0.01 | Zone 2 |
| P-181 | J-121 | J-122 | 538 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-180 | J-120 | J-121 | 307 | 6 | 140 | 10 | 0.11 | 0 | 0.01 | Zone 2 |
| P-818 | J-462 | J-476 | 507 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-1431 | J-854 | J-855 | 293 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 2 |
| J2-N-6 | J22-1090 | J22-1092 | 32 | 8 | 140 | 17 | 0.11 | 0 | 0 | Zone 2 |
| P-183 | J-123 | J-118 | 356 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| J2-N-12 | J22-1085 | J22-1166 | 54 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| J2-N-12 | J22-1166 | J22-1168 | 125 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-394 | J-227 | J-225 | 240 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-135 | J-95 | ESELEMSC | 652 | 10 | 140 | -25 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1358 | J-810 | J-811 | 82 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-535 | J-304 | J-305 | 590 | 6 | 140 | 9 | 0.1 | 0.01 | 0.01 | Zone 2 |
| P-1421 | J-765 | J-847 | 63 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 2 |
| P-1247 | J-764 | J-765 | 147 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-87 | J-66 | J-67 | 461 | 8 | 140 | -16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1185 | J-736 | J-730 | 186 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-820 | J-478 | J-474 | 222 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1277 | J-768 | J-781 | 211 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-708 | J-406 | J-408 | 225 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-718 | J-417 | J-418 | 243 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-81 | J-61 | J-62 | 433 | 8 | 140 | -15 | 0.1 | 0 | 0.01 | Zone 1 |
| P-200 | J-134 | J-93 | 189 | 10 | 140 | 23 | 0.1 | 0 | 0.01 | Zone 4 |
| P-77 | J-38 | J-60 | 354 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1280 | J-764 | J-782 | 70 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-955 | J-425 | J-587 | 100 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1425 | J-850 | J-851 | 253 | 8 | 140 | 15 | 0.09 | 0 | 0.01 | Zone 4 |
| P-231 | J-153 | J-150 | 377 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 2 |
| P-1401 | J-829 | J-830 | 287 | 10 | 140 | 22 | 0.09 | 0 | 0 | Zone 3 |
| P-254 | J-159 | J-162 | 576 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-787 | J-320 | J-456 | 682 | 10 | 140 | 22 | 0.09 | 0 | 0.01 | Zone 4 |
| P-481 | J-276 | J-271 | 438 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-793 | J-460 | J-459 | 516 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-174 | J-117 | J-118 | 570 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 1 |
| P-173 | J-116 | J-117 | 528 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1483 | J-23-1197 | J-1198 | 113 | 8 | 140 | -14 | 0.09 | 0 | 0 | Zone 4 |
| P-542 | J-311 | J-309 | 178 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-482 | J-268 | J-277 | 372 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1353 | J-806 | J-807 | 71 | 8 | 140 | 14 | 0.09 | 0 | 0 | Zone 4 |
| P-2-N-12 | J22-1168 | J22-1169 | 299 | 8 | 140 | 13 | 0.09 | 0 | 0 | Zone 4 |
| P-213 | J-143 | J-144 | 693 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-799 | J-462 | J-426 | 629 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 2 |
| P-726 | J-421 | J-415 | 1019 | 8 | 140 | -13 | 0.08 | 0.01 | 0.01 | Zone 4 |
| P-1403 | J-770 | J-832 | 365 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1118 | J-656 | FH-916 | 61 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1115 | FH-914 | J-655 | 253 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-390 | J-233 | J-231 | 335 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1119 | FH-916 | J-657 | 258 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1114 | J-654 | FH-914 | 64 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-737 | J-430 | J-206 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-385 | J-227 | J-228 | 355 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 1 |
| P-1113 | FH-915 | J-662 | 254 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-387 | J-229 | J-230 | 337 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-383 | J-225 | J-226 | 331 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-735 | J-429 | J-205 | 208 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1112 | J-661 | FH-915 | 52 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-733 | J-428 | J-204 | 208 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-816 | J-477 | J-476 | 215 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-232 | J-153 | J-152 | 566 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-796 | J-461 | J-458 | 570 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-403 | J-238 | J-221 | 231 | 8 | 140 | 13 | 0.08 | 0 | 0 | Zone 4 |
| P-811 | J-472 | J-272 | 97 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 1 |
| P-22-145 | J22-898 | J22-1072 | 44 | 8 | 140 | -12 | 0.08 | 0 | 0.01 | Zone 1 |
| P-2-N-13 | J22-1172 | J22-898 | 290 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| P-775 | J-446 | J-448 | 544 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-406 | J-239 | J-212 | 238 | 8 | 140 | 12 | 0.08 | 0 | 0.01 | Zone 4 |
| P-783 | J-452 | J-453 | 256 | 12 | 140 | 27 | 0.08 | 0 | 0 | Zone 4 |
| P-44 | J-38 | J-39 | 1015 | 10 | 140 | 19 | 0.08 | 0 | 0 | Zone 4 |
| P-772 | J-327 | J-446 | 354 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-1405 | J-833 | J-834 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 4 |
| P-512 | J-280 | J-282 | 243 | 6 | 140 | -7 | 0.07 | 0 | 0 | Zone 1 |
| P-1482 | J-23-1196 | J-23-1197 | 116 | 8 | 140 | -12 | 0.07 | 0 | 0 | Zone 2 |
| P-1117 | FH-913 | J-664 | 190 | 6 | 140 | 7 | 0.07 | 0 | 0.01 | Zone 2 |
| P-1116 | J-663 | FH-913 | 59 | 6 | 140 | 7 | 0.07 | 0 | 0 | Zone 2 |
| P-1487 | J22-1085 | J23-IRR | 39 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1487(2) | J23-IRR | J-23-1203 | 143 | 8 | 140 | 12 | 0.07 | 0 | 0.01 | Zone 1 |
| 2-N-15- | J-1179 | J22-1079 | 248 | 10 | 140 | -18 | 0.07 | 0 | 0 | Zone 1 |
| P-812 | J-321 | J-473 | 84 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| 22-N-11 | J22-1084 | J22-1164 | 30 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |
| P-516 | J-295 | J-294 | 261 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-117 | J-85 | J-84 | 409 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-236 | J-155 | J-152 | 410 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-158 | J-106 | J-105 | 370 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-157 | J-105 | J-104 | 617 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-1205 | J-752 | J-PH19IRR2 | 55 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1046 | J-647 | J-653 | 566 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-973 | J-597 | J-603 | 572 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 1 |
| P-1045 | J-646 | J-652 | 569 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-520 | J-297 | J-296 | 403 | 6 | 140 | -6 | 0.07 | 0 | 0 | Zone 4 |
| P-1129 | LDG3-CCC | J-704 | 52 | 8 | 140 | -11 | 0.07 | 0 | 0.01 | Zone 4 |
| P-954 | J-586 | J-264 | 190 | 10 | 140 | 17 | 0.07 | 0 | 0 | Zone 1 |
| P-574 | J-427 | J-332 | 522 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-797 | J-461 | J-462 | 242 | 10 | 140 | -17 | 0.07 | 0 | 0 | Zone 4 |
| P-165 | J-109 | J-104 | 278 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-741 | J-195 | J-434 | 300 | 6 | 140 | 6 | 0.07 | 0 | 0 | Zone 4 |
| P-156 | J-104 | J-103 | 364 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 1 |
| P-1422 | J-847 | J22-848 | 226 | 8 | 140 | -10 | 0.07 | 0 | 0 | Zone 4 |
| P-1432 | J-855 | J-856 | 242 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-349 | J-201 | J-202 | 225 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-585 | J-160 | J-343 | 544 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-935 | J-589 | J-590 | 507 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-931 | J-589 | J-588 | 540 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-1254 | J-773 | J-771 | 320 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-1253 | J-761 | J-773 | 65 | 8 | 140 | -10 | 0.06 | 0 | 0.01 | Zone 1 |
| P-378 | J-221 | J-220 | 249 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1418 | J-845 | J-834 | 162 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-136 | J-96 | J-95 | 334 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-808 | J-470 | J-270 | 102 | 6 | 140 | -6 | 0.06 | 0 | 0 | Zone 4 |
| P-810 | J-471 | J-470 | 449 | 6 | 140 | -6 | 0.06 | 0 | 0 | Zone 4 |
| 22-145 | J22-896 | J-1071 | 55 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 1 |
| 22-N-12 | J22-1169 | J22-896 | 119 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1283 | J-782 | J-783 | 381 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-414 | J-223 | J-238 | 233 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| 2-1458 | J22-901 | J-1184 | 44 | 10 | 140 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-1450 | J22-901 | J-830 | 160 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| -1458(2) | J-1184 | J-1199 | 21 | 10 | 140 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-541 | J-309 | J-310 | 372 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-1053 | J-659 | J-660 | 336 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-809 | J-453 | J-471 | 432 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| N-15-2 | J-1183 | J-1179 | 254 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| -15-2-1 | J-1200 | J-1183 | 139 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-745 | J-257 | J-436 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-1472 | J-23-1186 | J-23-1187 | 75 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-1484 | J-23-1186 | J-1199 | 65 | 8 | 140 | -9 | 0.06 | 0 | 0.01 | Zone 1 |
| J2-N-11 | J22-1164 | J22-1165 | 138 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-773 | J-333 | J-446 | 387 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-1368 | J-818 | J-770 | 379 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-14 | J-13 | J-14 | 1017 | 10 | 110 | 14 | 0.06 | 0 | 0 | Zone 4 |
| P-595 | J-350 | J-14 | 534 | 10 | 110 | -14 | 0.06 | 0 | 0 | Zone 4 |
| P-1132 | J-350 | J-706 | 78 | 10 | 140 | 14 | 0.06 | 0 | 0 | Zone 4 |
| P-1263 | J-762 | J-776 | 164 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-483 | J-277 | J-273 | 342 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-713 | J-401 | J-413 | 304 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-710 | J-404 | J-410 | 271 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-711 | J-403 | J-411 | 277 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-712 | J-402 | J-412 | 288 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-565 | J-330 | J-329 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-774 | J-333 | J-447 | 319 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-581 | J-341 | J-336 | 180 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-1481 | J-23-1195 | J-23-1196 | 110 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1426 | J-851 | J-852 | 214 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-384 | J-227 | J-221 | 420 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-994 | J-571 | MIDDLESCH | 221 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1278 | J-781 | J-763 | 187 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-548 | J-316 | J-315 | 479 | 6 | 140 | -5 | 0.05 | 0 | 0 | Zone 2 |
| P-1265 | J-762 | J-777 | 60 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1268 | J-777 | J-778 | 331 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-365 | J-199 | J-215 | 680 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-1473 | J-23-1187 | J-23-1188 | 47 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-986 | J-612 | J-611 | 561 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-794 | J-460 | J-461 | 258 | 10 | 140 | 12 | 0.05 | 0 | 0 | Zone 4 |
| P-228 | J-150 | J-151 | 709 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-754 | J-438 | J-440 | 108 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-455 | J-246 | J-259 | 165 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-456 | J-256 | J-260 | 180 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-709 | J-405 | J-409 | 256 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 1 |
| P-1365 | J-815 | J-816 | 84 | 8 | 140 | 8 | 0.05 | 0 | 0.01 | Zone 4 |
| P-1413 | J-830 | J-841 | 54 | 8 | 140 | 7 | 0.05 | 0 | 0.01 | Zone 4 |
| P-1414 | J-841 | J-842 | 266 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1271 | J-763 | J-779 | 61 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1274 | J-779 | J-780 | 128 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |

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Distribution System Pipe Report

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|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-350 | J-203 | J-198 | 510 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 4 |
| P-354 | J-202 | J-207 | 506 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-732 | J-199 | J-428 | 306 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-734 | J-200 | J-429 | 299 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-736 | J-201 | J-430 | 305 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-395 | J-225 | J-218 | 238 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1412 | J-840 | J-832 | 266 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 4 |
| P-580 | J-166 | J-340 | 483 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1407 | J-829 | J-836 | 75 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1359 | J-811 | J-812 | 267 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 1 |
| P-1360 | J-812 | J-813 | 241 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1480 | J-23-1194 | J-23-1195 | 174 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 1 |
| P-1485 | J-1200 | J-23-1201 | 115 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-707 | J-406 | J-407 | 195 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-738 | J-197 | J-431 | 104 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-457 | J-256 | J-261 | 111 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-532 | J-266 | J-303 | 100 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| J2-N-11 | J22-1165 | J22-892 | 212 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1127 | FH-931 | J-705 | 187 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1130 | J-705 | BLDG3-CCC | 79 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1128 | 4-VILLAGE | FH-931 | 250 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-460 | J-264 | J-258 | 354 | 10 | 140 | 10 | 0.04 | 0 | 0 | Zone 4 |
| J2-N-10 | J22-1160 | J22-1082 | 39 | 8 | 140 | -6 | 0.04 | 0 | 0.01 | Zone 4 |
| J2-N-10 | J22-887 | J22-1160 | 157 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| J22-145 | J22-848 | J22-887 | 205 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-404 | J-201 | J-239 | 683 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-1462 | J-835 | J-1179 | 105 | 6 | 150 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-1406 | J-834 | J-835 | 166 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| J2-N-13 | J22-1171 | J22-1172 | 312 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-359 | J-202 | J-212 | 668 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1434 | J-847 | J-857 | 66 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1435 | J-857 | J-858 | 130 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1474 | J-23-1188 | J-23-1189 | 489 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 1 |
| P-1354 | J-807 | J-808 | 247 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1355 | J-808 | J-809 | 272 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1039 | J-647 | J-648 | 339 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1404 | J-832 | J-833 | 308 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-784 | J-453 | J-454 | 253 | 12 | 140 | -12 | 0.03 | 0 | 0 | Zone 4 |
| P-443 | J-218 | J-254 | 307 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| J-15-2-1 | J22-1078 | J-1200 | 119 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| J-N-15-1 | J-1198 | J22-1078 | 177 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 2 |
| P-739 | J-196 | J-432 | 111 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 2 |
| P-740 | J-195 | J-433 | 141 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-182 | J-123 | J-122 | 586 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-1 | J22-1088 | J22-1174 | 32 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-1 | J22-1174 | J22-880 | 16 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 2 |
| P-396 | J-185 | J-234 | 303 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 1 |
| 22-145 | J22-892 | J22-1070 | 71 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-729 | J-421 | J-424 | 690 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-687 | J-393 | J-391 | 773 | 8 | 140 | -5 | 0.03 | 0 | 0 | Zone 3 |
| P-366 | J-200 | J-214 | 676 | 6 | 140 | -3 | 0.03 | 0 | 0 | Zone 4 |
| P-1284 | J-783 | J-770 | 271 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1083 | J22-1161 | 29 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-377 | J-220 | J-219 | 290 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-5 | J22-1079 | J22-1158 | 35 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-3 | J22-1080 | J22-1159 | 33 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 4 |
| P-1489 | J-23-1203 | J-23-1205 | 191 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 4 |
| P-196 | J-131 | J-92 | 421 | 8 | 140 | -4 | 0.03 | 0 | 0 | Zone 4 |
| P-229 | J-152 | J-151 | 477 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-832 | J-455 | J-473 | 475 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-544 | J-313 | J-312 | 499 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1433 | J-856 | J-833 | 214 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1419 | J-843 | J-846 | 53 | 8 | 150 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1486 | J-23-1201 | J-23-1202 | 148 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1420 | J-846 | J-844 | 143 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1488 | J-23-1203 | J-23-1204 | 288 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1458 | J-1199 | J22-899 | 203 | 10 | 140 | 6 | 0.02 | 0 | 0 | Zone 4 |
| P-N-15 | J22-899 | J-1198 | 100 | 10 | 140 | 6 | 0.02 | 0 | 0 | Zone 4 |
| P-1475 | J-23-1189 | J-23-1190 | 5144 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-382 | J-220 | J-225 | 416 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1479 | J-23-1193 | J-23-1194 | 5137 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| 22-N-13 | J22-1170 | J22-1171 | 147 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1498 | J22-880 | J-23-1212 | 109 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1427 | J-852 | J-832 | 195 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-704 | J-404 | J-403 | 265 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1269 | J-778 | J-715 | 227 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1417 | J-843 | J-845 | 411 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1161 | J22-1163 | 138 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1356 | J-809 | J-769 | 698 | 8 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-790 | J-459 | J-458 | 254 | 6 | 140 | 1 | 0.02 | 0 | 0 | Zone 4 |
| P-225 | J-95 | J-54 | 375 | 12 | 110 | -5 | 0.01 | 0 | 0 | Zone 4 |
| P-1179 | J-733 | J-731 | 232 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1180 | J-731 | J-734 | 85 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1183 | J-735 | J-729 | 55 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1182 | J-734 | J-735 | 225 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1184 | J-729 | J-736 | 225 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|------------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| 502(1) | J-23-1219 | J-23-1217 | 27 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| -1502(2) | J-23-1217 | J-23-1216 | 14 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 22-N-5 | J22-1158 | J22-884 | 106 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1490 | J-23-1205 | J-23-1206 | 56 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 22-N-3 | J22-1159 | J22-886 | 117 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-789 | J-458 | J-426 | 252 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1476 | J-23-1190 | J-23-1191 | 147 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1478 | J-23-1192 | J-23-1193 | 157 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1477 | J-23-1191 | J-23-1192 | 52 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1383 | J-823 | J-814 | 280 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-1382 | J-813 | J-823 | 191 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| 788(1)(| J-1278 | 4-VILLAGE | 78 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 788(1)(| J-456 | J-1278 | 195 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-376 | J-219 | J-218 | 339 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-185 | J-120 | J-124 | 232 | 10 | 140 | -3 | 0.01 | 0 | 0 | Zone 4 |
| P-186 | J-45 | J-124 | 396 | 10 | 140 | 3 | 0.01 | 0 | 0 | Zone 4 |
| P-831 | J-454 | J-472 | 691 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1262 | J-776 | J-767 | 240 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 2 |
| P-747 | J-281 | J-280 | 562 | 6 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1275 | J-780 | J-769 | 294 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1367 | J-817 | J-818 | 216 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1366 | J-816 | J-817 | 278 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-731 | J-426 | J-416 | 255 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| 22-145 | J22-890 | J22-1069 | 66 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1415 | J-842 | J-843 | 118 | 8 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-78 | J-60 | J-61 | 1317 | 8 | 140 | 1 | 0 | 0 | 0 | Zone 4 |
| P-716 | J-416 | J-415 | 202 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1163 | J22-890 | 141 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-444 | J-254 | J-236 | 65 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-407 | J-212 | J-236 | 362 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1410 | J-836 | J-839 | 254 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1411 | J-839 | J-840 | 268 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1255-H | H-10-PH17 | J-773 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1276-H | H-18-PH17 | J-780 | 19 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1442-H | J-845 | H-64-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1443-H | J-857 | H-63-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1279-H | H-16-PH17 | J-781 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-92 | J-71 | J-17 | 238 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1444-H | J-850 | H-62-PH19 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1445-H | J-854 | H-57-PH19 | 32 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-412 | J-240 | J-131 | 563 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-411 | RV-5(PUFFI | J-240 | 64 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1446-H | J-851 | H-61-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-408 | J-236 | RV-5(PUFFI | 68 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1441-H | J-846 | H-65-PH19 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1447-H | J-852 | H-60-PH19 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-399 | J-237 | J-235 | 159 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1437-H | J-839 | H-69-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1273-H | H-17-PH17 | J-779 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1448-H | J-855 | H-58-PH19 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1282-H | H-19-PH17 | J-782 | 37 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1436-H | J-836 | H-68-PH19 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1449-H | J-856 | H-59-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-330 | RV-3CLOSE | J-42 | 277 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| P-326 | J-122 | WELL2 | 172 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1134 | J-706 | FH-801 | 68 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1467 | J22-887 | H-72-PH19 | 34 | 6 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1468 | PH22-FH2 | J-1183 | 30 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1469 | PH22-FH1 | J-1184 | 37 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-445 | J-240 | J-254 | 198 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-10-H | J22-1169 | PH22-FH12 | 46 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-11-H | J22-1173 | PH22-FH20 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1439-H | J-841 | H-67-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-13-H | J22-1172 | PH22-FH15 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-14-H | J22-1174 | PH22-FH18 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1470 | PH22-FH19 | J22-902 | 46 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1270-H | H-15-PH17 | J-778 | 28 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1227-H | H-9-PH19 | J-759 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1043 | J-649 | J-650 | 163 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1267-H | H-14-PH17 | J-777 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1226-H | H-8-PH19 | J-749 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1175-H | J-732 | H-2-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1258-H | H-11-PH17 | J-774 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1176-H | J-729 | H-3-PH18 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-564 | J-329 | J-328 | 414 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1044 | J-642 | J-651 | 144 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-15-H | J22-1175 | PH22-FH16 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-20-H | J22-1161 | PH22-FH6 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-23-H | J22-1164 | PH22-FH8 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-6-H | J22-1158 | PH22-FH3 | 11 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-7-H | J22-1159 | PH22-FH4 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-8-H | J22-1163 | PH22-FH7 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-9-H | J22-1165 | PH22-FH9 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1177-H | J-731 | H-4-PH18 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-571 | J-329 | J-334 | 181 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1264-H | H-13-PH17 | J-776 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-822 | J-478 | J-479 | 81 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-596 | J-350 | RV-3CLOSE | 195 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| -1225-H | H-7-PH19 | J-751 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1224-H | H-6-PH19 | J-753 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-1-H | J22-1168 | PH22-FH11 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1440-H | J-842 | H-66-PH19 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1223-H | H-5-PH19 | J-752 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1261-H | H-12-PH17 | J-775 | 22 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| 22-N-13 | J22-1147 | J22-1170 | 53 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1219-H | H-1-PH19 | J-757 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| P-714 | J-400 | J-414 | 113 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-12-H | J22-1171 | PH22-FH14 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-746 | J-436 | J-262 | 256 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1377-H | J-818 | H-9-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1376-H | J-817 | H-8-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1553(H | J-325 | J-1275 | 193 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1351-H | H-21-PH19 | J-805 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1375-H | J-816 | H-7-PH20 | 38 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1222-H | H-4-PH19 | J-755 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1545 | SDRIVEBPS | J-344 | 112 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1544 | J-1245 | SDRIVEBPS | 110 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1543 | J-1234 | J-36 | 1537 | 6 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1530 | SDRIVEBPS | J-344 | 68 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| P-1529 | J-1245 | SDRIVEBPS | 72 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1513 | J-23-1223 | AV-3 | 54 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1512 | J-23-1217 | AV-2 | 26 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1511 | J-23-1225 | AV-1 | 35 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1508 | J-23-1189 | J-23-1225 | 50 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1221-H | H-3-PH19 | J-756 | 14 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1220-H | H-2-PH19 | J-758 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-16 | J22-1092 | 117CSELEM | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1193-H | J-743 | H-5-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1374-H | J-813 | H-6-PH20 | 33 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1438-H | J-840 | H-70-PH19 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-21 | J22-1166 | PH22-FH10 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-22 | J22-1170 | PH22-FH13 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-24 | J22-1160 | PH22-FH5 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1373-H | J-812 | H-5-PH20 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1372-H | J-811 | H-4-PH20 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1371-H | J-809 | H-3-PH20 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1370-H | J-808 | H-2-PH20 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1369-H | J-807 | H-1-PH20 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-769 | J-138 | J-444 | 98 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|---------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-771 | J-327 | J-445 | 252 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 1285-H | H-20-PH17 | J-783 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.79 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.55 | Zone 3 |
| J-127 | 7.68 | 5,087 | 5,173 | 37.11 | Zone 2 |
| J-33 | 0 | 5,085 | 5,171 | 37.12 | Zone 2 |
| J-79 | 20.49 | 5,083 | 5,171 | 38 | Zone 2 |
| J-87 | 6.15 | 5,083 | 5,171 | 38.17 | Zone 2 |
| J-77 | 6.66 | 5,082 | 5,171 | 38.4 | Zone 2 |
| J-78 | 0 | 5,081 | 5,171 | 38.89 | Zone 2 |
| J-128 | 8.71 | 5,082 | 5,172 | 39.07 | Zone 2 |
| J-75 | 4.1 | 5,081 | 5,171 | 39.12 | Zone 2 |
| J-129 | 0 | 5,081 | 5,171 | 39.16 | Zone 2 |
| J-126 | 8.2 | 5,080 | 5,172 | 39.66 | Zone 2 |
| J-88 | 7.17 | 5,079 | 5,171 | 39.68 | Zone 2 |
| J-65 | 5.63 | 5,080 | 5,171 | 39.7 | Zone 2 |
| J-80 | 0 | 5,079 | 5,171 | 39.73 | Zone 2 |
| J-64 | 5.63 | 5,078 | 5,171 | 39.99 | Zone 2 |
| J-125 | 0.00 | 5,078 | 5,171 | 40.1 | Zone 2 |
| J-83 | 6.15 | 5,077 | 5,171 | 40.36 | Zone 2 |
| J-742 | 0 | 5,189 | 5,283 | 40.37 | Zone 4 |
| J-760 | 0 | 5,189 | 5,283 | 40.42 | Zone 4 |
| J-241 | 0 | 5,189 | 5,283 | 40.47 | Zone 4 |
| H-5-PH18 | 0 | 5,189 | 5,283 | 40.62 | Zone 4 |
| J-130 | 7.68 | 5,077 | 5,171 | 40.75 | Zone 2 |
| J-743 | 4.57 | 5,188 | 5,283 | 40.8 | Zone 4 |
| ESELEMSCH | 2,172.99 | 5,073 | 5,167 | 40.97 | Zone 2 |
| J-82 | 0 | 5,076 | 5,171 | 41.02 | Zone 2 |
| H-9-PH19 | 0 | 5,188 | 5,283 | 41.06 | Zone 4 |
| J-759 | 0 | 5,187 | 5,283 | 41.24 | Zone 4 |
| J-81 | 10.25 | 5,073 | 5,168 | 41.43 | Zone 2 |
| J-133 | 10.25 | 5,075 | 5,171 | 41.48 | Zone 2 |
| J-240 | 0 | 5,076 | 5,172 | 41.64 | Zone 2 |
| J-76 | 2.56 | 5,075 | 5,171 | 41.67 | Zone 2 |
| J-84 | 7.17 | 5,074 | 5,171 | 41.67 | Zone 2 |
| J-89 | 0 | 5,074 | 5,170 | 41.75 | Zone 2 |
| J-747 | 3.74 | 5,186 | 5,283 | 41.81 | Zone 4 |
| H-8-PH19 | 0 | 5,185 | 5,283 | 42.2 | Zone 4 |
| J-124 | 0 | 5,072 | 5,169 | 42.24 | Zone 2 |
| J-132 | 0 | 5,074 | 5,171 | 42.25 | Zone 2 |
| J-91 | 0 | 5,071 | 5,169 | 42.25 | Zone 2 |
| J-98 | 0 | 5,072 | 5,169 | 42.29 | Zone 2 |
| J-90 | 6.15 | 5,072 | 5,170 | 42.32 | Zone 2 |
| J-749 | 0 | 5,185 | 5,283 | 42.38 | Zone 4 |
| J-134 | 0 | 5,072 | 5,170 | 42.38 | Zone 2 |
| J-66 | 7.17 | 5,073 | 5,171 | 42.45 | Zone 2 |
| J-44 | 9.73 | 5,071 | 5,169 | 42.55 | Zone 2 |
| J-355 | 0 | 5,071 | 5,169 | 42.57 | Zone 2 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-93 | 0 | 5,072 | 5,170 | 42.61 | Zone 2 |
| H-7-PH19 | 0 | 5,184 | 5,283 | 42.63 | Zone 4 |
| J-131 | 10.25 | 5,073 | 5,171 | 42.67 | Zone 2 |
| J-85 | 6.66 | 5,072 | 5,170 | 42.78 | Zone 2 |
| J-746 | 0 | 5,184 | 5,283 | 42.78 | Zone 4 |
| J-751 | 3.32 | 5,183 | 5,283 | 43.1 | Zone 4 |
| J-120 | 10.25 | 5,069 | 5,169 | 43.2 | Zone 2 |
| J-99 | 0 | 5,070 | 5,170 | 43.2 | Zone 2 |
| J-45 | 8.2 | 5,069 | 5,169 | 43.25 | Zone 2 |
| J-92 | 7.68 | 5,070 | 5,170 | 43.26 | Zone 2 |
| J-95 | 9.73 | 5,068 | 5,168 | 43.52 | Zone 2 |
| J-115 | 6.66 | 5,068 | 5,169 | 43.77 | Zone 2 |
| J-40 | 9.73 | 5,069 | 5,171 | 44.05 | Zone 2 |
| J-106 | 8.71 | 5,067 | 5,169 | 44.07 | Zone 2 |
| J-121 | 0 | 5,067 | 5,169 | 44.21 | Zone 2 |
| J-96 | 8.2 | 5,067 | 5,169 | 44.27 | Zone 2 |
| J-109 | 5.12 | 5,067 | 5,169 | 44.28 | Zone 2 |
| J-105 | 0 | 5,066 | 5,169 | 44.49 | Zone 2 |
| J-86 | 0 | 5,068 | 5,171 | 44.58 | Zone 2 |
| J-108 | 7.17 | 5,066 | 5,169 | 44.62 | Zone 2 |
| J-119 | 5.12 | 5,066 | 5,169 | 44.71 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,169 | 44.83 | Zone 2 |
| J-118 | 5.63 | 5,066 | 5,169 | 44.85 | Zone 2 |
| J-104 | 6.66 | 5,065 | 5,169 | 44.93 | Zone 2 |
| J-480 | 0 | 5,179 | 5,283 | 44.94 | Zone 4 |
| J-103 | 5.63 | 5,065 | 5,169 | 44.98 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,169 | 45.07 | Zone 2 |
| J-114 | 8.2 | 5,065 | 5,169 | 45.16 | Zone 2 |
| J-123 | 8.2 | 5,065 | 5,169 | 45.21 | Zone 2 |
| J-62 | 5.12 | 5,066 | 5,171 | 45.28 | Zone 2 |
| J-97 | 0 | 5,064 | 5,169 | 45.33 | Zone 2 |
| J-110 | 12.81 | 5,065 | 5,169 | 45.37 | Zone 2 |
| J-67 | 8.2 | 5,066 | 5,171 | 45.38 | Zone 2 |
| J-397 | 4.99 | 5,177 | 5,283 | 45.67 | Zone 4 |
| J-117 | 0 | 5,064 | 5,169 | 45.71 | Zone 2 |
| J-122 | 7.17 | 5,063 | 5,169 | 45.8 | Zone 2 |
| J-396 | 5.82 | 5,177 | 5,283 | 45.88 | Zone 4 |
| J-70 | 3.59 | 5,065 | 5,171 | 45.9 | Zone 2 |
| J-116 | 7.17 | 5,063 | 5,169 | 46 | Zone 2 |
| H-6-PH19 | 0 | 5,176 | 5,283 | 46.02 | Zone 4 |
| J-39 | 8.2 | 5,064 | 5,171 | 46.23 | Zone 2 |
| J-753 | 4.15 | 5,175 | 5,283 | 46.4 | Zone 4 |
| J-111 | 9.22 | 5,063 | 5,170 | 46.42 | Zone 2 |
| J-275 | 7.17 | 5,062 | 5,169 | 46.46 | Zone 2 |
| J-38 | 9.22 | 5,063 | 5,171 | 46.5 | Zone 2 |
| J-PH19IRR2 | 0 | 5,174 | 5,283 | 47.22 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-398 | 4.77 | 5,173 | 5,283 | 47.27 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,283 | 47.29 | Zone 4 |
| J-234 | 2.91 | 5,211 | 5,320 | 47.41 | Zone 3 |
| J-752 | 4.15 | 5,173 | 5,283 | 47.54 | Zone 4 |
| J-100 | 6.66 | 5,060 | 5,170 | 47.97 | Zone 2 |
| J-73 | 0 | 5,060 | 5,171 | 47.98 | Zone 2 |
| J-101 | 0 | 5,059 | 5,170 | 48.05 | Zone 2 |
| J-61 | 9.22 | 5,059 | 5,171 | 48.53 | Zone 2 |
| J-1 | 0 | 5,206 | 5,319 | 49.02 | Zone 1 |
| J-74 | 8.71 | 5,058 | 5,171 | 49.17 | Zone 2 |
| J-112 | 10.76 | 5,057 | 5,170 | 49.25 | Zone 2 |
| J-72 | 11.27 | 5,057 | 5,171 | 49.37 | Zone 2 |
| J-274 | 5.12 | 5,055 | 5,169 | 49.39 | Zone 2 |
| J-60 | 8.2 | 5,057 | 5,171 | 49.43 | Zone 2 |
| J-17 | 0 | 5,057 | 5,171 | 49.49 | Zone 2 |
| J-102 | 10.25 | 5,056 | 5,171 | 49.8 | Zone 2 |
| J-71 | 0 | 5,056 | 5,171 | 49.96 | Zone 2 |
| J-113 | 2.05 | 5,054 | 5,170 | 50.25 | Zone 2 |
| J-2 | 0 | 5,202 | 5,318 | 50.32 | Zone 1 |
| J-59 | 5.12 | 5,057 | 5,173 | 50.49 | Zone 2 |
| J-235 | 0 | 5,204 | 5,321 | 50.53 | Zone 3 |
| J-157 | 0 | 5,054 | 5,171 | 50.6 | Zone 2 |
| J-43 | 5.12 | 5,055 | 5,172 | 50.61 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,283 | 50.78 | Zone 4 |
| J-481 | 0 | 5,165 | 5,283 | 51 | Zone 4 |
| J-755 | 4.15 | 5,165 | 5,283 | 51.02 | Zone 4 |
| J-237 | 3.32 | 5,202 | 5,321 | 51.25 | Zone 3 |
| H-3-PH19 | 0 | 5,164 | 5,283 | 51.55 | Zone 4 |
| J-57 | 7.17 | 5,053 | 5,173 | 51.71 | Zone 2 |
| J-69 | 0 | 5,051 | 5,171 | 51.89 | Zone 2 |
| J-744 | 0 | 5,163 | 5,283 | 51.9 | Zone 4 |
| J-756 | 4.15 | 5,162 | 5,283 | 52.12 | Zone 4 |
| J-68 | 7.17 | 5,050 | 5,171 | 52.28 | Zone 2 |
| J-185 | 0 | 5,199 | 5,320 | 52.37 | Zone 3 |
| J-16 | 0 | 5,050 | 5,171 | 52.45 | Zone 2 |
| J-58 | 0 | 5,051 | 5,173 | 52.89 | Zone 2 |
| J-395 | 4.15 | 5,159 | 5,282 | 53.35 | Zone 4 |
| J-37 | 0 | 5,052 | 5,176 | 53.8 | Zone 2 |
| WELL7 | 0 | 5,200 | 5,324 | 53.93 | Zone 1 |
| J-392 | 5.82 | 5,158 | 5,282 | 54.07 | Zone 4 |
| J-394 | 5.82 | 5,158 | 5,282 | 54.07 | Zone 4 |
| J-63 | 10.67 | 5,047 | 5,172 | 54.14 | Zone 2 |
| J-55 | 6.15 | 5,047 | 5,174 | 54.83 | Zone 2 |
| J-50 | 6.15 | 5,046 | 5,173 | 55.01 | Zone 2 |
| J-53 | 9.22 | 5,049 | 5,177 | 55.11 | Zone 2 |
| J-192 | 2.98 | 5,189 | 5,317 | 55.39 | Zone 1 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-805 | 0 | 5,045 | 5,173 | 55.47 | Zone 4 |
| H-21-PH19 | 0 | 5,045 | 5,173 | 55.65 | Zone 4 |
| J-255 | 0 | 5,045 | 5,174 | 55.69 | Zone 2 |
| J-399 | 0 | 5,154 | 5,282 | 55.74 | Zone 4 |
| J-56 | 9.22 | 5,044 | 5,173 | 55.89 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,282 | 56.11 | Zone 4 |
| J-1246 | 0 | 5,049 | 5,179 | 56.23 | Zone 2 |
| J-15 | 5.97 | 5,045 | 5,174 | 56.25 | Zone 2 |
| J-51 | 4.61 | 5,045 | 5,175 | 56.44 | Zone 2 |
| ALLEYCHUR | 10.24 | 5,043 | 5,174 | 56.44 | Zone 2 |
| J-758 | 4.15 | 5,152 | 5,282 | 56.45 | Zone 4 |
| J-42 | 2.98 | 5,043 | 5,174 | 56.48 | Zone 2 |
| J-194 | 7.68 | 5,043 | 5,174 | 56.63 | Zone 2 |
| J-54 | 0 | 5,045 | 5,176 | 56.77 | Zone 2 |
| WELL6 | 0 | 5,191 | 5,322 | 56.92 | Zone 1 |
| J-PH19IRR1 | 0 | 5,151 | 5,282 | 57.13 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,282 | 57.14 | Zone 4 |
| J-797 | 9.22 | 5,047 | 5,178 | 57.18 | Zone 2 |
| J-193 | 5.13 | 5,175 | 5,308 | 57.43 | Zone 1 |
| J-757 | 4.15 | 5,150 | 5,282 | 57.46 | Zone 4 |
| J-52 | 3.59 | 5,043 | 5,176 | 57.55 | Zone 2 |
| ANDYKEWE | 0 | 5,046 | 5,179 | 57.63 | Zone 2 |
| J-3 | 0 | 5,179 | 5,313 | 57.7 | Zone 1 |
| J-1245 | 0 | 5,050 | 5,184 | 57.89 | Zone 2 |
| 49RENOTRU | 2.98 | 5,042 | 5,176 | 57.93 | Zone 2 |
| J-140 | 10.8 | 5,185 | 5,319 | 58.15 | Zone 3 |
| J-393 | 4.99 | 5,147 | 5,282 | 58.85 | Zone 4 |
| J-391 | 4.15 | 5,146 | 5,282 | 59.05 | Zone 4 |
| J-142 | 5.4 | 5,182 | 5,318 | 59.09 | Zone 3 |
| FH-925 | 0 | 5,144 | 5,282 | 60.14 | Zone 4 |
| J-23-1188 | 1.25 | 5,143 | 5,282 | 60.47 | Zone 4 |
| J-1262 | 2.98 | 5,172 | 5,312 | 60.53 | Zone 1 |
| J-482 | 0 | 5,142 | 5,282 | 60.74 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,282 | 60.77 | Zone 4 |
| J-23-1191 | 0 | 5,142 | 5,282 | 60.82 | Zone 4 |
| J-23-1193 | 2.91 | 5,142 | 5,282 | 60.86 | Zone 4 |
| J-23-1190 | 0.83 | 5,142 | 5,282 | 60.86 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,282 | 60.88 | Zone 4 |
| J-23-1189 | 1.25 | 5,142 | 5,282 | 60.88 | Zone 4 |
| J-23-1187 | 0.83 | 5,142 | 5,282 | 60.93 | Zone 4 |
| J-830 | 0 | 5,141 | 5,282 | 61.09 | Zone 4 |
| J-679 | 7.06 | 5,140 | 5,282 | 61.55 | Zone 4 |
| J-652 | 6.42 | 5,148 | 5,290 | 61.56 | Zone 1 |
| J-1184 | 0 | 5,140 | 5,282 | 61.7 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,282 | 61.76 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,282 | 61.8 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-685 | 0 | 5,139 | 5,282 | 61.97 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,282 | 62.04 | Zone 4 |
| J-390 | 0 | 5,139 | 5,282 | 62.06 | Zone 4 |
| J-836 | 3.74 | 5,139 | 5,282 | 62.09 | Zone 4 |
| J-819 | 0 | 5,139 | 5,282 | 62.12 | Zone 4 |
| J-829 | 0 | 5,139 | 5,282 | 62.28 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,282 | 62.31 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,282 | 62.42 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,282 | 62.47 | Zone 4 |
| J-841 | 0 | 5,138 | 5,282 | 62.56 | Zone 4 |
| J-820 | 0 | 5,137 | 5,282 | 63.18 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,282 | 63.22 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,282 | 63.24 | Zone 4 |
| J-187 | 0 | 5,173 | 5,319 | 63.45 | Zone 3 |
| J-815 | 4.77 | 5,136 | 5,282 | 63.49 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,282 | 63.55 | Zone 4 |
| J-4 | 8.12 | 5,163 | 5,310 | 63.89 | Zone 1 |
| J-678 | 0 | 5,135 | 5,282 | 63.9 | Zone 4 |
| J-352 | 5.4 | 5,134 | 5,282 | 64.18 | Zone 4 |
| J-145 | 4.99 | 5,170 | 5,318 | 64.28 | Zone 3 |
| FH-922 | 0 | 5,134 | 5,282 | 64.54 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,282 | 64.72 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,282 | 64.86 | Zone 4 |
| J-810 | 0 | 5,133 | 5,282 | 64.97 | Zone 4 |
| J-141 | 4.57 | 5,169 | 5,319 | 65 | Zone 3 |
| J-816 | 4.99 | 5,132 | 5,282 | 65.13 | Zone 4 |
| J-730 | 0 | 5,131 | 5,282 | 65.5 | Zone 4 |
| J-806 | 0 | 5,131 | 5,282 | 65.58 | Zone 4 |
| J-732 | 0 | 5,131 | 5,282 | 65.64 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,282 | 65.64 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,282 | 65.74 | Zone 4 |
| J-448 | 7.06 | 5,134 | 5,287 | 65.89 | Zone 1 |
| J-677 | 8.31 | 5,130 | 5,282 | 65.91 | Zone 4 |
| J-688 | 4.77 | 5,130 | 5,282 | 66.08 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,282 | 66.09 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,282 | 66.13 | Zone 4 |
| J-23-1195 | 1.25 | 5,130 | 5,282 | 66.15 | Zone 4 |
| J-23-1196 | 1.66 | 5,130 | 5,282 | 66.15 | Zone 4 |
| J-811 | 5.4 | 5,130 | 5,282 | 66.17 | Zone 4 |
| J-23-1194 | 2.08 | 5,130 | 5,282 | 66.26 | Zone 4 |
| J-687 | 0 | 5,129 | 5,282 | 66.41 | Zone 4 |
| J-807 | 4.57 | 5,129 | 5,282 | 66.47 | Zone 4 |
| J-23-1197 | 1.25 | 5,129 | 5,282 | 66.59 | Zone 4 |
| J-675 | 0 | 5,129 | 5,282 | 66.63 | Zone 4 |
| J-839 | 0 | 5,128 | 5,282 | 67.05 | Zone 4 |
| J-483 | 0 | 5,128 | 5,282 | 67.06 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-69-PH19 | 0 | 5,127 | 5,282 | 67.2 | Zone 4 |
| J-676 | 0 | 5,127 | 5,282 | 67.21 | Zone 4 |
| FH-930 | 0 | 5,127 | 5,282 | 67.37 | Zone 4 |
| J-443 | 4.15 | 5,127 | 5,282 | 67.4 | Zone 4 |
| J-576 | 4.99 | 5,126 | 5,282 | 67.62 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,282 | 67.81 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,282 | 67.85 | Zone 4 |
| J-842 | 3.74 | 5,126 | 5,282 | 67.96 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,282 | 68.04 | Zone 4 |
| H-66-PH19 | 0 | 5,125 | 5,282 | 68.14 | Zone 4 |
| J-143 | 3.74 | 5,161 | 5,318 | 68.21 | Zone 3 |
| J-844 | 2.08 | 5,125 | 5,282 | 68.3 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,282 | 68.44 | Zone 4 |
| J-736 | 5.82 | 5,124 | 5,282 | 68.56 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,282 | 68.84 | Zone 4 |
| J-817 | 0 | 5,122 | 5,282 | 69.46 | Zone 4 |
| J-846 | 0 | 5,122 | 5,282 | 69.6 | Zone 4 |
| J-690 | 0 | 5,122 | 5,282 | 69.62 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,282 | 69.7 | Zone 4 |
| J-674 | 0 | 5,121 | 5,282 | 69.78 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,282 | 69.94 | Zone 4 |
| J-808 | 0 | 5,121 | 5,282 | 70.03 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,282 | 70.04 | Zone 4 |
| J-843 | 0 | 5,121 | 5,282 | 70.05 | Zone 4 |
| J-812 | 0 | 5,121 | 5,282 | 70.06 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,282 | 70.06 | Zone 4 |
| J-389 | 1.66 | 5,120 | 5,282 | 70.2 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,282 | 70.25 | Zone 4 |
| J-23-1201 | 1.66 | 5,119 | 5,282 | 70.74 | Zone 4 |
| J-348 | 4.15 | 5,119 | 5,282 | 70.77 | Zone 4 |
| J-23-1202 | 2.08 | 5,119 | 5,282 | 70.86 | Zone 4 |
| J-189 | 0 | 5,145 | 5,310 | 71.17 | Zone 1 |
| J-813 | 4.99 | 5,118 | 5,282 | 71.25 | Zone 4 |
| J-184 | 4.77 | 5,118 | 5,282 | 71.25 | Zone 4 |
| J-818 | 4.57 | 5,118 | 5,282 | 71.28 | Zone 4 |
| J-680 | 5.4 | 5,118 | 5,282 | 71.3 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,282 | 71.46 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,282 | 71.49 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,282 | 71.53 | Zone 4 |
| J-823 | 0 | 5,117 | 5,282 | 71.55 | Zone 4 |
| J-809 | 4.57 | 5,117 | 5,282 | 71.55 | Zone 4 |
| J-729 | 0 | 5,117 | 5,282 | 71.72 | Zone 4 |
| J-139 | 0 | 5,153 | 5,319 | 71.91 | Zone 3 |
| J-190 | 0 | 5,143 | 5,309 | 71.96 | Zone 1 |
| J-346 | 0 | 5,116 | 5,282 | 72.06 | Zone 4 |
| J-735 | 0 | 5,116 | 5,282 | 72.12 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-851 | 3.32 | 5,116 | 5,282 | 72.18 | Zone 4 |
| H-61-PH19 | 0 | 5,116 | 5,282 | 72.18 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,282 | 72.2 | Zone 4 |
| J-646 | 10.27 | 5,123 | 5,290 | 72.28 | Zone 1 |
| PH22-FH2 | 0 | 5,115 | 5,282 | 72.35 | Zone 4 |
| J-770 | 0 | 5,115 | 5,282 | 72.35 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,282 | 72.4 | Zone 4 |
| J-833 | 0 | 5,115 | 5,282 | 72.44 | Zone 4 |
| H-64-PH19 | 0 | 5,115 | 5,282 | 72.46 | Zone 4 |
| J-840 | 4.15 | 5,115 | 5,282 | 72.61 | Zone 4 |
| ERTOWNCA | 2.98 | 5,124 | 5,292 | 72.66 | Zone 1 |
| J-845 | 4.15 | 5,115 | 5,282 | 72.68 | Zone 4 |
| H-70-PH19 | 0 | 5,115 | 5,282 | 72.75 | Zone 4 |
| J22-886 | 1.25 | 5,114 | 5,282 | 72.92 | Zone 4 |
| J-814 | 0 | 5,114 | 5,282 | 72.93 | Zone 4 |
| J-447 | 5.13 | 5,118 | 5,287 | 72.94 | Zone 1 |
| H-58-PH19 | 0 | 5,114 | 5,282 | 73 | Zone 4 |
| J-855 | 3.74 | 5,114 | 5,282 | 73.04 | Zone 4 |
| J-653 | 6.42 | 5,121 | 5,290 | 73.05 | Zone 1 |
| J-442 | 4.57 | 5,114 | 5,282 | 73.05 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,282 | 73.09 | Zone 4 |
| J22-884 | 1.25 | 5,114 | 5,282 | 73.15 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,282 | 73.18 | Zone 4 |
| J-832 | 0 | 5,113 | 5,282 | 73.21 | Zone 4 |
| J-689 | 3.74 | 5,113 | 5,282 | 73.22 | Zone 4 |
| J22-1079 | 2.78 | 5,113 | 5,282 | 73.24 | Zone 4 |
| J22-1159 | 1.25 | 5,113 | 5,282 | 73.25 | Zone 4 |
| J-852 | 3.32 | 5,113 | 5,282 | 73.27 | Zone 4 |
| J22-1158 | 1.25 | 5,113 | 5,282 | 73.28 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,282 | 73.3 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,282 | 73.33 | Zone 4 |
| J-856 | 3.74 | 5,113 | 5,282 | 73.34 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,282 | 73.37 | Zone 4 |
| J-650 | 0 | 5,113 | 5,282 | 73.44 | Zone 4 |
| MIDDLESCH | 4.77 | 5,112 | 5,282 | 73.81 | Zone 4 |
| J-441 | 4.57 | 5,112 | 5,282 | 73.81 | Zone 4 |
| J-645 | 0 | 5,119 | 5,290 | 73.82 | Zone 1 |
| J-783 | 2.91 | 5,112 | 5,282 | 73.86 | Zone 4 |
| J-434 | 3.32 | 5,112 | 5,282 | 73.86 | Zone 4 |
| J-570 | 0 | 5,112 | 5,282 | 73.86 | Zone 4 |
| H-20-PH17 | 0 | 5,112 | 5,282 | 73.94 | Zone 4 |
| J-854 | 3.74 | 5,112 | 5,282 | 73.98 | Zone 4 |
| H-57-PH19 | 0 | 5,112 | 5,282 | 74.07 | Zone 4 |
| J-433 | 1.66 | 5,111 | 5,282 | 74.27 | Zone 4 |
| J-734 | 0 | 5,111 | 5,282 | 74.3 | Zone 4 |
| J-195 | 0 | 5,111 | 5,282 | 74.33 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-848 | 0 | 5,111 | 5,282 | 74.43 | Zone 4 |
| FH-919 | 4.99 | 5,111 | 5,282 | 74.46 | Zone 4 |
| J-681 | 0 | 5,110 | 5,282 | 74.56 | Zone 4 |
| H-72-PH19 | 0 | 5,110 | 5,282 | 74.67 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,282 | 74.79 | Zone 4 |
| J22-1082 | 4.77 | 5,110 | 5,282 | 74.88 | Zone 4 |
| J-328 | 0 | 5,114 | 5,287 | 74.93 | Zone 1 |
| J22-1083 | 0 | 5,109 | 5,282 | 74.97 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,282 | 74.98 | Zone 4 |
| J-144 | 0 | 5,145 | 5,318 | 75.01 | Zone 3 |
| J-649 | 0 | 5,109 | 5,282 | 75.08 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,282 | 75.1 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,282 | 75.24 | Zone 4 |
| J22-1161 | 1.25 | 5,109 | 5,282 | 75.3 | Zone 4 |
| J-835 | 0 | 5,109 | 5,282 | 75.31 | Zone 4 |
| J-306 | 5.13 | 5,134 | 5,307 | 75.34 | Zone 1 |
| J-834 | 0 | 5,109 | 5,282 | 75.35 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,282 | 75.36 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,282 | 75.38 | Zone 4 |
| H-62-PH19 | 0 | 5,108 | 5,282 | 75.44 | Zone 4 |
| J-571 | 0 | 5,108 | 5,282 | 75.56 | Zone 4 |
| J22-1163 | 1.25 | 5,108 | 5,282 | 75.58 | Zone 4 |
| J-731 | 0 | 5,108 | 5,282 | 75.58 | Zone 4 |
| J-5 | 5.13 | 5,133 | 5,308 | 75.64 | Zone 1 |
| J-286 | 13.08 | 5,108 | 5,282 | 75.65 | Zone 4 |
| J-644 | 10.91 | 5,115 | 5,290 | 75.71 | Zone 1 |
| PH22-FH7 | 0 | 5,108 | 5,282 | 75.72 | Zone 4 |
| J-847 | 0 | 5,107 | 5,282 | 75.96 | Zone 4 |
| J-642 | 0 | 5,107 | 5,282 | 76.03 | Zone 4 |
| J22-890 | 0.83 | 5,107 | 5,282 | 76.11 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,282 | 76.2 | Zone 4 |
| J-343 | 5.77 | 5,109 | 5,285 | 76.21 | Zone 1 |
| J-284 | 6.65 | 5,106 | 5,282 | 76.27 | Zone 4 |
| J-159 | 7.06 | 5,108 | 5,284 | 76.28 | Zone 1 |
| J-667 | 0 | 5,106 | 5,282 | 76.46 | Zone 4 |
| J-850 | 3.32 | 5,106 | 5,282 | 76.63 | Zone 4 |
| J-765 | 0 | 5,106 | 5,282 | 76.64 | Zone 4 |
| H-63-PH19 | 0 | 5,105 | 5,282 | 76.69 | Zone 4 |
| J-857 | 0 | 5,105 | 5,282 | 76.77 | Zone 4 |
| J-858 | 3.32 | 5,105 | 5,282 | 77.09 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,282 | 77.18 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,282 | 77.25 | Zone 4 |
| J-23-1206 | 1.25 | 5,104 | 5,282 | 77.44 | Zone 4 |
| J-769 | 0 | 5,104 | 5,282 | 77.48 | Zone 4 |
| J-203 | 4.15 | 5,103 | 5,282 | 77.61 | Zone 4 |
| J-853 | 0 | 5,103 | 5,282 | 77.63 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-19-PH17 | 0 | 5,103 | 5,282 | 77.67 | Zone 4 |
| J-764 | 4.77 | 5,103 | 5,282 | 77.67 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,282 | 77.71 | Zone 4 |
| J-23-1205 | 1.25 | 5,103 | 5,282 | 77.76 | Zone 4 |
| J-733 | 5.82 | 5,103 | 5,282 | 77.78 | Zone 4 |
| J-283 | 4.57 | 5,103 | 5,282 | 77.83 | Zone 4 |
| J-651 | 0 | 5,103 | 5,282 | 77.84 | Zone 4 |
| J-782 | 2.91 | 5,103 | 5,282 | 77.91 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,282 | 77.95 | Zone 4 |
| J22-1165 | 1.66 | 5,102 | 5,282 | 78.04 | Zone 4 |
| J-799 | 0 | 5,102 | 5,282 | 78.06 | Zone 4 |
| J22-1164 | 1.25 | 5,102 | 5,282 | 78.08 | Zone 4 |
| J22-1084 | 0 | 5,102 | 5,282 | 78.13 | Zone 4 |
| J-666 | 5.4 | 5,102 | 5,282 | 78.15 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,282 | 78.19 | Zone 4 |
| J-334 | 0 | 5,106 | 5,287 | 78.2 | Zone 1 |
| J-23-1203 | 2.08 | 5,102 | 5,282 | 78.28 | Zone 4 |
| J22-892 | 0.83 | 5,102 | 5,282 | 78.34 | Zone 4 |
| J-1071 | 0 | 5,101 | 5,282 | 78.42 | Zone 4 |
| J-160 | 5.77 | 5,103 | 5,285 | 78.51 | Zone 1 |
| J-768 | 0 | 5,101 | 5,282 | 78.59 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,282 | 78.61 | Zone 4 |
| J-432 | 1.66 | 5,101 | 5,282 | 78.71 | Zone 4 |
| J-683 | 5.4 | 5,101 | 5,282 | 78.75 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,282 | 78.78 | Zone 4 |
| J-387 | 0 | 5,126 | 5,308 | 78.86 | Zone 1 |
| J22-1166 | 0 | 5,100 | 5,282 | 78.89 | Zone 4 |
| PH22-FH10 | 0 | 5,100 | 5,282 | 78.92 | Zone 4 |
| J-444 | 0 | 5,137 | 5,319 | 78.94 | Zone 3 |
| J-204 | 4.15 | 5,100 | 5,282 | 78.98 | Zone 4 |
| H-18-PH17 | 0 | 5,100 | 5,282 | 78.99 | Zone 4 |
| J-333 | 6.42 | 5,104 | 5,287 | 79.02 | Zone 1 |
| H-16-PH17 | 0 | 5,100 | 5,282 | 79.19 | Zone 4 |
| J-196 | 0 | 5,099 | 5,282 | 79.24 | Zone 4 |
| J-780 | 4.99 | 5,099 | 5,282 | 79.28 | Zone 4 |
| J-763 | 0 | 5,099 | 5,282 | 79.29 | Zone 4 |
| J22-1168 | 1.66 | 5,099 | 5,282 | 79.38 | Zone 4 |
| H-17-PH17 | 0 | 5,099 | 5,282 | 79.38 | Zone 4 |
| J-329 | 5.13 | 5,103 | 5,287 | 79.39 | Zone 1 |
| PH22-FH11 | 0 | 5,099 | 5,282 | 79.42 | Zone 4 |
| J22-1170 | 1.66 | 5,099 | 5,282 | 79.56 | Zone 4 |
| PH22-FH13 | 0 | 5,099 | 5,282 | 79.56 | Zone 4 |
| J-248 | 5.82 | 5,135 | 5,319 | 79.57 | Zone 3 |
| J-781 | 4.15 | 5,099 | 5,282 | 79.58 | Zone 4 |
| J-23-1204 | 2.08 | 5,099 | 5,282 | 79.61 | Zone 4 |
| J-281 | 3.32 | 5,099 | 5,282 | 79.61 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| BLDG3-CCCC | 2.78 | 5,099 | 5,282 | 79.63 | Zone 4 |
| J22-1147 | 0 | 5,099 | 5,282 | 79.66 | Zone 4 |
| J22-1086 | 0 | 5,099 | 5,282 | 79.69 | Zone 4 |
| J22-1171 | 1.66 | 5,099 | 5,282 | 79.71 | Zone 4 |
| J-715 | 0 | 5,099 | 5,282 | 79.71 | Zone 4 |
| J-728 | 0 | 5,098 | 5,282 | 79.76 | Zone 4 |
| J-779 | 0 | 5,098 | 5,282 | 79.79 | Zone 4 |
| J-138 | 0 | 5,135 | 5,319 | 79.81 | Zone 3 |
| PH22-FH14 | 0 | 5,098 | 5,282 | 79.81 | Zone 4 |
| J-704 | 4.77 | 5,098 | 5,282 | 79.93 | Zone 4 |
| J22-896 | 0 | 5,098 | 5,282 | 79.96 | Zone 4 |
| J-665 | 0 | 5,098 | 5,282 | 79.99 | Zone 4 |
| J22-1169 | 2.08 | 5,097 | 5,282 | 80.18 | Zone 4 |
| H-15-PH17 | 0 | 5,097 | 5,282 | 80.2 | Zone 4 |
| PH22-FH12 | 0 | 5,097 | 5,282 | 80.23 | Zone 4 |
| J-639 | 0 | 5,097 | 5,282 | 80.26 | Zone 4 |
| PH22-FH15 | 0 | 5,097 | 5,282 | 80.27 | Zone 4 |
| J22-1172 | 3.74 | 5,097 | 5,282 | 80.27 | Zone 4 |
| J-484 | 4.57 | 5,097 | 5,282 | 80.3 | Zone 4 |
| J-705 | 0 | 5,097 | 5,282 | 80.32 | Zone 4 |
| J-767 | 4.77 | 5,097 | 5,282 | 80.33 | Zone 4 |
| J-778 | 6.23 | 5,097 | 5,282 | 80.42 | Zone 4 |
| J-205 | 4.15 | 5,096.27 | 5,282.05 | 80.5 | Zone 4 |
| J-671 | 4.77 | 5,096.69 | 5,282.47 | 80.5 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,282.49 | 80.51 | Zone 4 |
| J-648 | 3.21 | 5,103.71 | 5,289.63 | 80.56 | Zone 1 |
| J22-898 | 0 | 5,096.50 | 5,282.47 | 80.58 | Zone 4 |
| J-714 | 0 | 5,096.31 | 5,282.47 | 80.66 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,290.84 | 80.69 | Zone 1 |
| H-13-PH17 | 0 | 5,096.07 | 5,282.47 | 80.77 | Zone 4 |
| J-485 | 9.75 | 5,095.99 | 5,282.49 | 80.81 | Zone 4 |
| J-23-1207 | 2.08 | 5,095.92 | 5,282.50 | 80.84 | Zone 4 |
| J-191 | 8.12 | 5,121.58 | 5,308.17 | 80.85 | Zone 1 |
| J-325 | 7.26 | 5,095.74 | 5,282.37 | 80.87 | Zone 4 |
| J-25 | 0 | 5,104.44 | 5,291.10 | 80.88 | Zone 1 |
| J-27 | 0 | 5,101.81 | 5,288.48 | 80.88 | Zone 1 |
| H-11-PH17 | 0 | 5,095.76 | 5,282.47 | 80.9 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,282.47 | 80.91 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,282.47 | 80.91 | Zone 4 |
| J-603 | 6.42 | 5,102.70 | 5,289.57 | 80.97 | Zone 1 |
| J-669 | 0 | 5,095.57 | 5,282.48 | 80.99 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,282.37 | 81.03 | Zone 4 |
| J-776 | 4.15 | 5,095.41 | 5,282.47 | 81.05 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,307.46 | 81.06 | Zone 1 |
| H-14-PH17 | 0 | 5,095.35 | 5,282.47 | 81.08 | Zone 4 |
| J22-874 | 0.83 | 5,095.38 | 5,282.50 | 81.08 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-486 | 0 | 5,095.25 | 5,282.49 | 81.13 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,282.48 | 81.13 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.50 | 81.13 | Zone 4 |
| J-446 | 5.13 | 5,099.26 | 5,286.52 | 81.14 | Zone 1 |
| PH22-FH20 | 0 | 5,095.18 | 5,282.50 | 81.17 | Zone 4 |
| J-206 | 4.15 | 5,094.63 | 5,282.02 | 81.2 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.47 | 81.23 | Zone 4 |
| J-431 | 2.08 | 5,094.71 | 5,282.20 | 81.24 | Zone 4 |
| J22-1087 | 7.55 | 5,094.99 | 5,282.51 | 81.25 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,282.09 | 81.31 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,282.47 | 81.35 | Zone 4 |
| J-340 | 3.85 | 5,096.75 | 5,284.54 | 81.37 | Zone 1 |
| J-771 | 7.89 | 5,094.49 | 5,282.47 | 81.45 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.47 | 81.48 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,282.20 | 81.49 | Zone 4 |
| J-23-1228 | 3.32 | 5,094.40 | 5,282.49 | 81.5 | Zone 4 |
| J-660 | 3.32 | 5,094.39 | 5,282.48 | 81.5 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.49 | 81.54 | Zone 4 |
| H-12-PH17 | 0 | 5,094.20 | 5,282.47 | 81.58 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,282.49 | 81.7 | Zone 4 |
| J-332 | 0 | 5,097.85 | 5,286.52 | 81.75 | Zone 1 |
| J-647 | 6.42 | 5,100.91 | 5,289.63 | 81.77 | Zone 1 |
| J-761 | 0 | 5,093.67 | 5,282.47 | 81.81 | Zone 4 |
| H-10-PH17 | 0 | 5,093.60 | 5,282.47 | 81.84 | Zone 4 |
| J-657 | 4.15 | 5,093.38 | 5,282.49 | 81.94 | Zone 4 |
| J-775 | 4.15 | 5,093.32 | 5,282.47 | 81.96 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,282.49 | 81.99 | Zone 4 |
| J-23-1212 | 1.66 | 5,093.24 | 5,282.55 | 82.03 | Zone 4 |
| J-662 | 4.15 | 5,092.99 | 5,282.49 | 82.11 | Zone 4 |
| J-207 | 4.15 | 5,092.46 | 5,282.00 | 82.13 | Zone 4 |
| J22-1088 | 2.78 | 5,092.98 | 5,282.55 | 82.14 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,282.47 | 82.18 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.55 | 82.18 | Zone 4 |
| J22-880 | 1.25 | 5,092.85 | 5,282.55 | 82.2 | Zone 4 |
| PH22-FH18 | 0 | 5,092.73 | 5,282.55 | 82.25 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.48 | 82.29 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,282.05 | 82.31 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.49 | 82.33 | Zone 4 |
| 22-IRR-117 | 0 | 5,092.39 | 5,282.55 | 82.4 | Zone 4 |
| J-330 | 4.49 | 5,096.35 | 5,286.52 | 82.4 | Zone 1 |
| J-658 | 6.23 | 5,092.30 | 5,282.49 | 82.41 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,282.02 | 82.43 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.48 | 82.5 | Zone 4 |
| 4-VILLAGE | 4.77 | 5,092.08 | 5,282.49 | 82.51 | Zone 4 |
| J-23-1208 | 2.91 | 5,092.02 | 5,282.48 | 82.53 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,282.48 | 82.58 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| AV-3 | 0 | 5,091.86 | 5,282.48 | 82.6 | Zone 4 |
| J-655 | 4.15 | 5,091.87 | 5,282.51 | 82.6 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,282.90 | 82.61 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,282.49 | 82.66 | Zone 4 |
| J-198 | 5.4 | 5,091.35 | 5,282.15 | 82.67 | Zone 4 |
| J-466 | 6.23 | 5,091.59 | 5,282.49 | 82.72 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,282.49 | 82.76 | Zone 4 |
| J-23-1216 | 1.25 | 5,091.71 | 5,282.75 | 82.78 | Zone 4 |
| J-454 | 4.99 | 5,091.37 | 5,282.50 | 82.82 | Zone 4 |
| J-664 | 3.74 | 5,091.23 | 5,282.51 | 82.88 | Zone 4 |
| J-166 | 5.13 | 5,093.26 | 5,284.54 | 82.88 | Zone 1 |
| J-659 | 0 | 5,091.19 | 5,282.49 | 82.89 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,282.75 | 82.91 | Zone 4 |
| J-445 | 0 | 5,095.13 | 5,286.52 | 82.93 | Zone 1 |
| J-1278 | 0 | 5,091.08 | 5,282.49 | 82.94 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,282.75 | 82.96 | Zone 4 |
| J-23-1215 | 0.83 | 5,091.25 | 5,282.72 | 82.97 | Zone 4 |
| J-595 | 2.57 | 5,099.13 | 5,290.66 | 82.99 | Zone 1 |
| J-23-1219 | 0.83 | 5,091.11 | 5,282.75 | 83.04 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,282.49 | 83.06 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,307.29 | 83.07 | Zone 1 |
| J-23-1222 | 0 | 5,090.93 | 5,282.84 | 83.16 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.49 | 83.2 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,282.78 | 83.21 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,282.81 | 83.24 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.60 | 83.27 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.59 | 83.33 | Zone 4 |
| J-453 | 7.06 | 5,090.15 | 5,282.51 | 83.35 | Zone 4 |
| J-23-1213 | 2.49 | 5,090.32 | 5,282.69 | 83.35 | Zone 4 |
| J-23-1214 | 0.42 | 5,090.30 | 5,282.71 | 83.37 | Zone 4 |
| J22-882 | 1.66 | 5,090.19 | 5,282.60 | 83.37 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.51 | 83.4 | Zone 4 |
| PH22-FH16 | 0 | 5,090.10 | 5,282.60 | 83.41 | Zone 4 |
| J-661 | 3.74 | 5,089.72 | 5,282.49 | 83.53 | Zone 4 |
| J-199 | 5.82 | 5,089.28 | 5,282.09 | 83.54 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.51 | 83.72 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.51 | 83.84 | Zone 4 |
| J-606 | 8.98 | 5,096.31 | 5,289.85 | 83.86 | Zone 1 |
| J-452 | 0 | 5,088.84 | 5,282.52 | 83.93 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,282.51 | 83.97 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.52 | 83.99 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.57 | 84.2 | Zone 4 |
| J-592 | 8.34 | 5,095.57 | 5,290.12 | 84.3 | Zone 1 |
| J-336 | 5.13 | 5,090.75 | 5,285.32 | 84.31 | Zone 1 |
| J-200 | 5.82 | 5,087.30 | 5,282.05 | 84.38 | Zone 4 |
| J-324 | 2.08 | 5,087.57 | 5,282.40 | 84.42 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-449 | 0 | 5,087.47 | 5,282.54 | 84.53 | Zone 4 |
| ELEMSCHO | 9.54 | 5,087.43 | 5,282.59 | 84.56 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,282.59 | 84.61 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,282.59 | 84.63 | Zone 4 |
| J-440 | 2.49 | 5,086.88 | 5,282.23 | 84.65 | Zone 4 |
| H17CSELEM | 0 | 5,087.23 | 5,282.59 | 84.65 | Zone 4 |
| J-438 | 5.4 | 5,086.25 | 5,282.23 | 84.92 | Zone 4 |
| J-478 | 3.32 | 5,086.54 | 5,282.57 | 84.94 | Zone 4 |
| J-474 | 3.32 | 5,086.26 | 5,282.56 | 85.06 | Zone 4 |
| J-201 | 5.82 | 5,085.59 | 5,282.02 | 85.11 | Zone 4 |
| J-460 | 5.4 | 5,086.01 | 5,282.59 | 85.18 | Zone 4 |
| J-407 | 2.08 | 5,085.64 | 5,282.59 | 85.34 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.59 | 85.43 | Zone 4 |
| J-327 | 7.06 | 5,089.27 | 5,286.52 | 85.47 | Zone 1 |
| J-437 | 0 | 5,084.87 | 5,282.21 | 85.51 | Zone 4 |
| J-202 | 4.99 | 5,084.62 | 5,282.00 | 85.53 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,282.59 | 85.54 | Zone 4 |
| J22-902 | 4.77 | 5,085.12 | 5,282.59 | 85.56 | Zone 4 |
| J-249 | 4.57 | 5,120.99 | 5,318.56 | 85.61 | Zone 3 |
| J-475 | 3.74 | 5,084.82 | 5,282.58 | 85.69 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,285.32 | 85.7 | Zone 1 |
| J-408 | 4.99 | 5,084.71 | 5,282.59 | 85.74 | Zone 4 |
| J-280 | 3.32 | 5,084.28 | 5,282.37 | 85.83 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,282.59 | 85.95 | Zone 4 |
| J-285 | 4.99 | 5,083.77 | 5,282.21 | 85.98 | Zone 4 |
| PH22-FH19 | 0 | 5,084.13 | 5,282.59 | 85.99 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,318.55 | 86.13 | Zone 3 |
| J-476 | 3.32 | 5,083.43 | 5,282.59 | 86.29 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.59 | 86.3 | Zone 4 |
| J-339 | 4.49 | 5,085.67 | 5,284.94 | 86.34 | Zone 1 |
| J-409 | 2.49 | 5,083.24 | 5,282.60 | 86.38 | Zone 4 |
| J-323 | 7.68 | 5,083.06 | 5,282.42 | 86.38 | Zone 4 |
| J-282 | 4.57 | 5,082.97 | 5,282.37 | 86.4 | Zone 4 |
| J-208 | 4.15 | 5,082.50 | 5,282.15 | 86.51 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,282.20 | 86.51 | Zone 4 |
| J-471 | 6.23 | 5,082.54 | 5,282.50 | 86.64 | Zone 4 |
| J-273 | 2.91 | 5,082.46 | 5,282.49 | 86.67 | Zone 4 |
| J-461 | 6.23 | 5,082.44 | 5,282.59 | 86.72 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,282.20 | 86.75 | Zone 4 |
| J-473 | 4.99 | 5,082.14 | 5,282.49 | 86.81 | Zone 4 |
| J-477 | 3.32 | 5,082.15 | 5,282.59 | 86.85 | Zone 4 |
| J-459 | 3.74 | 5,081.68 | 5,282.59 | 87.05 | Zone 4 |
| J-215 | 8.92 | 5,081.17 | 5,282.09 | 87.06 | Zone 4 |
| J-410 | 2.91 | 5,081.37 | 5,282.60 | 87.2 | Zone 4 |
| J-424 | 2.78 | 5,081.15 | 5,282.59 | 87.29 | Zone 4 |
| J-405 | 3.32 | 5,081.06 | 5,282.60 | 87.32 | Zone 4 |

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|-------|--------------|----------------|-----------|----------------|--------|
| J-271 | 4.57 | 5,080.96 | 5,282.49 | 87.32 | Zone 4 |
| J-586 | 9.54 | 5,080.67 | 5,282.20 | 87.33 | Zone 4 |
| J-590 | 5.77 | 5,088.31 | 5,289.99 | 87.39 | Zone 1 |
| J-320 | 4.77 | 5,080.78 | 5,282.49 | 87.4 | Zone 4 |
| J-214 | 4.15 | 5,080.16 | 5,282.05 | 87.48 | Zone 4 |
| J-462 | 7.48 | 5,080.60 | 5,282.60 | 87.52 | Zone 4 |
| J-272 | 2.91 | 5,080.44 | 5,282.49 | 87.55 | Zone 4 |
| J-417 | 4.99 | 5,080.47 | 5,282.60 | 87.58 | Zone 4 |
| J-161 | 5.77 | 5,082.45 | 5,284.59 | 87.59 | Zone 1 |
| J-321 | 2.49 | 5,080.22 | 5,282.49 | 87.64 | Zone 4 |
| J-270 | 4.57 | 5,080.13 | 5,282.49 | 87.68 | Zone 4 |
| J-472 | 4.57 | 5,079.93 | 5,282.49 | 87.77 | Zone 4 |
| J-411 | 2.91 | 5,079.96 | 5,282.60 | 87.8 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,285.12 | 87.81 | Zone 1 |
| J-404 | 3.32 | 5,079.68 | 5,282.60 | 87.92 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,282.60 | 88 | Zone 4 |
| J-23 | 3.85 | 5,102.29 | 5,305.43 | 88.02 | Zone 1 |
| J-604 | 3.85 | 5,086.47 | 5,289.68 | 88.05 | Zone 1 |
| J-239 | 4.15 | 5,078.79 | 5,282.01 | 88.05 | Zone 4 |
| J-458 | 4.15 | 5,079.24 | 5,282.59 | 88.11 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,282.50 | 88.2 | Zone 4 |
| J-597 | 7.7 | 5,085.96 | 5,289.57 | 88.22 | Zone 1 |
| J-277 | 4.99 | 5,078.88 | 5,282.49 | 88.22 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,282.28 | 88.25 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.60 | 88.25 | Zone 4 |
| J-418 | 4.57 | 5,078.88 | 5,282.60 | 88.27 | Zone 4 |
| J-412 | 2.91 | 5,078.68 | 5,282.61 | 88.36 | Zone 4 |
| J-403 | 2.91 | 5,078.53 | 5,282.60 | 88.43 | Zone 4 |
| J-427 | 6.42 | 5,082.41 | 5,286.52 | 88.44 | Zone 1 |
| J-279 | 3.74 | 5,078.05 | 5,282.49 | 88.58 | Zone 4 |
| J-587 | 4.77 | 5,078.13 | 5,282.60 | 88.6 | Zone 4 |
| J-212 | 3.74 | 5,077.48 | 5,281.96 | 88.6 | Zone 4 |
| J-269 | 4.15 | 5,077.78 | 5,282.49 | 88.7 | Zone 4 |
| J-264 | 4.15 | 5,077.35 | 5,282.21 | 88.77 | Zone 4 |
| J-426 | 4.57 | 5,077.65 | 5,282.60 | 88.8 | Zone 4 |
| J-413 | 2.91 | 5,077.49 | 5,282.62 | 88.89 | Zone 4 |
| J-425 | 1.66 | 5,077.39 | 5,282.60 | 88.92 | Zone 4 |
| J-231 | 4.15 | 5,076.71 | 5,282.16 | 89.02 | Zone 4 |
| J-402 | 3.32 | 5,077.13 | 5,282.61 | 89.03 | Zone 4 |
| J-230 | 4.15 | 5,076.30 | 5,282.10 | 89.17 | Zone 4 |
| J-276 | 5.82 | 5,076.67 | 5,282.49 | 89.18 | Zone 4 |
| J-226 | 4.15 | 5,075.95 | 5,282.01 | 89.29 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.61 | 89.32 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,282.65 | 89.47 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,282.62 | 89.53 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.49 | 89.58 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-436 | 5.4 | 5,075.48 | 5,282.28 | 89.61 | Zone 4 |
| J-401 | 3.74 | 5,075.73 | 5,282.63 | 89.65 | Zone 4 |
| J-295 | 5.4 | 5,075.72 | 5,282.62 | 89.65 | Zone 4 |
| J-278 | 4.99 | 5,075.57 | 5,282.49 | 89.66 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,318.19 | 89.67 | Zone 3 |
| J-228 | 4.15 | 5,075.04 | 5,282.05 | 89.7 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,282.60 | 89.73 | Zone 4 |
| J-296 | 4.57 | 5,075.50 | 5,282.62 | 89.74 | Zone 4 |
| J-315 | 5.82 | 5,075.27 | 5,282.63 | 89.85 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,281.82 | 89.87 | Zone 4 |
| J-331 | 5.77 | 5,079.08 | 5,286.53 | 89.89 | Zone 1 |
| J-267 | 0 | 5,074.88 | 5,282.49 | 89.96 | Zone 4 |
| J-254 | 2.91 | 5,074.06 | 5,281.85 | 90.04 | Zone 4 |
| J-589 | 7.7 | 5,082.17 | 5,289.99 | 90.05 | Zone 1 |
| J-337 | 9.62 | 5,077.64 | 5,285.60 | 90.11 | Zone 1 |
| J-314 | 0 | 5,074.59 | 5,282.63 | 90.14 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,282.21 | 90.19 | Zone 4 |
| J-400 | 3.32 | 5,074.49 | 5,282.65 | 90.2 | Zone 4 |
| J-294 | 3.74 | 5,074.33 | 5,282.61 | 90.25 | Zone 4 |
| J-316 | 9.75 | 5,074.16 | 5,282.63 | 90.33 | Zone 4 |
| J-303 | 2.08 | 5,074.07 | 5,282.54 | 90.33 | Zone 4 |
| J-312 | 5.82 | 5,073.95 | 5,282.65 | 90.43 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,282.15 | 90.54 | Zone 4 |
| J-137 | 4.57 | 5,108.67 | 5,317.99 | 90.7 | Zone 3 |
| J-233 | 4.77 | 5,072.79 | 5,282.16 | 90.72 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,282.28 | 90.72 | Zone 4 |
| J-308 | 6.65 | 5,073.29 | 5,282.68 | 90.73 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.50 | 90.73 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,282.65 | 90.77 | Zone 4 |
| J-162 | 6.42 | 5,074.91 | 5,284.43 | 90.79 | Zone 1 |
| J-229 | 0 | 5,072.55 | 5,282.10 | 90.8 | Zone 4 |
| J-260 | 2.49 | 5,072.80 | 5,282.39 | 90.82 | Zone 4 |
| J-266 | 3.74 | 5,072.93 | 5,282.54 | 90.83 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,282.01 | 90.87 | Zone 4 |
| J-313 | 4.99 | 5,072.76 | 5,282.65 | 90.94 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,289.48 | 91.09 | Zone 1 |
| J-227 | 0 | 5,071.72 | 5,282.05 | 91.14 | Zone 4 |
| J-310 | 5.82 | 5,072.34 | 5,282.67 | 91.14 | Zone 4 |
| J-309 | 4.15 | 5,072.32 | 5,282.67 | 91.15 | Zone 4 |
| J-259 | 2.49 | 5,072.01 | 5,282.50 | 91.2 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,281.97 | 91.34 | Zone 4 |
| J-300 | 3.32 | 5,071.64 | 5,282.67 | 91.44 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.39 | 91.5 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,282.50 | 91.52 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,282.67 | 91.53 | Zone 4 |
| J-263 | 9.21 | 5,070.85 | 5,282.28 | 91.61 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-307 | 5.82 | 5,070.23 | 5,282.69 | 92.06 | Zone 4 |
| J-261 | 2.08 | 5,069.91 | 5,282.39 | 92.07 | Zone 4 |
| J-319 | 4.77 | 5,070.24 | 5,282.74 | 92.07 | Zone 4 |
| J-588 | 5.77 | 5,077.31 | 5,289.99 | 92.15 | Zone 1 |
| J-302 | 4.15 | 5,069.92 | 5,282.72 | 92.2 | Zone 4 |
| J-6 | 5.13 | 5,094.60 | 5,307.52 | 92.26 | Zone 1 |
| J-318 | 0 | 5,069.77 | 5,282.73 | 92.27 | Zone 4 |
| J-385 | 5.12 | 5,076.49 | 5,289.69 | 92.38 | Zone 1 |
| J-150 | 5.77 | 5,066.84 | 5,280.14 | 92.42 | Zone 1 |
| J-219 | 3.74 | 5,068.69 | 5,282.00 | 92.42 | Zone 4 |
| J-591 | 0 | 5,076.59 | 5,289.92 | 92.43 | Zone 1 |
| J-251 | 8.31 | 5,069.14 | 5,282.69 | 92.53 | Zone 4 |
| J-28 | 0 | 5,073.11 | 5,286.80 | 92.59 | Zone 1 |
| J-252 | 4.77 | 5,069.06 | 5,282.83 | 92.63 | Zone 4 |
| J-223 | 4.15 | 5,067.34 | 5,282.08 | 93.04 | Zone 4 |
| J-250 | 4.57 | 5,067.75 | 5,282.59 | 93.09 | Zone 4 |
| J-238 | 4.15 | 5,067.17 | 5,282.07 | 93.11 | Zone 4 |
| J-151 | 3.85 | 5,065.12 | 5,280.14 | 93.17 | Zone 1 |
| J-247 | 10.39 | 5,067.68 | 5,282.77 | 93.2 | Zone 4 |
| J-136 | 12.05 | 5,100.47 | 5,315.96 | 93.37 | Zone 3 |
| J-220 | 4.15 | 5,066.08 | 5,282.02 | 93.56 | Zone 4 |
| J-221 | 4.15 | 5,066.06 | 5,282.05 | 93.59 | Zone 4 |
| J-135 | 14.13 | 5,097.88 | 5,316.05 | 94.53 | Zone 3 |
| J-289 | 5.13 | 5,087.80 | 5,307.32 | 95.12 | Zone 1 |
| J-152 | 6.42 | 5,058.73 | 5,280.14 | 95.94 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,285.93 | 96.14 | Zone 4 |
| J-164 | 8.98 | 5,059.45 | 5,281.44 | 96.19 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,284.11 | 96.86 | Zone 1 |
| J-163 | 8.34 | 5,058.71 | 5,282.33 | 96.9 | Zone 1 |
| J-153 | 5.77 | 5,056.40 | 5,280.14 | 96.94 | Zone 1 |
| J-158 | 12.83 | 5,060.32 | 5,284.22 | 97.01 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,279.68 | 97.38 | Zone 1 |
| J-165 | 13.47 | 5,057.28 | 5,283.20 | 97.89 | Zone 1 |
| J-154 | 8.97 | 5,053.62 | 5,280.14 | 98.15 | Zone 1 |
| J-155 | 5.13 | 5,051.81 | 5,280.14 | 98.93 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,279.08 | 98.98 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,279.68 | 99.07 | Zone 1 |
| J-305 | 5.13 | 5,077.07 | 5,306.58 | 99.45 | Zone 1 |
| J-611 | 4.49 | 5,049.06 | 5,280.41 | 100.25 | Zone 1 |
| J-612 | 6.83 | 5,047.26 | 5,280.42 | 101.02 | Zone 1 |
| J-304 | 5.13 | 5,072.38 | 5,306.58 | 101.48 | Zone 1 |
| J-49 | 9.62 | 5,042.76 | 5,283.13 | 104.15 | Zone 1 |
| J-48 | 9.62 | 5,042.96 | 5,283.38 | 104.17 | Zone 1 |
| J-47 | 7.7 | 5,043.03 | 5,283.78 | 104.32 | Zone 1 |
| J-35 | 7.06 | 5,040.53 | 5,284.85 | 105.86 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,286.44 | 106.28 | Zone 1 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-1252IRR | 8.1 | 5,040.67 | 5,286.38 | 106.47 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,290.64 | 106.54 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.55 | 106.56 | Zone 4 |
| FH-801 | 0 | 5,040.29 | 5,286.44 | 106.66 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,286.44 | 106.73 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,286.44 | 106.89 | Zone 1 |
| J-13 | 5.12 | 5,039.32 | 5,286.44 | 107.08 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,291.30 | 108.02 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,292.08 | 108.79 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,292.33 | 108.92 | Zone 4 |
| J-8 | 5.13 | 5,054.92 | 5,307.36 | 109.38 | Zone 1 |
| J-10 | 5.13 | 5,052.43 | 5,304.94 | 109.41 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,292.84 | 110.51 | Zone 1 |
| J-9 | 5.13 | 5,049.50 | 5,305.78 | 111.05 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,300.04 | 115.09 | Zone 1 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.8 | Zone 4 |
| J-243 | 0 | 5,266 | 5,324 | 25.01 | Zone 3 |
| J-742 | 0 | 5,189 | 5,283 | 40.47 | Zone 4 |
| J-760 | 0 | 5,189 | 5,283 | 40.52 | Zone 4 |
| J-241 | 0 | 5,189 | 5,283 | 40.57 | Zone 4 |
| H-5-PH18 | 0 | 5,189 | 5,283 | 40.73 | Zone 4 |
| J-743 | 4.57 | 5,188 | 5,283 | 40.91 | Zone 4 |
| H-9-PH19 | 0 | 5,188 | 5,283 | 41.16 | Zone 4 |
| J-759 | 0 | 5,187 | 5,283 | 41.34 | Zone 4 |
| J-747 | 3.74 | 5,186 | 5,283 | 41.91 | Zone 4 |
| H-8-PH19 | 0 | 5,185 | 5,283 | 42.31 | Zone 4 |
| J-749 | 0 | 5,185 | 5,283 | 42.49 | Zone 4 |
| H-7-PH19 | 0 | 5,184 | 5,283 | 42.74 | Zone 4 |
| J-746 | 0 | 5,184 | 5,283 | 42.89 | Zone 4 |
| J-751 | 3.32 | 5,183 | 5,283 | 43.2 | Zone 4 |
| J-480 | 0 | 5,179 | 5,283 | 45.05 | Zone 4 |
| J-397 | 4.99 | 5,177 | 5,283 | 45.78 | Zone 4 |
| J-396 | 5.82 | 5,177 | 5,283 | 46 | Zone 4 |
| H-6-PH19 | 0 | 5,176 | 5,283 | 46.13 | Zone 4 |
| J-753 | 4.15 | 5,175 | 5,283 | 46.51 | Zone 4 |
| -PH19IRR | 0 | 5,174 | 5,283 | 47.33 | Zone 4 |
| J-398 | 4.77 | 5,173 | 5,283 | 47.38 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,283 | 47.4 | Zone 4 |
| J-752 | 4.15 | 5,173 | 5,283 | 47.65 | Zone 4 |
| J-234 | 2.91 | 5,211 | 5,324 | 49.1 | Zone 3 |
| J-127 | 7.68 | 5,087 | 5,203 | 50.21 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,283 | 50.89 | Zone 4 |
| J-33 | 0 | 5,085 | 5,203 | 51 | Zone 2 |
| J-481 | 0 | 5,165 | 5,283 | 51.12 | Zone 4 |
| J-755 | 4.15 | 5,165 | 5,283 | 51.13 | Zone 4 |
| H-3-PH19 | 0 | 5,164 | 5,283 | 51.66 | Zone 4 |
| J-79 | 20.49 | 5,083 | 5,203 | 51.98 | Zone 2 |
| J-235 | 0 | 5,204 | 5,324 | 51.99 | Zone 3 |
| J-744 | 0 | 5,163 | 5,283 | 52.01 | Zone 4 |
| J-1 | 0 | 5,206 | 5,326 | 52.04 | Zone 1 |
| J-87 | 6.15 | 5,083 | 5,203 | 52.16 | Zone 2 |
| J-756 | 4.15 | 5,162 | 5,283 | 52.23 | Zone 4 |
| J-77 | 6.66 | 5,082 | 5,203 | 52.37 | Zone 2 |
| J-128 | 8.71 | 5,082 | 5,203 | 52.63 | Zone 2 |
| J-237 | 3.32 | 5,202 | 5,324 | 52.7 | Zone 3 |
| J-78 | 0 | 5,081 | 5,203 | 52.86 | Zone 2 |
| J-129 | 0 | 5,081 | 5,203 | 52.88 | Zone 2 |
| J-75 | 4.1 | 5,081 | 5,203 | 53.1 | Zone 2 |
| J-126 | 8.2 | 5,080 | 5,203 | 53.28 | Zone 2 |
| J-395 | 4.15 | 5,159 | 5,283 | 53.46 | Zone 4 |
| J-65 | 5.63 | 5,080 | 5,203 | 53.49 | Zone 2 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-80 | 0 | 5,079 | 5,203 | 53.68 | Zone 2 |
| J-88 | 7.17 | 5,079 | 5,203 | 53.78 | Zone 2 |
| J-2 | 0 | 5,202 | 5,326 | 53.8 | Zone 1 |
| J-125 | 0 | 5,078 | 5,203 | 53.99 | Zone 2 |
| J-64 | 5.63 | 5,078 | 5,203 | 54 | Zone 2 |
| J-185 | 0 | 5,199 | 5,324 | 54.06 | Zone 3 |
| J-392 | 5.82 | 5,158 | 5,283 | 54.2 | Zone 4 |
| J-394 | 5.82 | 5,158 | 5,283 | 54.2 | Zone 4 |
| J-83 | 6.15 | 5,077 | 5,203 | 54.42 | Zone 2 |
| J-130 | 7.68 | 5,077 | 5,203 | 54.45 | Zone 2 |
| J-82 | 0 | 5,076 | 5,203 | 55.05 | Zone 2 |
| J-240 | 0 | 5,076 | 5,203 | 55.12 | Zone 2 |
| J-133 | 10.25 | 5,075 | 5,203 | 55.39 | Zone 2 |
| J-76 | 2.56 | 5,075 | 5,203 | 55.65 | Zone 2 |
| J-84 | 7.17 | 5,074 | 5,203 | 55.76 | Zone 2 |
| J-399 | 0 | 5,154 | 5,283 | 55.86 | Zone 4 |
| J-89 | 0 | 5,074 | 5,203 | 55.92 | Zone 2 |
| J-132 | 0 | 5,074 | 5,203 | 56.11 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,283 | 56.23 | Zone 4 |
| J-66 | 7.17 | 5,073 | 5,203 | 56.43 | Zone 2 |
| SELEMSC | 5.12 | 5,073 | 5,203 | 56.47 | Zone 2 |
| J-131 | 10.25 | 5,073 | 5,203 | 56.49 | Zone 2 |
| J-81 | 10.25 | 5,073 | 5,203 | 56.5 | Zone 2 |
| J-758 | 4.15 | 5,152 | 5,283 | 56.57 | Zone 4 |
| J-90 | 6.15 | 5,072 | 5,203 | 56.58 | Zone 2 |
| J-134 | 0 | 5,072 | 5,203 | 56.66 | Zone 2 |
| J-98 | 0 | 5,072 | 5,203 | 56.83 | Zone 2 |
| J-93 | 0 | 5,072 | 5,203 | 56.9 | Zone 2 |
| J-85 | 6.66 | 5,072 | 5,203 | 56.96 | Zone 2 |
| J-124 | 0 | 5,072 | 5,203 | 56.98 | Zone 2 |
| J-91 | 0 | 5,071 | 5,203 | 57.02 | Zone 2 |
| -PH19IRR | 0 | 5,151 | 5,283 | 57.26 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,283 | 57.27 | Zone 4 |
| J-44 | 9.73 | 5,071 | 5,203 | 57.36 | Zone 2 |
| J-355 | 0 | 5,071 | 5,203 | 57.37 | Zone 2 |
| J-92 | 7.68 | 5,070 | 5,203 | 57.54 | Zone 2 |
| J-757 | 4.15 | 5,150 | 5,283 | 57.59 | Zone 4 |
| J-99 | 0 | 5,070 | 5,203 | 57.63 | Zone 2 |
| WELL7 | 0 | 5,200 | 5,333 | 57.72 | Zone 1 |
| J-120 | 10.25 | 5,069 | 5,203 | 57.9 | Zone 2 |
| J-45 | 8.2 | 5,069 | 5,203 | 58.03 | Zone 2 |
| J-40 | 9.73 | 5,069 | 5,203 | 58.04 | Zone 2 |
| J-115 | 6.66 | 5,068 | 5,203 | 58.41 | Zone 2 |
| J-95 | 9.73 | 5,068 | 5,203 | 58.57 | Zone 2 |
| J-86 | 0 | 5,068 | 5,203 | 58.66 | Zone 2 |
| J-106 | 8.71 | 5,067 | 5,203 | 58.81 | Zone 2 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-121 | 0 | 5,067 | 5,203 | 58.92 | Zone 2 |
| J-393 | 4.99 | 5,147 | 5,283 | 58.98 | Zone 4 |
| J-109 | 5.12 | 5,067 | 5,203 | 59.03 | Zone 2 |
| J-96 | 8.2 | 5,067 | 5,203 | 59.09 | Zone 2 |
| J-391 | 4.15 | 5,146 | 5,283 | 59.18 | Zone 4 |
| J-105 | 0 | 5,066 | 5,203 | 59.23 | Zone 2 |
| J-62 | 5.12 | 5,066 | 5,203 | 59.31 | Zone 2 |
| J-192 | 2.98 | 5,189 | 5,326 | 59.34 | Zone 1 |
| J-67 | 8.2 | 5,066 | 5,203 | 59.35 | Zone 2 |
| J-108 | 7.17 | 5,066 | 5,203 | 59.36 | Zone 2 |
| J-119 | 5.12 | 5,066 | 5,203 | 59.4 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,203 | 59.53 | Zone 2 |
| J-118 | 5.63 | 5,066 | 5,203 | 59.54 | Zone 2 |
| J-104 | 6.66 | 5,065 | 5,203 | 59.69 | Zone 2 |
| J-103 | 5.63 | 5,065 | 5,203 | 59.76 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,203 | 59.78 | Zone 2 |
| J-114 | 8.2 | 5,065 | 5,203 | 59.78 | Zone 2 |
| J-70 | 3.59 | 5,065 | 5,203 | 59.83 | Zone 2 |
| J-123 | 8.2 | 5,065 | 5,203 | 59.91 | Zone 2 |
| J-110 | 12.81 | 5,065 | 5,203 | 59.96 | Zone 2 |
| J-97 | 0 | 5,064 | 5,203 | 60.11 | Zone 2 |
| J-140 | 10.8 | 5,185 | 5,324 | 60.16 | Zone 3 |
| FH-925 | 0 | 5,144 | 5,283 | 60.27 | Zone 4 |
| J-39 | 8.2 | 5,064 | 5,203 | 60.28 | Zone 2 |
| J-117 | 0 | 5,064 | 5,203 | 60.39 | Zone 2 |
| J-122 | 7.17 | 5,063 | 5,203 | 60.5 | Zone 2 |
| J-38 | 9.22 | 5,063 | 5,203 | 60.56 | Zone 2 |
| J-23-1188 | 1.25 | 5,143 | 5,283 | 60.61 | Zone 4 |
| J-116 | 7.17 | 5,063 | 5,203 | 60.67 | Zone 2 |
| WELL6 | 0 | 5,191 | 5,331 | 60.76 | Zone 1 |
| J-111 | 9.22 | 5,063 | 5,203 | 60.85 | Zone 2 |
| J-482 | 0 | 5,142 | 5,283 | 60.86 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,283 | 60.92 | Zone 4 |
| J-23-1191 | 0 | 5,142 | 5,283 | 60.96 | Zone 4 |
| J-23-1193 | 2.91 | 5,142 | 5,283 | 61 | Zone 4 |
| J-23-1190 | 0.83 | 5,142 | 5,283 | 61 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,283 | 61.02 | Zone 4 |
| J-23-1189 | 1.25 | 5,142 | 5,283 | 61.02 | Zone 4 |
| J-275 | 7.17 | 5,062 | 5,203 | 61.05 | Zone 2 |
| J-23-1187 | 0.83 | 5,142 | 5,283 | 61.08 | Zone 4 |
| J-830 | 0 | 5,141 | 5,283 | 61.23 | Zone 4 |
| J-142 | 5.4 | 5,182 | 5,324 | 61.58 | Zone 3 |
| J-679 | 7.06 | 5,140 | 5,283 | 61.68 | Zone 4 |
| J-1184 | 0 | 5,140 | 5,283 | 61.84 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,283 | 61.9 | Zone 4 |
| J-73 | 0 | 5,060 | 5,203 | 61.93 | Zone 2 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-23-1225 | 0 | 5,140 | 5,283 | 61.94 | Zone 4 |
| J-685 | 0 | 5,139 | 5,283 | 62.1 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,283 | 62.18 | Zone 4 |
| J-390 | 0 | 5,139 | 5,283 | 62.2 | Zone 4 |
| J-100 | 6.66 | 5,060 | 5,203 | 62.21 | Zone 2 |
| J-836 | 3.74 | 5,139 | 5,283 | 62.23 | Zone 4 |
| J-819 | 0 | 5,139 | 5,283 | 62.26 | Zone 4 |
| J-101 | 0 | 5,059 | 5,203 | 62.29 | Zone 2 |
| J-829 | 0 | 5,139 | 5,283 | 62.43 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,283 | 62.45 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,283 | 62.56 | Zone 4 |
| J-61 | 9.22 | 5,059 | 5,203 | 62.56 | Zone 2 |
| FH-921 | 0 | 5,138 | 5,283 | 62.59 | Zone 4 |
| J-841 | 0 | 5,138 | 5,283 | 62.7 | Zone 4 |
| J-74 | 8.71 | 5,058 | 5,203 | 63.12 | Zone 2 |
| J-820 | 0 | 5,137 | 5,283 | 63.32 | Zone 4 |
| J-72 | 11.27 | 5,057 | 5,203 | 63.33 | Zone 2 |
| H-7-PH20 | 0 | 5,137 | 5,283 | 63.36 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,283 | 63.38 | Zone 4 |
| J-3 | 0 | 5,179 | 5,326 | 63.38 | Zone 1 |
| J-17 | 0 | 5,057 | 5,203 | 63.41 | Zone 2 |
| J-112 | 10.76 | 5,057 | 5,203 | 63.45 | Zone 2 |
| J-60 | 8.2 | 5,057 | 5,203 | 63.49 | Zone 2 |
| J-102 | 10.25 | 5,056 | 5,203 | 63.64 | Zone 2 |
| J-815 | 4.77 | 5,136 | 5,283 | 63.64 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,283 | 63.7 | Zone 4 |
| J-59 | 5.12 | 5,057 | 5,204 | 63.82 | Zone 2 |
| J-71 | 0 | 5,056 | 5,203 | 63.88 | Zone 2 |
| J-274 | 5.12 | 5,055 | 5,203 | 63.93 | Zone 2 |
| J-678 | 0 | 5,135 | 5,283 | 64.03 | Zone 4 |
| J-43 | 5.12 | 5,055 | 5,203 | 64.26 | Zone 2 |
| J-352 | 5.4 | 5,134 | 5,283 | 64.31 | Zone 4 |
| J-157 | 0 | 5,054 | 5,203 | 64.57 | Zone 2 |
| J-113 | 2.05 | 5,054 | 5,203 | 64.62 | Zone 2 |
| FH-922 | 0 | 5,134 | 5,283 | 64.67 | Zone 4 |
| J-193 | 5.13 | 5,175 | 5,325 | 64.81 | Zone 1 |
| FH-926 | 0 | 5,133 | 5,283 | 64.85 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,283 | 65 | Zone 4 |
| J-810 | 0 | 5,133 | 5,283 | 65.11 | Zone 4 |
| J-57 | 7.17 | 5,053 | 5,204 | 65.15 | Zone 2 |
| J-816 | 4.99 | 5,132 | 5,283 | 65.28 | Zone 4 |
| J-187 | 0 | 5,173 | 5,324 | 65.56 | Zone 3 |
| J-37 | 0 | 5,052 | 5,203 | 65.64 | Zone 2 |
| J-730 | 0 | 5,131 | 5,283 | 65.64 | Zone 4 |
| J-806 | 0 | 5,131 | 5,283 | 65.72 | Zone 4 |
| J-732 | 0 | 5,131 | 5,283 | 65.78 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-1-PH20 | 0 | 5,131 | 5,283 | 65.79 | Zone 4 |
| J-69 | 0 | 5,051 | 5,203 | 65.85 | Zone 2 |
| H-2-PH18 | 0 | 5,131 | 5,283 | 65.88 | Zone 4 |
| J-677 | 8.31 | 5,130 | 5,283 | 66.04 | Zone 4 |
| J-688 | 4.77 | 5,130 | 5,283 | 66.21 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,283 | 66.22 | Zone 4 |
| J-68 | 7.17 | 5,050 | 5,203 | 66.25 | Zone 2 |
| J-58 | 0 | 5,051 | 5,203 | 66.28 | Zone 2 |
| J22-899 | 0 | 5,130 | 5,283 | 66.28 | Zone 4 |
| J-23-1195 | 1.25 | 5,130 | 5,283 | 66.29 | Zone 4 |
| J-23-1196 | 1.66 | 5,130 | 5,283 | 66.3 | Zone 4 |
| J-1245 | 0 | 5,050 | 5,203 | 66.3 | Zone 2 |
| J-811 | 5.4 | 5,130 | 5,283 | 66.31 | Zone 4 |
| J-16 | 0 | 5,050 | 5,203 | 66.34 | Zone 2 |
| J-23-1194 | 2.08 | 5,130 | 5,283 | 66.4 | Zone 4 |
| J-687 | 0 | 5,129 | 5,283 | 66.55 | Zone 4 |
| J-1262 | 2.98 | 5,172 | 5,326 | 66.6 | Zone 1 |
| J-807 | 4.57 | 5,129 | 5,283 | 66.62 | Zone 4 |
| J-53 | 9.22 | 5,049 | 5,203 | 66.63 | Zone 2 |
| J-23-1197 | 1.25 | 5,129 | 5,283 | 66.74 | Zone 4 |
| J-145 | 4.99 | 5,170 | 5,324 | 66.74 | Zone 3 |
| J-1246 | 0 | 5,049 | 5,203 | 66.76 | Zone 2 |
| J-675 | 0 | 5,129 | 5,283 | 66.77 | Zone 4 |
| J-839 | 0 | 5,128 | 5,283 | 67.19 | Zone 4 |
| J-483 | 0 | 5,128 | 5,283 | 67.19 | Zone 4 |
| J-676 | 0 | 5,127 | 5,283 | 67.34 | Zone 4 |
| H-69-PH19 | 0 | 5,127 | 5,283 | 67.34 | Zone 4 |
| J-141 | 4.57 | 5,169 | 5,324 | 67.38 | Zone 3 |
| FH-930 | 0 | 5,127 | 5,283 | 67.51 | Zone 4 |
| J-443 | 4.15 | 5,127 | 5,283 | 67.56 | Zone 4 |
| J-576 | 4.99 | 5,126 | 5,283 | 67.76 | Zone 4 |
| J-63 | 10.67 | 5,047 | 5,204 | 67.92 | Zone 2 |
| J-1198 | 0 | 5,126 | 5,283 | 67.96 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,283 | 67.98 | Zone 4 |
| J-55 | 6.15 | 5,047 | 5,204 | 68.04 | Zone 2 |
| J-50 | 6.15 | 5,046 | 5,204 | 68.09 | Zone 2 |
| J-842 | 3.74 | 5,126 | 5,283 | 68.1 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,283 | 68.19 | Zone 4 |
| H-66-PH19 | 0 | 5,125 | 5,283 | 68.28 | Zone 4 |
| J-844 | 2.08 | 5,125 | 5,283 | 68.45 | Zone 4 |
| J-805 | 0 | 5,045 | 5,204 | 68.52 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,283 | 68.59 | Zone 4 |
| H-21-PH19 | 0 | 5,045 | 5,204 | 68.69 | Zone 4 |
| J-736 | 5.82 | 5,124 | 5,283 | 68.71 | Zone 4 |
| J-255 | 0 | 5,045 | 5,204 | 68.75 | Zone 2 |
| J-51 | 4.61 | 5,045 | 5,203 | 68.75 | Zone 2 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-2-PH20 | 0 | 5,124 | 5,283 | 68.98 | Zone 4 |
| J-56 | 9.22 | 5,044 | 5,204 | 69.2 | Zone 2 |
| J-15 | 5.97 | 5,045 | 5,204 | 69.23 | Zone 2 |
| J-52 | 3.59 | 5,043 | 5,203 | 69.38 | Zone 2 |
| ALLEYCHU | 10.24 | 5,043 | 5,204 | 69.5 | Zone 2 |
| J-42 | 2.98 | 5,043 | 5,204 | 69.51 | Zone 2 |
| J-194 | 7.68 | 5,043 | 5,204 | 69.52 | Zone 2 |
| J-817 | 0 | 5,122 | 5,283 | 69.6 | Zone 4 |
| J-54 | 0 | 5,045 | 5,205 | 69.6 | Zone 2 |
| J-797 | 9.22 | 5,047 | 5,207 | 69.64 | Zone 2 |
| J-846 | 0 | 5,122 | 5,283 | 69.74 | Zone 4 |
| J-690 | 0 | 5,122 | 5,283 | 69.76 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,283 | 69.85 | Zone 4 |
| J-674 | 0 | 5,121 | 5,283 | 69.92 | Zone 4 |
| NDYKEWE | 0 | 5,046 | 5,207 | 70.06 | Zone 2 |
| H-6-PH20 | 0 | 5,121 | 5,283 | 70.09 | Zone 4 |
| J-808 | 0 | 5,121 | 5,283 | 70.17 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,283 | 70.18 | Zone 4 |
| J-843 | 0 | 5,121 | 5,283 | 70.19 | Zone 4 |
| J-812 | 0 | 5,121 | 5,283 | 70.21 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,283 | 70.21 | Zone 4 |
| J-389 | 1.66 | 5,120 | 5,283 | 70.36 | Zone 4 |
| J-4 | 8.12 | 5,163 | 5,325 | 70.38 | Zone 1 |
| FH-924 | 0 | 5,120 | 5,283 | 70.39 | Zone 4 |
| J-143 | 3.74 | 5,161 | 5,324 | 70.72 | Zone 3 |
| 9RENOTR | 2.98 | 5,042 | 5,205 | 70.76 | Zone 2 |
| J-23-1201 | 1.66 | 5,119 | 5,283 | 70.88 | Zone 4 |
| J-348 | 4.15 | 5,119 | 5,283 | 70.9 | Zone 4 |
| J-23-1202 | 2.08 | 5,119 | 5,283 | 71.01 | Zone 4 |
| J-813 | 4.99 | 5,118 | 5,283 | 71.39 | Zone 4 |
| J-818 | 4.57 | 5,118 | 5,283 | 71.42 | Zone 4 |
| J-184 | 4.77 | 5,118 | 5,283 | 71.43 | Zone 4 |
| J-680 | 5.4 | 5,118 | 5,283 | 71.43 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,283 | 71.6 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,283 | 71.64 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,283 | 71.67 | Zone 4 |
| J-823 | 0 | 5,117 | 5,283 | 71.69 | Zone 4 |
| J-809 | 4.57 | 5,117 | 5,283 | 71.7 | Zone 4 |
| J-729 | 0 | 5,117 | 5,283 | 71.87 | Zone 4 |
| J-346 | 0 | 5,116 | 5,283 | 72.19 | Zone 4 |
| J-735 | 0 | 5,116 | 5,283 | 72.27 | Zone 4 |
| J-851 | 3.32 | 5,116 | 5,283 | 72.32 | Zone 4 |
| H-61-PH19 | 0 | 5,116 | 5,283 | 72.32 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,283 | 72.35 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,283 | 72.49 | Zone 4 |
| J-770 | 0 | 5,115 | 5,283 | 72.5 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-928 | 0 | 5,115 | 5,283 | 72.54 | Zone 4 |
| J-833 | 0 | 5,115 | 5,283 | 72.58 | Zone 4 |
| H-64-PH19 | 0 | 5,115 | 5,283 | 72.6 | Zone 4 |
| J-840 | 4.15 | 5,115 | 5,283 | 72.75 | Zone 4 |
| J-845 | 4.15 | 5,115 | 5,283 | 72.82 | Zone 4 |
| H-70-PH19 | 0 | 5,115 | 5,283 | 72.89 | Zone 4 |
| J22-886 | 1.25 | 5,114 | 5,283 | 73.06 | Zone 4 |
| J-814 | 0 | 5,114 | 5,283 | 73.07 | Zone 4 |
| H-58-PH19 | 0 | 5,114 | 5,283 | 73.15 | Zone 4 |
| J-855 | 3.74 | 5,114 | 5,283 | 73.19 | Zone 4 |
| J-442 | 4.57 | 5,114 | 5,283 | 73.21 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,283 | 73.24 | Zone 4 |
| J22-884 | 1.25 | 5,114 | 5,283 | 73.29 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,283 | 73.32 | Zone 4 |
| J-832 | 0 | 5,113 | 5,283 | 73.36 | Zone 4 |
| J-689 | 3.74 | 5,113 | 5,283 | 73.36 | Zone 4 |
| J22-1079 | 2.78 | 5,113 | 5,283 | 73.38 | Zone 4 |
| J22-1159 | 1.25 | 5,113 | 5,283 | 73.4 | Zone 4 |
| J-852 | 3.32 | 5,113 | 5,283 | 73.42 | Zone 4 |
| J22-1158 | 1.25 | 5,113 | 5,283 | 73.42 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,283 | 73.44 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,283 | 73.48 | Zone 4 |
| J-856 | 3.74 | 5,113 | 5,283 | 73.49 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,283 | 73.51 | Zone 4 |
| J-650 | 0 | 5,113 | 5,283 | 73.59 | Zone 4 |
| DDLESCH | 4.77 | 5,112 | 5,283 | 73.95 | Zone 4 |
| J-441 | 4.57 | 5,112 | 5,283 | 73.97 | Zone 4 |
| J-783 | 2.91 | 5,112 | 5,283 | 74 | Zone 4 |
| J-570 | 0 | 5,112 | 5,283 | 74 | Zone 4 |
| J-434 | 3.32 | 5,112 | 5,283 | 74.06 | Zone 4 |
| H-20-PH17 | 0 | 5,112 | 5,283 | 74.08 | Zone 4 |
| J-139 | 0 | 5,153 | 5,324 | 74.11 | Zone 3 |
| J-854 | 3.74 | 5,112 | 5,283 | 74.13 | Zone 4 |
| H-57-PH19 | 0 | 5,112 | 5,283 | 74.21 | Zone 4 |
| J-734 | 0 | 5,111 | 5,283 | 74.44 | Zone 4 |
| J-433 | 1.66 | 5,111 | 5,283 | 74.47 | Zone 4 |
| J-195 | 0 | 5,111 | 5,283 | 74.52 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,283 | 74.58 | Zone 4 |
| FH-919 | 4.99 | 5,111 | 5,283 | 74.6 | Zone 4 |
| J-681 | 0 | 5,110 | 5,283 | 74.7 | Zone 4 |
| H-72-PH19 | 0 | 5,110 | 5,283 | 74.81 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,283 | 74.94 | Zone 4 |
| J22-1082 | 4.77 | 5,110 | 5,283 | 75.02 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,283 | 75.12 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,283 | 75.13 | Zone 4 |
| J-649 | 0 | 5,109 | 5,283 | 75.22 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| PH22-FH5 | 0 | 5,109 | 5,283 | 75.24 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,283 | 75.38 | Zone 4 |
| J22-1161 | 1.25 | 5,109 | 5,283 | 75.44 | Zone 4 |
| J-835 | 0 | 5,109 | 5,283 | 75.45 | Zone 4 |
| J-834 | 0 | 5,109 | 5,283 | 75.5 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,283 | 75.5 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,283 | 75.52 | Zone 4 |
| H-62-PH19 | 0 | 5,108 | 5,283 | 75.58 | Zone 4 |
| J-571 | 0 | 5,108 | 5,283 | 75.7 | Zone 4 |
| J22-1163 | 1.25 | 5,108 | 5,283 | 75.72 | Zone 4 |
| J-731 | 0 | 5,108 | 5,283 | 75.73 | Zone 4 |
| J-286 | 13.08 | 5,108 | 5,283 | 75.82 | Zone 4 |
| J-652 | 6.42 | 5,148 | 5,323 | 75.83 | Zone 1 |
| PH22-FH7 | 0 | 5,108 | 5,283 | 75.87 | Zone 4 |
| J-847 | 0 | 5,107 | 5,283 | 76.11 | Zone 4 |
| J-642 | 0 | 5,107 | 5,283 | 76.17 | Zone 4 |
| J22-890 | 0.83 | 5,107 | 5,283 | 76.26 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,283 | 76.35 | Zone 4 |
| J-284 | 6.65 | 5,106 | 5,283 | 76.44 | Zone 4 |
| J-667 | 0 | 5,106 | 5,283 | 76.61 | Zone 4 |
| J-850 | 3.32 | 5,106 | 5,283 | 76.77 | Zone 4 |
| J-765 | 0 | 5,106 | 5,283 | 76.79 | Zone 4 |
| H-63-PH19 | 0 | 5,105 | 5,283 | 76.84 | Zone 4 |
| J-857 | 0 | 5,105 | 5,283 | 76.92 | Zone 4 |
| J-858 | 3.32 | 5,105 | 5,283 | 77.23 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,283 | 77.32 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,283 | 77.4 | Zone 4 |
| J-144 | 0 | 5,145 | 5,324 | 77.54 | Zone 3 |
| J-23-1206 | 1.25 | 5,104 | 5,283 | 77.58 | Zone 4 |
| J-769 | 0 | 5,104 | 5,283 | 77.63 | Zone 4 |
| J-853 | 0 | 5,103 | 5,283 | 77.77 | Zone 4 |
| H-19-PH17 | 0 | 5,103 | 5,283 | 77.81 | Zone 4 |
| J-764 | 4.77 | 5,103 | 5,283 | 77.82 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,283 | 77.85 | Zone 4 |
| J-203 | 4.15 | 5,103 | 5,283 | 77.87 | Zone 4 |
| J-23-1205 | 1.25 | 5,103 | 5,283 | 77.91 | Zone 4 |
| J-189 | 0 | 5,145 | 5,325 | 77.93 | Zone 1 |
| J-733 | 5.82 | 5,103 | 5,283 | 77.93 | Zone 4 |
| J-651 | 0 | 5,103 | 5,283 | 77.99 | Zone 4 |
| J-283 | 4.57 | 5,103 | 5,283 | 78 | Zone 4 |
| J-782 | 2.91 | 5,103 | 5,283 | 78.06 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,283 | 78.09 | Zone 4 |
| J22-1165 | 1.66 | 5,102 | 5,283 | 78.19 | Zone 4 |
| J-799 | 0 | 5,102 | 5,283 | 78.21 | Zone 4 |
| J22-1164 | 1.25 | 5,102 | 5,283 | 78.23 | Zone 4 |
| J22-1084 | 0 | 5,102 | 5,283 | 78.28 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-666 | 5.4 | 5,102 | 5,283 | 78.29 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,283 | 78.34 | Zone 4 |
| J-23-1203 | 2.08 | 5,102 | 5,283 | 78.42 | Zone 4 |
| J22-892 | 0.83 | 5,102 | 5,283 | 78.49 | Zone 4 |
| J-1071 | 0 | 5,101 | 5,283 | 78.57 | Zone 4 |
| J-768 | 0 | 5,101 | 5,283 | 78.73 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,283 | 78.76 | Zone 4 |
| J-683 | 5.4 | 5,101 | 5,283 | 78.89 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,283 | 78.93 | Zone 4 |
| J-432 | 1.66 | 5,101 | 5,283 | 78.93 | Zone 4 |
| J22-1166 | 0 | 5,100 | 5,283 | 79.03 | Zone 4 |
| PH22-FH10 | 0 | 5,100 | 5,283 | 79.07 | Zone 4 |
| J-190 | 0 | 5,143 | 5,325 | 79.08 | Zone 1 |
| H-18-PH17 | 0 | 5,100 | 5,283 | 79.14 | Zone 4 |
| J-204 | 4.15 | 5,100 | 5,283 | 79.27 | Zone 4 |
| H-16-PH17 | 0 | 5,100 | 5,283 | 79.34 | Zone 4 |
| J-780 | 4.99 | 5,099 | 5,283 | 79.43 | Zone 4 |
| J-763 | 0 | 5,099 | 5,283 | 79.43 | Zone 4 |
| J-196 | 0 | 5,099 | 5,283 | 79.47 | Zone 4 |
| J22-1168 | 1.66 | 5,099 | 5,283 | 79.52 | Zone 4 |
| H-17-PH17 | 0 | 5,099 | 5,283 | 79.53 | Zone 4 |
| PH22-FH11 | 0 | 5,099 | 5,283 | 79.57 | Zone 4 |
| J22-1170 | 1.66 | 5,099 | 5,283 | 79.7 | Zone 4 |
| PH22-FH12 | 0 | 5,099 | 5,283 | 79.7 | Zone 4 |
| J-781 | 4.15 | 5,099 | 5,283 | 79.73 | Zone 4 |
| J-23-1204 | 2.08 | 5,099 | 5,283 | 79.75 | Zone 4 |
| J-281 | 3.32 | 5,099 | 5,283 | 79.78 | Zone 4 |
| LDG3-CCO | 2.78 | 5,099 | 5,283 | 79.79 | Zone 4 |
| J22-1147 | 0 | 5,099 | 5,283 | 79.8 | Zone 4 |
| J22-1086 | 0 | 5,099 | 5,283 | 79.84 | Zone 4 |
| J22-1171 | 1.66 | 5,099 | 5,283 | 79.85 | Zone 4 |
| J-715 | 0 | 5,099 | 5,283 | 79.85 | Zone 4 |
| J-728 | 0 | 5,098 | 5,283 | 79.91 | Zone 4 |
| J-779 | 0 | 5,098 | 5,283 | 79.93 | Zone 4 |
| PH22-FH13 | 0 | 5,098 | 5,283 | 79.95 | Zone 4 |
| J-704 | 4.77 | 5,098 | 5,283 | 80.08 | Zone 4 |
| J22-896 | 0 | 5,098 | 5,283 | 80.11 | Zone 4 |
| J-665 | 0 | 5,098 | 5,283 | 80.14 | Zone 4 |
| J22-1169 | 2.08 | 5,097 | 5,283 | 80.33 | Zone 4 |
| H-15-PH17 | 0 | 5,097 | 5,283 | 80.35 | Zone 4 |
| PH22-FH14 | 0 | 5,097 | 5,283 | 80.38 | Zone 4 |
| PH22-FH15 | 0 | 5,097 | 5,283 | 80.41 | Zone 4 |
| J-639 | 0 | 5,097 | 5,283 | 80.42 | Zone 4 |
| J22-1172 | 3.74 | 5,097 | 5,283 | 80.42 | Zone 4 |
| J-484 | 4.57 | 5,097 | 5,283 | 80.45 | Zone 4 |
| J-767 | 4.77 | 5,097 | 5,283 | 80.48 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-705 | 0 | 5,097 | 5,283 | 80.48 | Zone 4 |
| J-778 | 6.23 | 5,097 | 5,283 | 80.57 | Zone 4 |
| J-671 | 4.77 | 5,097 | 5,283 | 80.65 | Zone 4 |
| J-613 | 0 | 5,097 | 5,283 | 80.67 | Zone 4 |
| J22-898 | 0 | 5,097 | 5,283 | 80.73 | Zone 4 |
| J-205 | 4.15 | 5,096 | 5,283 | 80.8 | Zone 4 |
| J-714 | 0 | 5,096 | 5,283 | 80.81 | Zone 4 |
| H-13-PH1 | 0 | 5,096 | 5,283 | 80.91 | Zone 4 |
| J-485 | 9.75 | 5,096 | 5,283 | 80.97 | Zone 4 |
| J-23-1207 | 2.08 | 5,096 | 5,283 | 80.99 | Zone 4 |
| J-325 | 7.26 | 5,096 | 5,283 | 81.03 | Zone 4 |
| H-11-PH1 | 0 | 5,096 | 5,283 | 81.05 | Zone 4 |
| J-762 | 0 | 5,096 | 5,283 | 81.06 | Zone 4 |
| J22-1072 | 0 | 5,096 | 5,283 | 81.06 | Zone 4 |
| J-669 | 0 | 5,096 | 5,283 | 81.14 | Zone 4 |
| J-1275 | 0 | 5,095 | 5,283 | 81.2 | Zone 4 |
| J-776 | 4.15 | 5,095 | 5,283 | 81.2 | Zone 4 |
| H-14-PH1 | 0 | 5,095 | 5,283 | 81.22 | Zone 4 |
| J22-874 | 0.83 | 5,095 | 5,283 | 81.23 | Zone 4 |
| J-444 | 0 | 5,137 | 5,324 | 81.27 | Zone 3 |
| J-670 | 0 | 5,095.24 | 5,282.82 | 81.28 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.85 | 81.28 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,282.84 | 81.28 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,282.85 | 81.32 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.81 | 81.38 | Zone 4 |
| J22-1087 | 7.55 | 5,094.99 | 5,282.85 | 81.4 | Zone 4 |
| J-448 | 7.06 | 5,134.46 | 5,322.48 | 81.47 | Zone 1 |
| J-431 | 2.08 | 5,094.71 | 5,282.75 | 81.48 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,282.81 | 81.5 | Zone 4 |
| J-206 | 4.15 | 5,094.63 | 5,282.75 | 81.51 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,282.75 | 81.59 | Zone 4 |
| J-771 | 7.89 | 5,094.49 | 5,282.81 | 81.6 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.80 | 81.62 | Zone 4 |
| J-23-1228 | 3.32 | 5,094.40 | 5,282.83 | 81.65 | Zone 4 |
| J-660 | 3.32 | 5,094.39 | 5,282.83 | 81.65 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.85 | 81.7 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,282.81 | 81.72 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,282.75 | 81.73 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,282.86 | 81.86 | Zone 4 |
| J-248 | 5.82 | 5,135.17 | 5,324.13 | 81.88 | Zone 3 |
| J-761 | 0 | 5,093.67 | 5,282.81 | 81.96 | Zone 4 |
| H-10-PH1 | 0 | 5,093.60 | 5,282.81 | 81.99 | Zone 4 |
| J-657 | 4.15 | 5,093.38 | 5,282.83 | 82.09 | Zone 4 |
| J-775 | 4.15 | 5,093.32 | 5,282.81 | 82.11 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,324.13 | 82.13 | Zone 3 |
| FH-917 | 0 | 5,093.28 | 5,282.84 | 82.14 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-23-1212 | 1.66 | 5,093.24 | 5,282.90 | 82.18 | Zone 4 |
| J-662 | 4.15 | 5,092.99 | 5,282.85 | 82.27 | Zone 4 |
| J22-1088 | 2.78 | 5,092.98 | 5,282.90 | 82.29 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,282.81 | 82.33 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.90 | 82.34 | Zone 4 |
| J22-880 | 1.25 | 5,092.85 | 5,282.90 | 82.35 | Zone 4 |
| PH22-FH18 | 0 | 5,092.73 | 5,282.90 | 82.4 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.82 | 82.44 | Zone 4 |
| J-207 | 4.15 | 5,092.46 | 5,282.75 | 82.45 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.87 | 82.49 | Zone 4 |
| 2-IRR-11 | 0 | 5,092.39 | 5,282.91 | 82.55 | Zone 4 |
| J-658 | 6.23 | 5,092.30 | 5,282.83 | 82.56 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,282.75 | 82.62 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.82 | 82.65 | Zone 4 |
| 4-VILLAGE | 4.77 | 5,092.08 | 5,282.86 | 82.66 | Zone 4 |
| J-23-1208 | 2.91 | 5,092.02 | 5,282.82 | 82.67 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,282.82 | 82.73 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,282.82 | 82.74 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,282.75 | 82.75 | Zone 4 |
| J-655 | 4.15 | 5,091.87 | 5,282.86 | 82.76 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,283.26 | 82.76 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,282.84 | 82.81 | Zone 4 |
| J-466 | 6.23 | 5,091.59 | 5,282.85 | 82.88 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,282.84 | 82.92 | Zone 4 |
| J-306 | 5.13 | 5,133.61 | 5,324.97 | 82.92 | Zone 1 |
| J-198 | 5.4 | 5,091.35 | 5,282.75 | 82.94 | Zone 4 |
| J-23-1216 | 1.25 | 5,091.71 | 5,283.12 | 82.94 | Zone 4 |
| J-454 | 4.99 | 5,091.37 | 5,282.87 | 82.98 | Zone 4 |
| J-664 | 3.74 | 5,091.23 | 5,282.87 | 83.04 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,282.84 | 83.04 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,283.12 | 83.07 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,282.86 | 83.1 | Zone 4 |
| J-5 | 5.13 | 5,133.16 | 5,324.97 | 83.11 | Zone 1 |
| AV-2 | 0 | 5,091.29 | 5,283.12 | 83.12 | Zone 4 |
| J-23-1215 | 0.83 | 5,091.25 | 5,283.09 | 83.12 | Zone 4 |
| J-23-1219 | 0.83 | 5,091.11 | 5,283.12 | 83.2 | Zone 4 |
| FH-916 | 0 | 5,091 | 5,283 | 83.21 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,283.21 | 83.32 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.85 | 83.35 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,283.14 | 83.37 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,283.18 | 83.4 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.96 | 83.42 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.95 | 83.49 | Zone 4 |
| J-453 | 7.06 | 5,090.15 | 5,282.88 | 83.51 | Zone 4 |
| J-23-1213 | 2.49 | 5,090.32 | 5,283.06 | 83.51 | Zone 4 |
| J-23-1214 | 0.42 | 5,090.30 | 5,283.07 | 83.53 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J22-882 | 1.66 | 5,090.19 | 5,282.97 | 83.53 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.86 | 83.55 | Zone 4 |
| PH22-FH1 | 0 | 5,090.10 | 5,282.96 | 83.57 | Zone 4 |
| J-661 | 3.74 | 5,089.72 | 5,282.85 | 83.68 | Zone 4 |
| J-199 | 5.82 | 5,089.28 | 5,282.75 | 83.83 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.86 | 83.88 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.87 | 84 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,282.89 | 84.09 | Zone 4 |
| J-663 | 0 | 5,089 | 5,283 | 84.12 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.88 | 84.15 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.94 | 84.36 | Zone 4 |
| J-324 | 2.08 | 5,087.57 | 5,282.79 | 84.59 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,282.91 | 84.69 | Zone 4 |
| J-200 | 5.82 | 5,087.30 | 5,282.75 | 84.69 | Zone 4 |
| LEMSCH | 9.54 | 5,087.43 | 5,282.95 | 84.72 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,282.95 | 84.76 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,282.95 | 84.79 | Zone 4 |
| 17CSELEN | 0 | 5,087.23 | 5,282.95 | 84.81 | Zone 4 |
| J-440 | 2.49 | 5,086.88 | 5,282.76 | 84.88 | Zone 4 |
| J-478 | 3.32 | 5,086.54 | 5,282.94 | 85.1 | Zone 4 |
| J-438 | 5.4 | 5,086.25 | 5,282.76 | 85.15 | Zone 4 |
| J-474 | 3.32 | 5,086.26 | 5,282.93 | 85.22 | Zone 4 |
| J-460 | 5.4 | 5,086.01 | 5,282.96 | 85.34 | Zone 4 |
| J-201 | 5.82 | 5,085.59 | 5,282.75 | 85.43 | Zone 4 |
| J-407 | 2.08 | 5,085.64 | 5,282.97 | 85.51 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.96 | 85.59 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,282.96 | 85.7 | Zone 4 |
| J22-902 | 4.77 | 5,085.12 | 5,282.96 | 85.72 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,282.76 | 85.75 | Zone 4 |
| J-475 | 3.74 | 5,084.82 | 5,282.95 | 85.85 | Zone 4 |
| J-202 | 4.99 | 5,084.62 | 5,282.75 | 85.85 | Zone 4 |
| J-408 | 4.99 | 5,084.71 | 5,282.97 | 85.9 | Zone 4 |
| J-280 | 3.32 | 5,084.28 | 5,282.76 | 86 | Zone 4 |
| ERTOWNC | 2.98 | 5,124.46 | 5,322.96 | 86.01 | Zone 1 |
| J22-1091 | 0 | 5,084.24 | 5,282.96 | 86.1 | Zone 4 |
| PH22-FH1 | 0 | 5,084.13 | 5,282.96 | 86.15 | Zone 4 |
| J-285 | 4.99 | 5,083.77 | 5,282.76 | 86.22 | Zone 4 |
| J-387 | 0 | 5,125.58 | 5,324.98 | 86.4 | Zone 1 |
| J-476 | 3.32 | 5,083.43 | 5,282.96 | 86.46 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.97 | 86.46 | Zone 4 |
| J-409 | 2.49 | 5,083.24 | 5,282.97 | 86.54 | Zone 4 |
| J-646 | 10.27 | 5,122.90 | 5,322.64 | 86.55 | Zone 1 |
| J-323 | 7.68 | 5,083.06 | 5,282.80 | 86.55 | Zone 4 |
| J-282 | 4.57 | 5,082.97 | 5,282.76 | 86.57 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,282.77 | 86.75 | Zone 4 |
| J-208 | 4.15 | 5,082.50 | 5,282.76 | 86.77 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-471 | 6.23 | 5,082.54 | 5,282.88 | 86.81 | Zone 4 |
| J-273 | 2.91 | 5,082.46 | 5,282.87 | 86.84 | Zone 4 |
| J-461 | 6.23 | 5,082.44 | 5,282.96 | 86.89 | Zone 4 |
| J-473 | 4.99 | 5,082.14 | 5,282.86 | 86.97 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,282.76 | 86.99 | Zone 4 |
| J-477 | 3.32 | 5,082.15 | 5,282.96 | 87.01 | Zone 4 |
| J-459 | 3.74 | 5,081.68 | 5,282.96 | 87.21 | Zone 4 |
| J-215 | 8.92 | 5,081.17 | 5,282.75 | 87.34 | Zone 4 |
| J-653 | 6.42 | 5,121.04 | 5,322.64 | 87.35 | Zone 1 |
| J-410 | 2.91 | 5,081.37 | 5,282.98 | 87.36 | Zone 4 |
| J-424 | 2.78 | 5,081.15 | 5,282.96 | 87.44 | Zone 4 |
| J-405 | 3.32 | 5,081.06 | 5,282.97 | 87.49 | Zone 4 |
| J-271 | 4.57 | 5,080.96 | 5,282.89 | 87.49 | Zone 4 |
| J-320 | 4.77 | 5,080.78 | 5,282.86 | 87.56 | Zone 4 |
| J-586 | 9.54 | 5,080.67 | 5,282.77 | 87.57 | Zone 4 |
| J-462 | 7.48 | 5,080.60 | 5,282.97 | 87.69 | Zone 4 |
| J-272 | 2.91 | 5,080.44 | 5,282.87 | 87.72 | Zone 4 |
| J-417 | 4.99 | 5,080.47 | 5,282.98 | 87.74 | Zone 4 |
| J-214 | 4.15 | 5,080.16 | 5,282.75 | 87.78 | Zone 4 |
| J-321 | 2.49 | 5,080.22 | 5,282.86 | 87.81 | Zone 4 |
| J-270 | 4.57 | 5,080.13 | 5,282.88 | 87.85 | Zone 4 |
| J-472 | 4.57 | 5,079.93 | 5,282.87 | 87.93 | Zone 4 |
| J-411 | 2.91 | 5,079.96 | 5,282.98 | 87.97 | Zone 4 |
| J-249 | 4.57 | 5,120.99 | 5,324.14 | 88.03 | Zone 3 |
| J-645 | 0 | 5,119.46 | 5,322.66 | 88.05 | Zone 1 |
| J-404 | 3.32 | 5,079.68 | 5,282.98 | 88.09 | Zone 4 |
| J-191 | 8.12 | 5,121.58 | 5,325.05 | 88.17 | Zone 1 |
| J-420 | 0 | 5,079.50 | 5,282.98 | 88.17 | Zone 4 |
| J-458 | 4.15 | 5,079.24 | 5,282.96 | 88.27 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,282.88 | 88.37 | Zone 4 |
| J-239 | 4.15 | 5,078.79 | 5,282.75 | 88.38 | Zone 4 |
| J-277 | 4.99 | 5,078.88 | 5,282.88 | 88.39 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.97 | 88.41 | Zone 4 |
| J-418 | 4.57 | 5,078.88 | 5,282.98 | 88.44 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,282.83 | 88.49 | Zone 4 |
| J-447 | 5.13 | 5,118.19 | 5,322.48 | 88.52 | Zone 1 |
| J-412 | 2.91 | 5,078.68 | 5,282.99 | 88.53 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,324.15 | 88.56 | Zone 3 |
| J-403 | 2.91 | 5,078.53 | 5,282.98 | 88.59 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,324.97 | 88.64 | Zone 1 |
| J-279 | 3.74 | 5,078.05 | 5,282.87 | 88.75 | Zone 4 |
| J-587 | 4.77 | 5,078.13 | 5,282.97 | 88.76 | Zone 4 |
| J-269 | 4.15 | 5,077.78 | 5,282.87 | 88.86 | Zone 4 |
| J-212 | 3.74 | 5,077.48 | 5,282.75 | 88.94 | Zone 4 |
| J-426 | 4.57 | 5,077.65 | 5,282.97 | 88.97 | Zone 4 |
| J-264 | 4.15 | 5,077.35 | 5,282.78 | 89.01 | Zone 4 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-413 | 2.91 | 5,077.49 | 5,283.01 | 89.05 | Zone 4 |
| J-425 | 1.66 | 5,077.39 | 5,282.97 | 89.08 | Zone 4 |
| J-402 | 3.32 | 5,077.13 | 5,282.99 | 89.2 | Zone 4 |
| J-231 | 4.15 | 5,076.71 | 5,282.79 | 89.29 | Zone 4 |
| J-276 | 5.82 | 5,076.67 | 5,282.89 | 89.35 | Zone 4 |
| J-230 | 4.15 | 5,076.30 | 5,282.78 | 89.47 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.99 | 89.49 | Zone 4 |
| J-226 | 4.15 | 5,075.95 | 5,282.77 | 89.61 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,283.03 | 89.64 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,283.00 | 89.69 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.88 | 89.75 | Zone 4 |
| J-401 | 3.74 | 5,075.73 | 5,283.01 | 89.81 | Zone 4 |
| J-295 | 5.4 | 5,075.72 | 5,283.00 | 89.82 | Zone 4 |
| J-278 | 4.99 | 5,075.57 | 5,282.89 | 89.83 | Zone 4 |
| J-436 | 5.4 | 5,075.48 | 5,282.83 | 89.84 | Zone 4 |
| J-644 | 10.91 | 5,115.23 | 5,322.67 | 89.88 | Zone 1 |
| J-415 | 0 | 5,075.53 | 5,282.98 | 89.89 | Zone 4 |
| J-296 | 4.57 | 5,075.50 | 5,283.00 | 89.91 | Zone 4 |
| J-228 | 4.15 | 5,075.04 | 5,282.77 | 90.01 | Zone 4 |
| J-315 | 5.82 | 5,075.27 | 5,283.01 | 90.02 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,282.89 | 90.13 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,282.76 | 90.27 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,283.01 | 90.31 | Zone 4 |
| J-400 | 3.32 | 5,074.49 | 5,283.03 | 90.36 | Zone 4 |
| J-294 | 3.74 | 5,074.33 | 5,283.00 | 90.42 | Zone 4 |
| J-254 | 2.91 | 5,074.06 | 5,282.76 | 90.43 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,282.80 | 90.44 | Zone 4 |
| J-316 | 9.75 | 5,074.16 | 5,283.01 | 90.49 | Zone 4 |
| J-328 | 0 | 5,113.60 | 5,322.48 | 90.51 | Zone 1 |
| J-303 | 2.08 | 5,074.07 | 5,282.96 | 90.51 | Zone 4 |
| J-312 | 5.82 | 5,073.95 | 5,283.03 | 90.6 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,325.00 | 90.74 | Zone 1 |
| J-435 | 0 | 5,073.19 | 5,282.79 | 90.82 | Zone 4 |
| J-308 | 6.65 | 5,073.29 | 5,283.07 | 90.89 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.93 | 90.91 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,283.03 | 90.94 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,282.83 | 90.96 | Zone 4 |
| J-233 | 4.77 | 5,072.79 | 5,282.79 | 90.99 | Zone 4 |
| J-266 | 3.74 | 5,072.93 | 5,282.96 | 91.01 | Zone 4 |
| J-260 | 2.49 | 5,072.80 | 5,282.88 | 91.03 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,282.78 | 91.09 | Zone 4 |
| J-313 | 4.99 | 5,072.76 | 5,283.03 | 91.11 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,282.77 | 91.2 | Zone 4 |
| J-310 | 5.82 | 5,072.34 | 5,283.06 | 91.31 | Zone 4 |
| J-309 | 4.15 | 5,072.32 | 5,283.06 | 91.32 | Zone 4 |
| J-259 | 2.49 | 5,072.01 | 5,282.93 | 91.39 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-227 | 0 | 5,071.72 | 5,282.77 | 91.45 | Zone 4 |
| J-300 | 3.32 | 5,071.64 | 5,283.06 | 91.61 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,282.77 | 91.68 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,283.06 | 91.7 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,282.93 | 91.7 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.88 | 91.71 | Zone 4 |
| J-263 | 9.21 | 5,070.85 | 5,282.82 | 91.85 | Zone 4 |
| J-307 | 5.82 | 5,070.23 | 5,283.08 | 92.23 | Zone 4 |
| J-319 | 4.77 | 5,070.24 | 5,283.13 | 92.24 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,324.17 | 92.26 | Zone 3 |
| J-261 | 2.08 | 5,069.91 | 5,282.88 | 92.28 | Zone 4 |
| J-302 | 4.15 | 5,069.92 | 5,283.11 | 92.37 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,283.12 | 92.44 | Zone 4 |
| J-343 | 5.77 | 5,108.61 | 5,322.46 | 92.66 | Zone 1 |
| J-251 | 8.31 | 5,069.14 | 5,283.10 | 92.71 | Zone 4 |
| J-159 | 7.06 | 5,108.44 | 5,322.46 | 92.74 | Zone 1 |
| J-219 | 3.74 | 5,068.69 | 5,282.77 | 92.76 | Zone 4 |
| J-252 | 4.77 | 5,069.06 | 5,283.23 | 92.8 | Zone 4 |
| J-250 | 4.57 | 5,067.75 | 5,283.01 | 93.27 | Zone 4 |
| J-223 | 4.15 | 5,067.34 | 5,282.77 | 93.35 | Zone 4 |
| J-247 | 10.39 | 5,067.68 | 5,283.16 | 93.37 | Zone 4 |
| J-137 | 4.57 | 5,108.67 | 5,324.18 | 93.38 | Zone 3 |
| J-238 | 4.15 | 5,067.17 | 5,282.77 | 93.42 | Zone 4 |
| J-334 | 0 | 5,106.04 | 5,322.48 | 93.78 | Zone 1 |
| J-220 | 4.15 | 5,066.08 | 5,282.77 | 93.89 | Zone 4 |
| J-221 | 4.15 | 5,066.06 | 5,282.77 | 93.9 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,322.79 | 94.53 | Zone 1 |
| J-333 | 6.42 | 5,104.15 | 5,322.48 | 94.6 | Zone 1 |
| J-25 | 0 | 5,104.44 | 5,322.82 | 94.62 | Zone 1 |
| J-648 | 3.21 | 5,103.71 | 5,322.64 | 94.86 | Zone 1 |
| J-160 | 5.77 | 5,103.31 | 5,322.46 | 94.96 | Zone 1 |
| J-329 | 5.13 | 5,103.30 | 5,322.48 | 94.97 | Zone 1 |
| J-603 | 6.42 | 5,102.70 | 5,322.63 | 95.3 | Zone 1 |
| J-27 | 0 | 5,101.81 | 5,322.58 | 95.66 | Zone 1 |
| J-647 | 6.42 | 5,100.91 | 5,322.64 | 96.08 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,286.32 | 96.31 | Zone 4 |
| J-23 | 3.85 | 5,102.29 | 5,324.76 | 96.39 | Zone 1 |
| J-446 | 5.13 | 5,099.26 | 5,322.48 | 96.72 | Zone 1 |
| J-595 | 2.57 | 5,099.13 | 5,322.76 | 96.9 | Zone 1 |
| J-136 | 12.05 | 5,100.47 | 5,324.33 | 97 | Zone 3 |
| J-332 | 0 | 5,097.85 | 5,322.48 | 97.33 | Zone 1 |
| J-340 | 3.85 | 5,096.75 | 5,322.46 | 97.8 | Zone 1 |
| J-330 | 4.49 | 5,096.35 | 5,322.48 | 97.98 | Zone 1 |
| J-606 | 8.98 | 5,096.31 | 5,322.66 | 98.08 | Zone 1 |
| J-135 | 14.13 | 5,097.88 | 5,324.47 | 98.18 | Zone 3 |
| J-592 | 8.34 | 5,095.57 | 5,322.69 | 98.41 | Zone 1 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-445 | 0 | 5,095.13 | 5,322.48 | 98.51 | Zone 1 |
| J-166 | 5.13 | 5,093.26 | 5,322.46 | 99.31 | Zone 1 |
| J-6 | 5.13 | 5,094.60 | 5,324.94 | 99.81 | Zone 1 |
| J-336 | 5.13 | 5,090.75 | 5,322.47 | 100.41 | Zone 1 |
| J-327 | 7.06 | 5,089.27 | 5,322.48 | 101.05 | Zone 1 |
| J-590 | 5.77 | 5,088.31 | 5,322.67 | 101.55 | Zone 1 |
| J-341 | 0 | 5,087.54 | 5,322.47 | 101.79 | Zone 1 |
| J-604 | 3.85 | 5,086.47 | 5,322.64 | 102.33 | Zone 1 |
| J-597 | 7.7 | 5,085.96 | 5,322.64 | 102.55 | Zone 1 |
| J-339 | 4.49 | 5,085.67 | 5,322.47 | 102.6 | Zone 1 |
| J-289 | 5.13 | 5,087.80 | 5,324.95 | 102.76 | Zone 1 |
| J-342 | 0 | 5,082.46 | 5,322.47 | 103.99 | Zone 1 |
| J-161 | 5.77 | 5,082.45 | 5,322.46 | 104 | Zone 1 |
| J-427 | 6.42 | 5,082.41 | 5,322.48 | 104.02 | Zone 1 |
| J-589 | 7.7 | 5,082.17 | 5,322.67 | 104.21 | Zone 1 |
| J-594 | 0 | 5,079.25 | 5,322.63 | 105.46 | Zone 1 |
| J-331 | 5.77 | 5,079.08 | 5,322.49 | 105.47 | Zone 1 |
| J-337 | 9.62 | 5,077.64 | 5,322.48 | 106.09 | Zone 1 |
| J-588 | 5.77 | 5,077.31 | 5,322.67 | 106.32 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,322.67 | 106.62 | Zone 1 |
| J-385 | 5.12 | 5,076.49 | 5,322.65 | 106.66 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,291.02 | 106.71 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.92 | 106.72 | Zone 4 |
| J-162 | 6.42 | 5,074.91 | 5,322.47 | 107.27 | Zone 1 |
| J-305 | 5.13 | 5,077.07 | 5,324.86 | 107.37 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,322.50 | 108.06 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,291.67 | 108.18 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,292.45 | 108.95 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,292.70 | 109.07 | Zone 4 |
| J-304 | 5.13 | 5,072.38 | 5,324.86 | 109.4 | Zone 1 |
| J-150 | 5.77 | 5,066.84 | 5,322.57 | 110.81 | Zone 1 |
| J-151 | 3.85 | 5,065.12 | 5,322.56 | 111.55 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,322.47 | 113.48 | Zone 1 |
| J-158 | 12.83 | 5,060.32 | 5,322.47 | 113.59 | Zone 1 |
| J-164 | 8.98 | 5,059.45 | 5,322.52 | 113.99 | Zone 1 |
| J-163 | 8.34 | 5,058.71 | 5,322.50 | 114.3 | Zone 1 |
| J-152 | 6.42 | 5,058.73 | 5,322.57 | 114.32 | Zone 1 |
| J-165 | 13.47 | 5,057.28 | 5,322.48 | 114.91 | Zone 1 |
| J-153 | 5.77 | 5,056.40 | 5,322.57 | 115.33 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,322.62 | 115.99 | Zone 1 |
| J-154 | 8.97 | 5,053.62 | 5,322.57 | 116.54 | Zone 1 |
| J-8 | 5.13 | 5,054.92 | 5,324.92 | 116.99 | Zone 1 |
| J-155 | 5.13 | 5,051.81 | 5,322.57 | 117.32 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,322.62 | 117.68 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,322.62 | 117.85 | Zone 1 |
| J-10 | 5.13 | 5,052.43 | 5,324.71 | 117.98 | Zone 1 |

GBWC-CSD Existing MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-611 | 4.49 | 5,049.06 | 5,322.66 | 118.55 | Zone 1 |
| J-9 | 5.13 | 5,049.50 | 5,324.79 | 119.28 | Zone 1 |
| J-612 | 6.83 | 5,047.26 | 5,322.66 | 119.33 | Zone 1 |
| J-47 | 7.7 | 5,043.03 | 5,322.83 | 121.24 | Zone 1 |
| J-48 | 9.62 | 5,042.96 | 5,322.81 | 121.26 | Zone 1 |
| J-49 | 9.62 | 5,042.76 | 5,322.80 | 121.34 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,323.05 | 122.15 | Zone 1 |
| J-1252IRF | 8.1 | 5,040.67 | 5,322.99 | 122.33 | Zone 1 |
| J-35 | 7.06 | 5,040.53 | 5,322.92 | 122.36 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,323.05 | 122.52 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,323.05 | 122.59 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,323.05 | 122.75 | Zone 1 |
| J-13 | 5.12 | 5,039.32 | 5,323.05 | 122.94 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,323.62 | 123.85 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,324.27 | 125.58 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.75 | Zone 4 |
| J-243 | 0 | 5,266 | 5,324 | 24.9 | Zone 3 |
| J-742 | 0 | 5,189 | 5,282 | 39.97 | Zone 4 |
| J-760 | 0 | 5,189 | 5,282 | 40.04 | Zone 4 |
| J-241 | 0 | 5,189 | 5,282 | 40.08 | Zone 4 |
| H-5-PH18 | 0 | 5,189 | 5,282 | 40.22 | Zone 4 |
| J-743 | 8 | 5,188 | 5,282 | 40.4 | Zone 4 |
| H-9-PH19 | 0 | 5,188 | 5,282 | 40.67 | Zone 4 |
| J-759 | 0 | 5,187 | 5,282 | 40.85 | Zone 4 |
| J-127 | 13.45 | 5,087 | 5,182 | 41.18 | Zone 2 |
| J-747 | 6.54 | 5,186 | 5,282 | 41.41 | Zone 4 |
| H-8-PH19 | 0 | 5,185 | 5,282 | 41.8 | Zone 4 |
| J-749 | 0 | 5,185 | 5,282 | 41.98 | Zone 4 |
| J-33 | 0 | 5,085 | 5,182 | 41.99 | Zone 2 |
| H-7-PH19 | 0 | 5,184 | 5,282 | 42.22 | Zone 4 |
| J-746 | 0 | 5,184 | 5,282 | 42.37 | Zone 4 |
| J-751 | 5.82 | 5,183 | 5,282 | 42.68 | Zone 4 |
| J-79 | 35.86 | 5,083 | 5,182 | 42.95 | Zone 2 |
| J-87 | 10.76 | 5,083 | 5,182 | 43.14 | Zone 2 |
| J-77 | 11.65 | 5,082 | 5,182 | 43.35 | Zone 2 |
| J-128 | 15.24 | 5,082 | 5,182 | 43.61 | Zone 2 |
| J-78 | 0 | 5,081 | 5,182 | 43.84 | Zone 2 |
| J-129 | 0 | 5,081 | 5,182 | 43.86 | Zone 2 |
| J-75 | 7.17 | 5,081 | 5,182 | 44.08 | Zone 2 |
| J-126 | 14.34 | 5,080 | 5,182 | 44.25 | Zone 2 |
| J-65 | 9.86 | 5,080 | 5,182 | 44.47 | Zone 2 |
| J-480 | 0 | 5,179 | 5,282 | 44.53 | Zone 4 |
| J-80 | 0 | 5,079 | 5,182 | 44.66 | Zone 2 |
| J-88 | 12.55 | 5,079 | 5,182 | 44.76 | Zone 2 |
| J-125 | 0 | 5,078 | 5,182 | 44.97 | Zone 2 |
| J-64 | 9.86 | 5,078 | 5,182 | 44.98 | Zone 2 |
| J-397 | 8.72 | 5,177 | 5,282 | 45.24 | Zone 4 |
| J-83 | 10.76 | 5,077 | 5,182 | 45.4 | Zone 2 |
| J-130 | 13.45 | 5,077 | 5,182 | 45.42 | Zone 2 |
| J-396 | 10.18 | 5,177 | 5,282 | 45.46 | Zone 4 |
| H-6-PH19 | 0 | 5,176 | 5,282 | 45.61 | Zone 4 |
| J-753 | 7.27 | 5,175 | 5,282 | 45.98 | Zone 4 |
| J-82 | 0 | 5,076 | 5,182 | 46.03 | Zone 2 |
| J-240 | 0 | 5,076 | 5,182 | 46.1 | Zone 2 |
| J-133 | 17.93 | 5,075 | 5,182 | 46.37 | Zone 2 |
| J-76 | 4.48 | 5,075 | 5,182 | 46.63 | Zone 2 |
| J-84 | 12.55 | 5,074 | 5,182 | 46.74 | Zone 2 |
| PH19IRR | 0 | 5,174 | 5,282 | 46.8 | Zone 4 |
| J-398 | 8.34 | 5,173 | 5,282 | 46.84 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,282 | 46.87 | Zone 4 |
| J-89 | 0 | 5,074 | 5,182 | 46.9 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-132 | 0 | 5,074 | 5,182 | 47.09 | Zone 2 |
| J-752 | 7.27 | 5,173 | 5,282 | 47.12 | Zone 4 |
| J-66 | 12.55 | 5,073 | 5,182 | 47.41 | Zone 2 |
| SELEMSC | 8.96 | 5,073 | 5,182 | 47.46 | Zone 2 |
| J-131 | 17.93 | 5,073 | 5,182 | 47.47 | Zone 2 |
| J-81 | 17.93 | 5,073 | 5,182 | 47.49 | Zone 2 |
| J-90 | 10.76 | 5,072 | 5,182 | 47.57 | Zone 2 |
| J-134 | 0 | 5,072 | 5,182 | 47.64 | Zone 2 |
| J-98 | 0 | 5,072 | 5,182 | 47.82 | Zone 2 |
| J-93 | 0 | 5,072 | 5,182 | 47.88 | Zone 2 |
| J-85 | 11.65 | 5,072 | 5,182 | 47.94 | Zone 2 |
| J-124 | 0 | 5,072 | 5,182 | 47.97 | Zone 2 |
| J-91 | 0 | 5,071 | 5,182 | 48.01 | Zone 2 |
| J-44 | 17.03 | 5,071 | 5,182 | 48.36 | Zone 2 |
| J-355 | 0 | 5,071 | 5,182 | 48.37 | Zone 2 |
| J-92 | 13.45 | 5,070 | 5,182 | 48.52 | Zone 2 |
| J-99 | 0 | 5,070 | 5,182 | 48.62 | Zone 2 |
| J-120 | 17.93 | 5,069 | 5,182 | 48.9 | Zone 2 |
| J-234 | 5.09 | 5,211 | 5,324 | 48.96 | Zone 3 |
| J-40 | 17.03 | 5,069 | 5,182 | 49.02 | Zone 2 |
| J-45 | 14.34 | 5,069 | 5,182 | 49.02 | Zone 2 |
| J-115 | 11.65 | 5,068 | 5,182 | 49.4 | Zone 2 |
| J-95 | 17.03 | 5,068 | 5,182 | 49.56 | Zone 2 |
| J-86 | 0 | 5,068 | 5,182 | 49.64 | Zone 2 |
| J-106 | 15.24 | 5,067 | 5,182 | 49.8 | Zone 2 |
| J-121 | 0 | 5,067 | 5,182 | 49.91 | Zone 2 |
| J-109 | 8.96 | 5,067 | 5,182 | 50.02 | Zone 2 |
| J-96 | 14.34 | 5,067 | 5,182 | 50.07 | Zone 2 |
| J-105 | 0 | 5,066 | 5,182 | 50.22 | Zone 2 |
| J-62 | 8.96 | 5,066 | 5,182 | 50.29 | Zone 2 |
| J-67 | 14.34 | 5,066 | 5,182 | 50.33 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,281 | 50.34 | Zone 4 |
| J-108 | 12.55 | 5,066 | 5,182 | 50.34 | Zone 2 |
| J-119 | 8.96 | 5,066 | 5,182 | 50.39 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,182 | 50.52 | Zone 2 |
| J-118 | 9.86 | 5,066 | 5,182 | 50.53 | Zone 2 |
| J-481 | 0 | 5,165 | 5,281 | 50.55 | Zone 4 |
| J-755 | 7.27 | 5,165 | 5,281 | 50.58 | Zone 4 |
| J-1 | 0 | 5,206 | 5,323 | 50.58 | Zone 1 |
| J-104 | 11.65 | 5,065 | 5,182 | 50.68 | Zone 2 |
| J-103 | 9.86 | 5,065 | 5,182 | 50.75 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,182 | 50.77 | Zone 2 |
| J-114 | 14.34 | 5,065 | 5,182 | 50.78 | Zone 2 |
| J-70 | 6.28 | 5,065 | 5,182 | 50.82 | Zone 2 |
| J-123 | 14.34 | 5,065 | 5,182 | 50.9 | Zone 2 |
| J-110 | 22.41 | 5,065 | 5,182 | 50.95 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-97 | 0 | 5,064 | 5,182 | 51.1 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,282 | 51.12 | Zone 4 |
| J-39 | 14.34 | 5,064 | 5,182 | 51.26 | Zone 2 |
| J-117 | 0 | 5,064 | 5,182 | 51.38 | Zone 2 |
| J-744 | 0 | 5,163 | 5,282 | 51.47 | Zone 4 |
| J-122 | 12.55 | 5,063 | 5,182 | 51.49 | Zone 2 |
| J-38 | 16.14 | 5,063 | 5,182 | 51.54 | Zone 2 |
| J-116 | 12.55 | 5,063 | 5,182 | 51.66 | Zone 2 |
| J-756 | 7.27 | 5,162 | 5,282 | 51.69 | Zone 4 |
| J-235 | 0 | 5,204 | 5,324 | 51.85 | Zone 3 |
| J-111 | 16.14 | 5,063 | 5,182 | 51.86 | Zone 2 |
| J-275 | 12.55 | 5,062 | 5,182 | 52.04 | Zone 2 |
| J-2 | 0 | 5,202 | 5,322 | 52.12 | Zone 1 |
| J-237 | 5.82 | 5,202 | 5,324 | 52.56 | Zone 3 |
| J-395 | 7.27 | 5,159 | 5,281 | 52.89 | Zone 4 |
| J-73 | 0 | 5,060 | 5,182 | 52.91 | Zone 2 |
| J-100 | 11.65 | 5,060 | 5,183 | 53.28 | Zone 2 |
| J-101 | 0 | 5,059 | 5,183 | 53.36 | Zone 2 |
| J-61 | 16.14 | 5,059 | 5,182 | 53.55 | Zone 2 |
| J-394 | 10.18 | 5,158 | 5,281 | 53.6 | Zone 4 |
| J-392 | 10.18 | 5,158 | 5,281 | 53.62 | Zone 4 |
| J-185 | 0 | 5,199 | 5,324 | 53.92 | Zone 3 |
| J-74 | 15.24 | 5,058 | 5,182 | 54.1 | Zone 2 |
| J-72 | 19.72 | 5,057 | 5,182 | 54.3 | Zone 2 |
| J-17 | 0 | 5,057 | 5,183 | 54.4 | Zone 2 |
| J-60 | 14.34 | 5,057 | 5,182 | 54.47 | Zone 2 |
| J-112 | 18.83 | 5,057 | 5,182 | 54.48 | Zone 2 |
| J-102 | 17.93 | 5,056 | 5,183 | 54.74 | Zone 2 |
| J-71 | 0 | 5,056 | 5,183 | 54.87 | Zone 2 |
| J-274 | 8.96 | 5,055 | 5,182 | 54.93 | Zone 2 |
| J-59 | 8.96 | 5,057 | 5,184 | 55.04 | Zone 2 |
| J-399 | 0 | 5,154 | 5,281 | 55.26 | Zone 4 |
| J-43 | 8.96 | 5,055 | 5,183 | 55.42 | Zone 2 |
| J-157 | 0 | 5,054 | 5,182 | 55.54 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,281 | 55.6 | Zone 4 |
| J-113 | 3.59 | 5,054 | 5,182 | 55.64 | Zone 2 |
| WELL7 | 0 | 5,200 | 5,329 | 55.89 | Zone 1 |
| J-758 | 7.27 | 5,152 | 5,281 | 55.94 | Zone 4 |
| J-57 | 12.55 | 5,053 | 5,183 | 56.33 | Zone 2 |
| PH19IRR | 0 | 5,151 | 5,281 | 56.58 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,281 | 56.59 | Zone 4 |
| J-69 | 0 | 5,051 | 5,182 | 56.83 | Zone 2 |
| J-757 | 7.27 | 5,150 | 5,281 | 56.92 | Zone 4 |
| J-37 | 0 | 5,052 | 5,183 | 57.01 | Zone 2 |
| J-68 | 12.55 | 5,050 | 5,182 | 57.22 | Zone 2 |
| J-16 | 0 | 5,050 | 5,183 | 57.35 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-192 | 5.22 | 5,189 | 5,322 | 57.43 | Zone 1 |
| J-58 | 0 | 5,051 | 5,183 | 57.48 | Zone 2 |
| J-53 | 16.14 | 5,049 | 5,183 | 58.04 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 58.05 | Zone 2 |
| J-1246 | 0 | 5,049 | 5,184 | 58.28 | Zone 2 |
| J-393 | 8.72 | 5,147 | 5,281 | 58.37 | Zone 4 |
| J-391 | 7.27 | 5,146 | 5,281 | 58.56 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,327 | 58.91 | Zone 1 |
| J-63 | 18.67 | 5,047 | 5,183 | 58.99 | Zone 2 |
| J-55 | 10.76 | 5,047 | 5,184 | 59.32 | Zone 2 |
| J-50 | 10.76 | 5,046 | 5,183 | 59.33 | Zone 2 |
| FH-925 | 0 | 5,144 | 5,281 | 59.57 | Zone 4 |
| J-23-1188 | 2.18 | 5,143 | 5,281 | 59.73 | Zone 4 |
| J-805 | 0 | 5,045 | 5,183 | 59.77 | Zone 4 |
| H-21-PH1 | 0 | 5,045 | 5,183 | 59.94 | Zone 4 |
| J-255 | 0 | 5,045 | 5,184 | 60 | Zone 2 |
| J-140 | 18.9 | 5,185 | 5,324 | 60.01 | Zone 3 |
| J22-901 | 0 | 5,142 | 5,281 | 60.03 | Zone 4 |
| J-23-1197 | 0 | 5,142 | 5,281 | 60.08 | Zone 4 |
| J-51 | 8.07 | 5,045 | 5,183 | 60.09 | Zone 2 |
| J-23-1193 | 5.09 | 5,142 | 5,281 | 60.12 | Zone 4 |
| J-23-1190 | 1.45 | 5,142 | 5,281 | 60.12 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,281 | 60.14 | Zone 4 |
| J-23-1189 | 2.18 | 5,142 | 5,281 | 60.14 | Zone 4 |
| J-23-1187 | 1.45 | 5,142 | 5,281 | 60.2 | Zone 4 |
| J-482 | 0 | 5,142 | 5,281 | 60.24 | Zone 4 |
| J-830 | 0 | 5,141 | 5,281 | 60.35 | Zone 4 |
| J-3 | 0 | 5,179 | 5,319 | 60.41 | Zone 1 |
| J-56 | 16.14 | 5,044 | 5,184 | 60.42 | Zone 2 |
| J-15 | 10.44 | 5,045 | 5,184 | 60.56 | Zone 2 |
| J-193 | 8.98 | 5,175 | 5,316 | 60.74 | Zone 1 |
| ALLEYCHU | 17.91 | 5,043 | 5,184 | 60.76 | Zone 2 |
| J-52 | 6.28 | 5,043 | 5,183 | 60.76 | Zone 2 |
| J-194 | 13.45 | 5,043 | 5,183 | 60.79 | Zone 2 |
| J-42 | 5.22 | 5,043 | 5,184 | 60.79 | Zone 2 |
| J-1184 | 0 | 5,140 | 5,281 | 60.96 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,281 | 61.02 | Zone 4 |
| J-679 | 12.36 | 5,140 | 5,281 | 61.03 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,281 | 61.06 | Zone 4 |
| J-54 | 0 | 5,045 | 5,186 | 61.09 | Zone 2 |
| H-68-PH1 | 0 | 5,139 | 5,281 | 61.3 | Zone 4 |
| J-836 | 6.54 | 5,139 | 5,281 | 61.35 | Zone 4 |
| J-819 | 0 | 5,139 | 5,281 | 61.38 | Zone 4 |
| J-685 | 0 | 5,139 | 5,281 | 61.39 | Zone 4 |
| J-142 | 9.45 | 5,182 | 5,324 | 61.41 | Zone 3 |
| J-797 | 16.14 | 5,047 | 5,188 | 61.42 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-829 | 0 | 5,139 | 5,281 | 61.55 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,281 | 61.57 | Zone 4 |
| J-390 | 0 | 5,139 | 5,281 | 61.58 | Zone 4 |
| H-67-PH1 | 0 | 5,138 | 5,281 | 61.68 | Zone 4 |
| J-841 | 0 | 5,138 | 5,281 | 61.82 | Zone 4 |
| NDYKEW | 0 | 5,046 | 5,188 | 61.86 | Zone 2 |
| FH-921 | 0 | 5,138 | 5,281 | 61.92 | Zone 4 |
| 9RENOTR | 5.22 | 5,042 | 5,186 | 62.25 | Zone 2 |
| J-820 | 0 | 5,137 | 5,281 | 62.44 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,281 | 62.48 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,281 | 62.5 | Zone 4 |
| J-815 | 8.34 | 5,136 | 5,281 | 62.76 | Zone 4 |
| PH22-FH | 0 | 5,136 | 5,281 | 62.82 | Zone 4 |
| J-678 | 0 | 5,135 | 5,281 | 63.33 | Zone 4 |
| J-1262 | 5.22 | 5,172 | 5,318 | 63.38 | Zone 1 |
| J-352 | 9.45 | 5,134 | 5,281 | 63.68 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,281 | 63.96 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,281 | 64.11 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,281 | 64.13 | Zone 4 |
| J-810 | 0 | 5,133 | 5,281 | 64.24 | Zone 4 |
| J-816 | 8.72 | 5,132 | 5,281 | 64.4 | Zone 4 |
| J-730 | 0 | 5,131 | 5,281 | 64.77 | Zone 4 |
| J-806 | 0 | 5,131 | 5,281 | 64.84 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,281 | 64.91 | Zone 4 |
| J-732 | 0 | 5,131 | 5,281 | 64.92 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,281 | 65.03 | Zone 4 |
| J-677 | 14.54 | 5,130 | 5,281 | 65.31 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,281 | 65.4 | Zone 4 |
| J-187 | 0 | 5,173 | 5,324 | 65.41 | Zone 3 |
| J-23-1195 | 2.18 | 5,130 | 5,281 | 65.41 | Zone 4 |
| J-23-1196 | 2.91 | 5,130 | 5,281 | 65.41 | Zone 4 |
| J-688 | 8.34 | 5,130 | 5,281 | 65.42 | Zone 4 |
| J-811 | 9.45 | 5,130 | 5,281 | 65.43 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,281 | 65.48 | Zone 4 |
| J-23-1194 | 3.64 | 5,130 | 5,281 | 65.52 | Zone 4 |
| J-807 | 8 | 5,129 | 5,281 | 65.74 | Zone 4 |
| J-687 | 0 | 5,129 | 5,281 | 65.76 | Zone 4 |
| J-23-1197 | 2.18 | 5,129 | 5,281 | 65.86 | Zone 4 |
| J-675 | 0 | 5,129 | 5,281 | 65.99 | Zone 4 |
| J-839 | 0 | 5,128 | 5,281 | 66.31 | Zone 4 |
| H-69-PH1 | 0 | 5,127 | 5,281 | 66.46 | Zone 4 |
| J-483 | 0 | 5,128 | 5,281 | 66.55 | Zone 4 |
| J-676 | 0 | 5,127 | 5,281 | 66.58 | Zone 4 |
| J-145 | 8.72 | 5,170 | 5,324 | 66.58 | Zone 3 |
| FH-930 | 0 | 5,127 | 5,281 | 66.71 | Zone 4 |
| J-443 | 7.27 | 5,127 | 5,281 | 66.87 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-4 | 14.2 | 5,163 | 5,317 | 66.9 | Zone 1 |
| J-576 | 8.72 | 5,126 | 5,281 | 67.05 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,281 | 67.08 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,281 | 67.21 | Zone 4 |
| J-141 | 8 | 5,169 | 5,324 | 67.22 | Zone 3 |
| J-842 | 6.54 | 5,126 | 5,281 | 67.22 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,281 | 67.31 | Zone 4 |
| H-66-PH1 | 0 | 5,125 | 5,281 | 67.4 | Zone 4 |
| J-844 | 3.64 | 5,125 | 5,281 | 67.57 | Zone 4 |
| J-652 | 11.23 | 5,148 | 5,304 | 67.65 | Zone 1 |
| H-5-PH20 | 0 | 5,125 | 5,281 | 67.71 | Zone 4 |
| J-736 | 10.18 | 5,124 | 5,281 | 67.83 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,281 | 68.11 | Zone 4 |
| J-817 | 0 | 5,122 | 5,281 | 68.72 | Zone 4 |
| J-846 | 0 | 5,122 | 5,281 | 68.86 | Zone 4 |
| J-690 | 0 | 5,122 | 5,281 | 68.96 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,281 | 68.97 | Zone 4 |
| J-674 | 0 | 5,121 | 5,281 | 69.14 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,281 | 69.21 | Zone 4 |
| J-808 | 0 | 5,121 | 5,281 | 69.3 | Zone 4 |
| H-65-PH1 | 0 | 5,121 | 5,281 | 69.3 | Zone 4 |
| J-843 | 0 | 5,121 | 5,281 | 69.31 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,281 | 69.33 | Zone 4 |
| J-812 | 0 | 5,121 | 5,281 | 69.33 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,281 | 69.61 | Zone 4 |
| J-389 | 2.91 | 5,120 | 5,281 | 69.7 | Zone 4 |
| J-23-1201 | 2.91 | 5,119 | 5,281 | 70 | Zone 4 |
| J-23-1202 | 3.64 | 5,119 | 5,281 | 70.13 | Zone 4 |
| J-348 | 7.27 | 5,119 | 5,281 | 70.26 | Zone 4 |
| J-813 | 8.72 | 5,118 | 5,281 | 70.51 | Zone 4 |
| J-818 | 8 | 5,118 | 5,281 | 70.54 | Zone 4 |
| J-143 | 6.54 | 5,161 | 5,324 | 70.55 | Zone 3 |
| J-680 | 9.45 | 5,118 | 5,281 | 70.64 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,281 | 70.72 | Zone 4 |
| J-184 | 8.34 | 5,118 | 5,281 | 70.73 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,281 | 70.76 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,281 | 70.8 | Zone 4 |
| J-823 | 0 | 5,117 | 5,281 | 70.81 | Zone 4 |
| J-809 | 8 | 5,117 | 5,281 | 70.82 | Zone 4 |
| J-729 | 0 | 5,117 | 5,281 | 70.99 | Zone 4 |
| J-735 | 0 | 5,116 | 5,281 | 71.4 | Zone 4 |
| J-851 | 5.82 | 5,116 | 5,281 | 71.44 | Zone 4 |
| H-61-PH1 | 0 | 5,116 | 5,281 | 71.44 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,281 | 71.47 | Zone 4 |
| J-346 | 0 | 5,116 | 5,281 | 71.55 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,281 | 71.61 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-770 | 0 | 5,115 | 5,281 | 71.62 | Zone 4 |
| J-833 | 0 | 5,115 | 5,281 | 71.7 | Zone 4 |
| H-64-PH1 | 0 | 5,115 | 5,281 | 71.72 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,281 | 71.74 | Zone 4 |
| J-840 | 7.27 | 5,115 | 5,281 | 71.87 | Zone 4 |
| J-845 | 7.27 | 5,115 | 5,281 | 71.94 | Zone 4 |
| H-70-PH1 | 0 | 5,115 | 5,281 | 72.01 | Zone 4 |
| J22-886 | 2.18 | 5,114 | 5,281 | 72.18 | Zone 4 |
| J-814 | 0 | 5,114 | 5,281 | 72.19 | Zone 4 |
| H-58-PH1 | 0 | 5,114 | 5,281 | 72.27 | Zone 4 |
| J-855 | 6.54 | 5,114 | 5,281 | 72.31 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,281 | 72.36 | Zone 4 |
| J22-884 | 2.18 | 5,114 | 5,281 | 72.41 | Zone 4 |
| H-60-PH1 | 0 | 5,114 | 5,281 | 72.44 | Zone 4 |
| J-832 | 0 | 5,113 | 5,281 | 72.48 | Zone 4 |
| J22-1079 | 4.86 | 5,113 | 5,281 | 72.5 | Zone 4 |
| J22-1159 | 2.18 | 5,113 | 5,281 | 72.52 | Zone 4 |
| J-442 | 8 | 5,114 | 5,281 | 72.52 | Zone 4 |
| J-852 | 5.82 | 5,113 | 5,281 | 72.54 | Zone 4 |
| J22-1158 | 2.18 | 5,113 | 5,281 | 72.54 | Zone 4 |
| J-689 | 6.54 | 5,113 | 5,281 | 72.56 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,281 | 72.56 | Zone 4 |
| H-59-PH1 | 0 | 5,113 | 5,281 | 72.6 | Zone 4 |
| J-856 | 6.54 | 5,113 | 5,281 | 72.61 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,281 | 72.63 | Zone 4 |
| J-650 | 0 | 5,113 | 5,281 | 72.79 | Zone 4 |
| J-448 | 12.35 | 5,134 | 5,303 | 72.82 | Zone 1 |
| J-783 | 5.09 | 5,112 | 5,281 | 73.12 | Zone 4 |
| DDLESCH | 8.34 | 5,112 | 5,281 | 73.15 | Zone 4 |
| H-20-PH1 | 0 | 5,112 | 5,281 | 73.2 | Zone 4 |
| J-570 | 0 | 5,112 | 5,281 | 73.21 | Zone 4 |
| J-854 | 6.54 | 5,112 | 5,281 | 73.25 | Zone 4 |
| J-441 | 8 | 5,112 | 5,281 | 73.27 | Zone 4 |
| H-57-PH1 | 0 | 5,112 | 5,281 | 73.33 | Zone 4 |
| J-434 | 5.82 | 5,112 | 5,281 | 73.33 | Zone 4 |
| J-734 | 0 | 5,111 | 5,281 | 73.57 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,281 | 73.7 | Zone 4 |
| J-433 | 2.91 | 5,111 | 5,281 | 73.74 | Zone 4 |
| J-195 | 0 | 5,111 | 5,281 | 73.8 | Zone 4 |
| FH-919 | 8.72 | 5,111 | 5,281 | 73.81 | Zone 4 |
| J-681 | 0 | 5,110 | 5,281 | 73.89 | Zone 4 |
| H-72-PH1 | 0 | 5,110 | 5,281 | 73.93 | Zone 4 |
| J-139 | 0 | 5,153 | 5,324 | 73.96 | Zone 3 |
| J22-887 | 0 | 5,110 | 5,281 | 74.05 | Zone 4 |
| J22-1082 | 8.34 | 5,110 | 5,281 | 74.14 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,281 | 74.23 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-1160 | 0 | 5,109 | 5,281 | 74.25 | Zone 4 |
| J-189 | 0 | 5,145 | 5,317 | 74.28 | Zone 1 |
| PH22-FH5 | 0 | 5,109 | 5,281 | 74.36 | Zone 4 |
| J-649 | 0 | 5,109 | 5,281 | 74.43 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,281 | 74.5 | Zone 4 |
| J22-1161 | 2.18 | 5,109 | 5,281 | 74.56 | Zone 4 |
| J-835 | 0 | 5,109 | 5,281 | 74.57 | Zone 4 |
| J-834 | 0 | 5,109 | 5,281 | 74.62 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,281 | 74.63 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,281 | 74.64 | Zone 4 |
| H-62-PH1 | 0 | 5,108 | 5,281 | 74.7 | Zone 4 |
| J22-1163 | 2.18 | 5,108 | 5,281 | 74.84 | Zone 4 |
| J-731 | 0 | 5,108 | 5,281 | 74.85 | Zone 4 |
| J-571 | 0 | 5,108 | 5,281 | 74.9 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,281 | 74.98 | Zone 4 |
| J-286 | 22.88 | 5,108 | 5,281 | 75.1 | Zone 4 |
| J-190 | 0 | 5,143 | 5,316 | 75.19 | Zone 1 |
| J-847 | 0 | 5,107 | 5,281 | 75.23 | Zone 4 |
| J-642 | 0 | 5,107 | 5,281 | 75.37 | Zone 4 |
| J22-890 | 1.45 | 5,107 | 5,281 | 75.38 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,281 | 75.46 | Zone 4 |
| J-284 | 11.63 | 5,106 | 5,281 | 75.72 | Zone 4 |
| J-667 | 0 | 5,106 | 5,281 | 75.8 | Zone 4 |
| J-850 | 5.82 | 5,106 | 5,281 | 75.89 | Zone 4 |
| J-765 | 0 | 5,106 | 5,281 | 75.9 | Zone 4 |
| H-63-PH1 | 0 | 5,105 | 5,281 | 75.96 | Zone 4 |
| J-857 | 0 | 5,105 | 5,281 | 76.04 | Zone 4 |
| J-858 | 5.82 | 5,105 | 5,281 | 76.35 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,281 | 76.5 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,281 | 76.52 | Zone 4 |
| J-23-1206 | 2.18 | 5,104 | 5,281 | 76.7 | Zone 4 |
| J-769 | 0 | 5,104 | 5,281 | 76.75 | Zone 4 |
| J-853 | 0 | 5,103 | 5,281 | 76.89 | Zone 4 |
| H-19-PH1 | 0 | 5,103 | 5,281 | 76.93 | Zone 4 |
| J-764 | 8.34 | 5,103 | 5,281 | 76.94 | Zone 4 |
| J-23-1205 | 2.18 | 5,103 | 5,281 | 77.03 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,281 | 77.03 | Zone 4 |
| J-733 | 10.18 | 5,103 | 5,281 | 77.05 | Zone 4 |
| J-203 | 7.27 | 5,103 | 5,281 | 77.08 | Zone 4 |
| J-782 | 5.09 | 5,103 | 5,281 | 77.18 | Zone 4 |
| J-651 | 0 | 5,103 | 5,281 | 77.18 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,281 | 77.21 | Zone 4 |
| J-283 | 8 | 5,103 | 5,281 | 77.27 | Zone 4 |
| J22-1165 | 2.91 | 5,102 | 5,281 | 77.31 | Zone 4 |
| J-799 | 0 | 5,102 | 5,281 | 77.33 | Zone 4 |
| J22-1164 | 2.18 | 5,102 | 5,281 | 77.35 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-144 | 0 | 5,145 | 5,324 | 77.38 | Zone 3 |
| J22-1084 | 0 | 5,102 | 5,281 | 77.39 | Zone 4 |
| H22-FH8 | 0 | 5,102 | 5,281 | 77.46 | Zone 4 |
| J-666 | 9.45 | 5,102 | 5,281 | 77.47 | Zone 4 |
| J-23-1203 | 3.64 | 5,102 | 5,281 | 77.54 | Zone 4 |
| J22-892 | 1.45 | 5,102 | 5,281 | 77.61 | Zone 4 |
| J-1071 | 0 | 5,101 | 5,281 | 77.69 | Zone 4 |
| J-768 | 0 | 5,101 | 5,281 | 77.85 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,281 | 77.88 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,281 | 78.04 | Zone 4 |
| J-683 | 9.45 | 5,101 | 5,281 | 78.05 | Zone 4 |
| J22-1166 | 0 | 5,100 | 5,281 | 78.15 | Zone 4 |
| J-432 | 2.91 | 5,101 | 5,281 | 78.18 | Zone 4 |
| H22-FH1 | 0 | 5,100 | 5,281 | 78.19 | Zone 4 |
| H-18-PH1 | 0 | 5,100 | 5,281 | 78.26 | Zone 4 |
| J-646 | 17.96 | 5,123 | 5,304 | 78.37 | Zone 1 |
| R-TOWN | 5.22 | 5,124 | 5,305 | 78.38 | Zone 1 |
| H-16-PH1 | 0 | 5,100 | 5,281 | 78.46 | Zone 4 |
| J-204 | 7.27 | 5,100 | 5,281 | 78.47 | Zone 4 |
| J-780 | 8.72 | 5,099 | 5,281 | 78.55 | Zone 4 |
| J-763 | 0 | 5,099 | 5,281 | 78.55 | Zone 4 |
| J22-1168 | 2.91 | 5,099 | 5,281 | 78.64 | Zone 4 |
| H-17-PH1 | 0 | 5,099 | 5,281 | 78.65 | Zone 4 |
| H22-FH1 | 0 | 5,099 | 5,281 | 78.69 | Zone 4 |
| J-196 | 0 | 5,099 | 5,281 | 78.72 | Zone 4 |
| J-306 | 8.98 | 5,134 | 5,315 | 78.75 | Zone 1 |
| J22-1170 | 2.91 | 5,099 | 5,281 | 78.83 | Zone 4 |
| H22-FH1 | 0 | 5,099 | 5,281 | 78.83 | Zone 4 |
| J-781 | 7.27 | 5,099 | 5,281 | 78.85 | Zone 4 |
| J-23-1204 | 3.64 | 5,099 | 5,281 | 78.87 | Zone 4 |
| J22-1147 | 0 | 5,099 | 5,281 | 78.92 | Zone 4 |
| DG3-CC | 4.86 | 5,099 | 5,281 | 78.95 | Zone 4 |
| J22-1086 | 0 | 5,099 | 5,281 | 78.96 | Zone 4 |
| J-5 | 8.98 | 5,133 | 5,315 | 78.97 | Zone 1 |
| J22-1171 | 2.91 | 5,099 | 5,281 | 78.98 | Zone 4 |
| J-715 | 0 | 5,099 | 5,281 | 78.98 | Zone 4 |
| J-728 | 0 | 5,098 | 5,281 | 79.03 | Zone 4 |
| J-281 | 5.82 | 5,099 | 5,281 | 79.04 | Zone 4 |
| J-779 | 0 | 5,098 | 5,281 | 79.05 | Zone 4 |
| H22-FH1 | 0 | 5,098 | 5,281 | 79.08 | Zone 4 |
| J-653 | 11.23 | 5,121 | 5,304 | 79.16 | Zone 1 |
| J22-896 | 0 | 5,098 | 5,281 | 79.23 | Zone 4 |
| J-704 | 8.34 | 5,098 | 5,281 | 79.25 | Zone 4 |
| J-665 | 0 | 5,098 | 5,281 | 79.3 | Zone 4 |
| J22-1169 | 3.64 | 5,097 | 5,281 | 79.45 | Zone 4 |
| H-15-PH1 | 0 | 5,097 | 5,281 | 79.47 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H22-FH1 | 0 | 5,097 | 5,281 | 79.5 | Zone 4 |
| H22-FH1 | 0 | 5,097 | 5,281 | 79.53 | Zone 4 |
| J22-1172 | 6.54 | 5,097 | 5,281 | 79.54 | Zone 4 |
| J-639 | 0 | 5,097 | 5,281 | 79.59 | Zone 4 |
| J-767 | 8.34 | 5,097 | 5,281 | 79.6 | Zone 4 |
| J-484 | 8 | 5,097 | 5,281 | 79.61 | Zone 4 |
| J-705 | 0 | 5,097 | 5,281 | 79.65 | Zone 4 |
| J-778 | 10.91 | 5,097 | 5,281 | 79.69 | Zone 4 |
| J-671 | 8.34 | 5,097 | 5,281 | 79.79 | Zone 4 |
| J-613 | 0 | 5,097 | 5,281 | 79.84 | Zone 4 |
| J22-898 | 0 | 5,097 | 5,281 | 79.85 | Zone 4 |
| J-447 | 8.98 | 5,118 | 5,303 | 79.87 | Zone 1 |
| J-645 | 0 | 5,119 | 5,304 | 79.89 | Zone 1 |
| J-714 | 0 | 5,096.31 | 5,280.81 | 79.94 | Zone 4 |
| J-205 | 7.27 | 5,096.27 | 5,280.90 | 80 | Zone 4 |
| H-13-PH1 | 0 | 5,096.07 | 5,280.78 | 80.03 | Zone 4 |
| J-23-1207 | 3.64 | 5,095.92 | 5,280.81 | 80.11 | Zone 4 |
| J-485 | 17.07 | 5,095.99 | 5,280.90 | 80.12 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,280.78 | 80.18 | Zone 4 |
| H-11-PH1 | 0 | 5,096 | 5,281 | 80.18 | Zone 4 |
| J22-1072 | 0 | 5,096 | 5,281 | 80.18 | Zone 4 |
| J-325 | 12.71 | 5,095.74 | 5,281.04 | 80.29 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,280.88 | 80.3 | Zone 4 |
| J-776 | 7.27 | 5,095.41 | 5,280.78 | 80.32 | Zone 4 |
| H-14-PH1 | 0 | 5,095.35 | 5,280.78 | 80.35 | Zone 4 |
| J22-874 | 1.45 | 5,095.38 | 5,280.82 | 80.35 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,280.82 | 80.4 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,280.86 | 80.43 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,280.89 | 80.44 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,280.82 | 80.44 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,281.04 | 80.45 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,280.80 | 80.51 | Zone 4 |
| J22-1087 | 13.21 | 5,094.99 | 5,280.82 | 80.52 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,280.79 | 80.62 | Zone 4 |
| J-431 | 3.64 | 5,094.71 | 5,280.98 | 80.71 | Zone 4 |
| J-206 | 7.27 | 5,094.63 | 5,280.90 | 80.71 | Zone 4 |
| J-771 | 13.81 | 5,094.49 | 5,280.80 | 80.73 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,280.78 | 80.75 | Zone 4 |
| J-23-1228 | 5.82 | 5,094.40 | 5,280.80 | 80.77 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,280.92 | 80.8 | Zone 4 |
| J-660 | 5.82 | 5,094.39 | 5,280.86 | 80.8 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,280.80 | 80.85 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,280.93 | 80.86 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,280.98 | 80.97 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,280.93 | 81.03 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,280.80 | 81.08 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-444 | 0 | 5,136.58 | 5,323.76 | 81.11 | Zone 3 |
| H-10-PH1 | 0 | 5,093.60 | 5,280.80 | 81.11 | Zone 4 |
| J-657 | 7.27 | 5,093.38 | 5,280.83 | 81.22 | Zone 4 |
| J-775 | 7.27 | 5,093.32 | 5,280.80 | 81.23 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,280.84 | 81.27 | Zone 4 |
| J-23-1212 | 2.91 | 5,093.24 | 5,280.87 | 81.3 | Zone 4 |
| J-662 | 7.27 | 5,092.99 | 5,280.87 | 81.41 | Zone 4 |
| J22-1088 | 4.86 | 5,092.98 | 5,280.87 | 81.41 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,280.80 | 81.46 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,280.87 | 81.46 | Zone 4 |
| J22-880 | 2.18 | 5,092.85 | 5,280.87 | 81.47 | Zone 4 |
| H22-FH1 | 0 | 5,092.73 | 5,280.87 | 81.52 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,280.79 | 81.56 | Zone 4 |
| J-207 | 7.27 | 5,092.46 | 5,280.90 | 81.65 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,280.93 | 81.65 | Zone 4 |
| 2-IRR-11 | 0 | 5,092.39 | 5,280.88 | 81.67 | Zone 4 |
| J-658 | 10.91 | 5,092.30 | 5,280.84 | 81.69 | Zone 4 |
| J-248 | 10.18 | 5,135.17 | 5,323.76 | 81.71 | Zone 3 |
| J-644 | 19.09 | 5,115.23 | 5,303.91 | 81.75 | Zone 1 |
| J-23-1223 | 0 | 5,092.08 | 5,280.80 | 81.77 | Zone 4 |
| J-23-1208 | 5.09 | 5,092.02 | 5,280.80 | 81.8 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,280.91 | 81.82 | Zone 4 |
| -VILLAGE | 8.34 | 5,092.08 | 5,280.93 | 81.83 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,280.80 | 81.85 | Zone 4 |
| J-328 | 0 | 5,113.60 | 5,302.53 | 81.86 | Zone 1 |
| AV-3 | 0 | 5,091.86 | 5,280.80 | 81.87 | Zone 4 |
| J-655 | 7.27 | 5,091.87 | 5,280.87 | 81.89 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,281.27 | 81.9 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,280.90 | 81.95 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,280.86 | 81.96 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,323.76 | 81.97 | Zone 3 |
| J-466 | 10.91 | 5,091.59 | 5,280.90 | 82.03 | Zone 4 |
| J-656 | 0 | 5,091 | 5,281 | 82.05 | Zone 4 |
| J-23-1216 | 2.18 | 5,091.71 | 5,281.10 | 82.06 | Zone 4 |
| J-454 | 8.72 | 5,091.37 | 5,280.92 | 82.13 | Zone 4 |
| J-198 | 9.45 | 5,091.35 | 5,280.94 | 82.15 | Zone 4 |
| J-664 | 6.54 | 5,091.23 | 5,280.89 | 82.18 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,280.86 | 82.19 | Zone 4 |
| J-23-1217 | 0 | 5,091 | 5,281 | 82.19 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,281.10 | 82.25 | Zone 4 |
| J-23-1215 | 1.45 | 5,091.25 | 5,281.07 | 82.25 | Zone 4 |
| J-387 | 0 | 5,125.58 | 5,315.43 | 82.26 | Zone 1 |
| J-1278 | 0 | 5,091.08 | 5,280.93 | 82.26 | Zone 4 |
| J-23-1219 | 1.45 | 5,091.11 | 5,281.10 | 82.32 | Zone 4 |
| FH-916 | 0 | 5,091 | 5,281 | 82.34 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,281.21 | 82.45 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-915 | 0 | 5,090.48 | 5,280.87 | 82.5 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,281.13 | 82.5 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,281.17 | 82.53 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,280.94 | 82.55 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,280.93 | 82.61 | Zone 4 |
| J-23-1213 | 4.36 | 5,090.32 | 5,281.04 | 82.64 | Zone 4 |
| J22-882 | 2.91 | 5,090.19 | 5,280.94 | 82.65 | Zone 4 |
| J-23-1214 | 0.73 | 5,090.30 | 5,281.06 | 82.66 | Zone 4 |
| J-453 | 12.36 | 5,090.15 | 5,280.92 | 82.66 | Zone 4 |
| H22-FH1 | 0 | 5,090.10 | 5,280.94 | 82.69 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,280.87 | 82.69 | Zone 4 |
| J-661 | 6.54 | 5,089.72 | 5,280.87 | 82.82 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,280.87 | 83.01 | Zone 4 |
| J-199 | 10.18 | 5,089.28 | 5,280.92 | 83.03 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,280.89 | 83.14 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,280.93 | 83.23 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,280.89 | 83.27 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,280.89 | 83.28 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,280.94 | 83.5 | Zone 4 |
| J-324 | 3.64 | 5,087.57 | 5,280.98 | 83.8 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,280.93 | 83.83 | Zone 4 |
| J-343 | 10.1 | 5,108.61 | 5,302.09 | 83.83 | Zone 1 |
| LEMSCH | 16.69 | 5,087.43 | 5,280.92 | 83.84 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,280.93 | 83.89 | Zone 4 |
| J-200 | 10.18 | 5,087.30 | 5,280.91 | 83.89 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,280.93 | 83.91 | Zone 4 |
| J-159 | 12.35 | 5,108.44 | 5,302.09 | 83.91 | Zone 1 |
| 7CSELEN | 0 | 5,087 | 5,281 | 83.93 | Zone 4 |
| J-440 | 4.36 | 5,086.88 | 5,280.96 | 84.1 | Zone 4 |
| J-191 | 14.2 | 5,122 | 5,316 | 84.15 | Zone 1 |
| J-478 | 5.82 | 5,086.54 | 5,280.94 | 84.23 | Zone 4 |
| J-474 | 5.82 | 5,086.26 | 5,280.93 | 84.35 | Zone 4 |
| J-438 | 9.45 | 5,086.25 | 5,280.96 | 84.37 | Zone 4 |
| J-460 | 9.45 | 5,086.01 | 5,280.95 | 84.47 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,315.34 | 84.48 | Zone 1 |
| J-407 | 3.64 | 5,085.64 | 5,280.90 | 84.61 | Zone 4 |
| J-201 | 10.18 | 5,085.59 | 5,280.90 | 84.63 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,280.94 | 84.71 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,280.95 | 84.83 | Zone 4 |
| J22-902 | 8.34 | 5,085.12 | 5,280.94 | 84.85 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,280.94 | 84.96 | Zone 4 |
| J-475 | 6.54 | 5,084.82 | 5,280.94 | 84.98 | Zone 4 |
| J-408 | 8.72 | 5,084.71 | 5,280.90 | 85.01 | Zone 4 |
| J-202 | 8.72 | 5,084.62 | 5,280.90 | 85.05 | Zone 4 |
| J-334 | 0 | 5,106.04 | 5,302.53 | 85.14 | Zone 1 |
| J22-1091 | 0 | 5,084.24 | 5,280.93 | 85.23 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|---------|--------------|----------------|-----------|----------------|--------|
| J-280 | 5.82 | 5,084.28 | 5,281.06 | 85.26 | Zone 4 |
| H22-FH1 | 0 | 5,084.13 | 5,280.94 | 85.28 | Zone 4 |
| J-285 | 8.72 | 5,084 | 5,281 | 85.43 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,280.90 | 85.56 | Zone 4 |
| J-476 | 5.82 | 5,083.43 | 5,280.94 | 85.58 | Zone 4 |
| J-409 | 4.36 | 5,083.24 | 5,280.91 | 85.65 | Zone 4 |
| J-323 | 13.43 | 5,083.06 | 5,280.96 | 85.75 | Zone 4 |
| J-282 | 8 | 5,082.97 | 5,281.06 | 85.83 | Zone 4 |
| J-333 | 11.23 | 5,104.15 | 5,302.53 | 85.95 | Zone 1 |
| J-288 | 0 | 5,082.55 | 5,280.93 | 85.96 | Zone 4 |
| J-471 | 10.91 | 5,082.54 | 5,280.92 | 85.96 | Zone 4 |
| J-208 | 7.27 | 5,082.50 | 5,280.93 | 85.98 | Zone 4 |
| J-273 | 5.09 | 5,082.46 | 5,280.93 | 86 | Zone 4 |
| J-461 | 10.91 | 5,082.44 | 5,280.95 | 86.01 | Zone 4 |
| J-160 | 10.1 | 5,103.31 | 5,302.09 | 86.13 | Zone 1 |
| J-473 | 8.72 | 5,082.14 | 5,280.93 | 86.13 | Zone 4 |
| J-477 | 5.82 | 5,082.15 | 5,280.94 | 86.14 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,280.94 | 86.2 | Zone 4 |
| J-329 | 8.98 | 5,103.30 | 5,302.53 | 86.33 | Zone 1 |
| J-459 | 6.54 | 5,082 | 5,281 | 86.34 | Zone 4 |
| J-410 | 5.09 | 5,081.37 | 5,280.92 | 86.47 | Zone 4 |
| J-215 | 15.61 | 5,081.17 | 5,280.91 | 86.55 | Zone 4 |
| J-424 | 4.86 | 5,081.15 | 5,280.94 | 86.57 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,315.40 | 86.58 | Zone 1 |
| J-405 | 5.82 | 5,081.06 | 5,280.91 | 86.59 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,304.49 | 86.61 | Zone 1 |
| J-271 | 8 | 5,080.96 | 5,280.93 | 86.65 | Zone 4 |
| J-648 | 5.61 | 5,103.71 | 5,303.73 | 86.67 | Zone 1 |
| J-320 | 8.34 | 5,080.78 | 5,280.93 | 86.73 | Zone 4 |
| J-25 | 0 | 5,104.44 | 5,304.66 | 86.75 | Zone 1 |
| J-586 | 16.69 | 5,080.67 | 5,280.93 | 86.77 | Zone 4 |
| J-462 | 13.09 | 5,080.60 | 5,280.95 | 86.81 | Zone 4 |
| J-417 | 8.72 | 5,080.47 | 5,280.95 | 86.87 | Zone 4 |
| J-272 | 5.09 | 5,080.44 | 5,280.93 | 86.87 | Zone 4 |
| J-321 | 4.36 | 5,080.22 | 5,280.93 | 86.97 | Zone 4 |
| J-214 | 7.27 | 5,080.16 | 5,280.91 | 86.98 | Zone 4 |
| J-270 | 8 | 5,080.13 | 5,280.93 | 87 | Zone 4 |
| J-411 | 5.09 | 5,079.96 | 5,280.92 | 87.08 | Zone 4 |
| J-472 | 8 | 5,079.93 | 5,280.92 | 87.09 | Zone 4 |
| J-603 | 11.23 | 5,102.70 | 5,303.71 | 87.1 | Zone 1 |
| J-404 | 5.82 | 5,079.68 | 5,280.92 | 87.2 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,280.95 | 87.29 | Zone 4 |
| J-27 | 0 | 5,101.81 | 5,303.30 | 87.3 | Zone 1 |
| J-458 | 7.27 | 5,079.24 | 5,280.94 | 87.4 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,280.92 | 87.52 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,280.94 | 87.53 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-277 | 8.72 | 5,078.88 | 5,280.93 | 87.55 | Zone 4 |
| J-418 | 8 | 5,078.88 | 5,280.95 | 87.56 | Zone 4 |
| J-239 | 7.27 | 5,078.79 | 5,280.90 | 87.57 | Zone 4 |
| J-412 | 5.09 | 5,078.68 | 5,280.93 | 87.63 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,280.94 | 87.67 | Zone 4 |
| J-403 | 5.09 | 5,078.53 | 5,280.92 | 87.7 | Zone 4 |
| J-249 | 8 | 5,120.99 | 5,323.76 | 87.86 | Zone 3 |
| J-587 | 8.34 | 5,078.13 | 5,280.94 | 87.88 | Zone 4 |
| J-647 | 11.23 | 5,100.91 | 5,303.73 | 87.88 | Zone 1 |
| J-279 | 6.54 | 5,078.05 | 5,280.93 | 87.91 | Zone 4 |
| J-269 | 7.27 | 5,077.78 | 5,280.93 | 88.03 | Zone 4 |
| J-446 | 8.98 | 5,099.26 | 5,302.52 | 88.08 | Zone 1 |
| J-426 | 8 | 5,077.65 | 5,280.94 | 88.09 | Zone 4 |
| J-212 | 6.54 | 5,077.48 | 5,280.90 | 88.14 | Zone 4 |
| J-413 | 5.09 | 5,077.49 | 5,280.94 | 88.16 | Zone 4 |
| J-425 | 2.91 | 5,077.39 | 5,280.94 | 88.2 | Zone 4 |
| J-264 | 7.27 | 5,077.35 | 5,280.93 | 88.21 | Zone 4 |
| J-402 | 5.82 | 5,077.13 | 5,280.93 | 88.3 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,323.76 | 88.39 | Zone 3 |
| J-231 | 7.27 | 5,076.71 | 5,280.92 | 88.48 | Zone 4 |
| J-276 | 10.18 | 5,076.67 | 5,280.94 | 88.51 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,280.96 | 88.61 | Zone 4 |
| J-230 | 7.27 | 5,076.30 | 5,280.91 | 88.66 | Zone 4 |
| J-332 | 0 | 5,097.85 | 5,302.53 | 88.69 | Zone 1 |
| J-414 | 0 | 5,076.16 | 5,280.98 | 88.75 | Zone 4 |
| J-226 | 7.27 | 5,075.95 | 5,280.90 | 88.8 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,280.98 | 88.82 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,280.94 | 88.9 | Zone 4 |
| J-401 | 6.54 | 5,075.73 | 5,280.94 | 88.92 | Zone 4 |
| J-595 | 4.49 | 5,099.13 | 5,304.37 | 88.93 | Zone 1 |
| J-295 | 9.45 | 5,075.72 | 5,280.98 | 88.94 | Zone 4 |
| J-340 | 6.74 | 5,096.75 | 5,302.09 | 88.98 | Zone 1 |
| J-278 | 8.72 | 5,075.57 | 5,280.94 | 88.99 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,280.94 | 89.01 | Zone 4 |
| J-436 | 9.45 | 5,075.48 | 5,280.94 | 89.03 | Zone 4 |
| J-296 | 8 | 5,075.50 | 5,280.98 | 89.03 | Zone 4 |
| J-315 | 10.18 | 5,075.27 | 5,280.97 | 89.13 | Zone 4 |
| J-228 | 7.27 | 5,075.04 | 5,280.90 | 89.2 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,280.94 | 89.29 | Zone 4 |
| J-330 | 7.86 | 5,096.35 | 5,302.53 | 89.34 | Zone 1 |
| J-314 | 0 | 5,074.59 | 5,280.98 | 89.43 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,280.90 | 89.47 | Zone 4 |
| J-400 | 5.82 | 5,074.49 | 5,280.98 | 89.47 | Zone 4 |
| J-294 | 6.54 | 5,074.33 | 5,280.99 | 89.55 | Zone 4 |
| J-316 | 17.07 | 5,074.16 | 5,280.97 | 89.61 | Zone 4 |
| J-254 | 5.09 | 5,074.06 | 5,280.90 | 89.62 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-258 | 0 | 5,074.07 | 5,280.93 | 89.63 | Zone 4 |
| J-303 | 3.64 | 5,074.07 | 5,280.98 | 89.65 | Zone 4 |
| J-312 | 10.18 | 5,073.95 | 5,280.99 | 89.71 | Zone 4 |
| J-445 | 0 | 5,095.13 | 5,302.53 | 89.87 | Zone 1 |
| J-606 | 15.72 | 5,096.31 | 5,303.85 | 89.93 | Zone 1 |
| J-435 | 0 | 5,073.19 | 5,280.92 | 90.01 | Zone 4 |
| J-308 | 11.63 | 5,073.29 | 5,281.02 | 90.01 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,281.00 | 90.06 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,280.97 | 90.07 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,280.94 | 90.14 | Zone 4 |
| J-266 | 6.54 | 5,072.93 | 5,280.98 | 90.15 | Zone 4 |
| J-233 | 8.34 | 5,072.79 | 5,280.92 | 90.18 | Zone 4 |
| J-260 | 4.36 | 5,072.80 | 5,280.96 | 90.2 | Zone 4 |
| J-313 | 8.72 | 5,072.76 | 5,280.99 | 90.22 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,280.91 | 90.28 | Zone 4 |
| J-592 | 14.6 | 5,095.57 | 5,304.02 | 90.32 | Zone 1 |
| J-225 | 0 | 5,072.30 | 5,280.90 | 90.39 | Zone 4 |
| J-310 | 10.18 | 5,072.34 | 5,281.02 | 90.42 | Zone 4 |
| J-309 | 7.27 | 5,072.32 | 5,281.02 | 90.43 | Zone 4 |
| J-166 | 8.98 | 5,093.26 | 5,302.09 | 90.49 | Zone 1 |
| J-259 | 4.36 | 5,072.01 | 5,280.98 | 90.54 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,280.90 | 90.64 | Zone 4 |
| J-300 | 5.82 | 5,071.64 | 5,281.03 | 90.73 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,281.01 | 90.81 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,280.98 | 90.86 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,280.90 | 90.88 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,280.96 | 90.88 | Zone 4 |
| J-263 | 16.12 | 5,070.85 | 5,280.93 | 91.03 | Zone 4 |
| J-307 | 10.18 | 5,070.23 | 5,281.04 | 91.34 | Zone 4 |
| J-319 | 8.34 | 5,070.24 | 5,281.09 | 91.36 | Zone 4 |
| J-261 | 3.64 | 5,069.91 | 5,280.96 | 91.45 | Zone 4 |
| J-302 | 7.27 | 5,069.92 | 5,281.08 | 91.5 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,281.08 | 91.56 | Zone 4 |
| J-336 | 8.98 | 5,090.75 | 5,302.26 | 91.65 | Zone 1 |
| J-23 | 6.74 | 5,102.29 | 5,314.21 | 91.83 | Zone 1 |
| J-251 | 14.54 | 5,069.14 | 5,281.10 | 91.84 | Zone 4 |
| J-252 | 8.34 | 5,069.06 | 5,281.22 | 91.93 | Zone 4 |
| J-219 | 6.54 | 5,068.69 | 5,280.90 | 91.95 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,323.77 | 92.08 | Zone 3 |
| J-327 | 12.35 | 5,089.27 | 5,302.53 | 92.4 | Zone 1 |
| J-250 | 8 | 5,067.75 | 5,281.04 | 92.42 | Zone 4 |
| J-247 | 18.18 | 5,067.68 | 5,281.12 | 92.49 | Zone 4 |
| J-223 | 7.27 | 5,067.34 | 5,280.91 | 92.54 | Zone 4 |
| J-238 | 7.27 | 5,067.17 | 5,280.90 | 92.61 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,302.26 | 93.04 | Zone 1 |
| J-220 | 7.27 | 5,066.08 | 5,280.90 | 93.08 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-221 | 7.27 | 5,066.06 | 5,280.90 | 93.09 | Zone 4 |
| J-137 | 8 | 5,108.67 | 5,323.78 | 93.2 | Zone 3 |
| J-590 | 10.1 | 5,088.31 | 5,303.93 | 93.43 | Zone 1 |
| J-339 | 7.86 | 5,085.67 | 5,302.18 | 93.81 | Zone 1 |
| J-604 | 6.74 | 5,086.47 | 5,303.76 | 94.15 | Zone 1 |
| J-597 | 13.47 | 5,085.96 | 5,303.71 | 94.35 | Zone 1 |
| J-161 | 10.1 | 5,082.45 | 5,302.11 | 95.18 | Zone 1 |
| J-342 | 0 | 5,082.46 | 5,302.21 | 95.22 | Zone 1 |
| J-427 | 11.23 | 5,082.41 | 5,302.53 | 95.38 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,284.35 | 95.46 | Zone 4 |
| J-6 | 8.98 | 5,094.60 | 5,315.28 | 95.62 | Zone 1 |
| J-589 | 13.47 | 5,082.17 | 5,303.93 | 96.09 | Zone 1 |
| J-136 | 21.08 | 5,100.47 | 5,323.85 | 96.79 | Zone 3 |
| J-331 | 10.1 | 5,079.08 | 5,302.55 | 96.83 | Zone 1 |
| J-594 | 0 | 5,079.25 | 5,303.68 | 97.25 | Zone 1 |
| J-337 | 16.84 | 5,077.64 | 5,302.33 | 97.36 | Zone 1 |
| J-135 | 24.72 | 5,097.88 | 5,323.94 | 97.95 | Zone 3 |
| J-588 | 10.1 | 5,077.31 | 5,303.93 | 98.19 | Zone 1 |
| J-162 | 11.23 | 5,074.91 | 5,302.09 | 98.44 | Zone 1 |
| J-385 | 8.96 | 5,076.49 | 5,303.78 | 98.49 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,303.90 | 98.49 | Zone 1 |
| J-289 | 8.98 | 5,087.80 | 5,315.26 | 98.56 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,302.65 | 99.46 | Zone 1 |
| J-150 | 10.1 | 5,066.84 | 5,301.97 | 101.88 | Zone 1 |
| J-151 | 6.74 | 5,065.12 | 5,301.97 | 102.62 | Zone 1 |
| J-305 | 8.98 | 5,077.07 | 5,314.82 | 103.02 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,302.08 | 104.65 | Zone 1 |
| J-158 | 22.45 | 5,060.32 | 5,302.09 | 104.76 | Zone 1 |
| J-304 | 8.98 | 5,072.38 | 5,314.83 | 105.05 | Zone 1 |
| J-164 | 15.72 | 5,059.45 | 5,301.99 | 105.09 | Zone 1 |
| J-152 | 11.23 | 5,058.73 | 5,301.97 | 105.39 | Zone 1 |
| J-163 | 14.6 | 5,058.71 | 5,302.01 | 105.42 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,289.13 | 105.89 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,289.04 | 105.9 | Zone 4 |
| J-165 | 23.58 | 5,057.28 | 5,302.03 | 106.05 | Zone 1 |
| J-153 | 10.1 | 5,056.40 | 5,301.97 | 106.4 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,301.99 | 107.05 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,289.79 | 107.37 | Zone 4 |
| J-154 | 15.69 | 5,053.62 | 5,301.98 | 107.62 | Zone 1 |
| J-828 | 0 | 5,041.01 | 5,290.58 | 108.14 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,290.84 | 108.27 | Zone 4 |
| J-155 | 8.98 | 5,051.81 | 5,301.97 | 108.39 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,301.99 | 108.74 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,301.93 | 108.88 | Zone 1 |
| J-611 | 7.86 | 5,049.06 | 5,302.25 | 109.71 | Zone 1 |
| J-612 | 11.96 | 5,047.26 | 5,302.25 | 110.48 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-8 | 8.98 | 5,054.92 | 5,315.18 | 112.77 | Zone 1 |
| J-48 | 16.84 | 5,042.96 | 5,303.33 | 112.82 | Zone 1 |
| J-47 | 13.47 | 5,043.03 | 5,303.48 | 112.85 | Zone 1 |
| J-49 | 16.84 | 5,042.76 | 5,303.27 | 112.88 | Zone 1 |
| J-10 | 8.98 | 5,052.43 | 5,313.96 | 113.32 | Zone 1 |
| J-35 | 12.35 | 5,040.53 | 5,304.01 | 114.17 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,304.74 | 114.22 | Zone 1 |
| J-1252IRF | 14.18 | 5,040.67 | 5,304.58 | 114.35 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,304.74 | 114.59 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,304.74 | 114.66 | Zone 1 |
| J-9 | 8.98 | 5,049.50 | 5,314.40 | 114.78 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,304.75 | 114.82 | Zone 1 |
| J-13 | 8.96 | 5,039.32 | 5,304.75 | 115.01 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,307.94 | 117.05 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,311.53 | 120.06 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-423 | J-242 | ERPUMPST | 50 | 6 | 140 | 414 | 4.7 | 0.63 | 12.64 | Zone 1 |
| P-424 | ERPUMPST | J-243 | 126 | 6 | 140 | 414 | 4.7 | 1.6 | 12.64 | Zone 1 |
| P-318 | WELL6 | J-192 | 602 | 8 | 140 | 678 | 4.33 | 4.66 | 7.74 | Zone 4 |
| P-1392 | J-826 | J-828 | 46 | 8 | 140 | 569 | 3.63 | 0.26 | 5.6 | Zone 3 |
| P-1965 | WELL1 | J-826 | 79 | 8 | 140 | 569 | 3.63 | 0.44 | 5.6 | Zone 4 |
| P-1393 | J-828 | J-827 | 141 | 8 | 140 | 569 | 3.63 | 0.79 | 5.6 | Zone 1 |
| P-1326 | NDYKEWEL | NDYKEWE | 83 | 10 | 140 | 860 | 3.51 | 0.34 | 4.06 | Zone 2 |
| P-1325 | R-5 | NDYKEWEL | 28 | 10 | 140 | 860 | 3.51 | 0.11 | 4.07 | Zone 4 |
| P-1324 | NDYKEWE | J-797 | 45 | 10 | 140 | 860 | 3.51 | 0.18 | 4.06 | Zone 4 |
| P-26 | J-23 | ERTOWNCA | 2116 | 8 | 140 | 486 | 3.11 | 8.86 | 4.18 | Zone 2 |
| P-317 | J-192 | J-3 | 1062 | 12 | 120 | 1003 | 2.85 | 3.13 | 2.95 | Zone 1 |
| P-4(1) | J-3 | J-1262 | 234 | 12 | 120 | 1003 | 2.85 | 0.69 | 2.95 | Zone 2 |
| P-4(2) | J-1262 | J-4 | 263 | 12 | 120 | 998 | 2.83 | 0.77 | 2.92 | Zone 1 |
| P-1320 | J-797 | J-54 | 442 | 8 | 110 | 443 | 2.83 | 2.43 | 5.5 | Zone 2 |
| P-676 | J-388 | J-23 | 519 | 10 | 140 | 630 | 2.57 | 1.18 | 2.27 | Zone 1 |
| P-1321 | J-797 | J-63 | 1141 | 8 | 110 | 401 | 2.56 | 5.23 | 4.58 | Zone 1 |
| P-419 | J-242 | TANK4 | 92 | 14 | 140 | -1207 | 2.51 | 0.14 | 1.48 | Zone 1 |
| P-69 | J-54 | J-55 | 485 | 6 | 140 | 209 | 2.37 | 1.72 | 3.55 | Zone 1 |
| P-1310 | R-3 | WELL1 | 32 | 10 | 140 | 569 | 2.32 | 0.06 | 1.89 | Zone 4 |
| P-1319 | J-795 | J-609 | 50 | 10 | 140 | 569 | 2.32 | 0.09 | 1.89 | Zone 4 |
| P-1391 | J-827 | J-795 | 352 | 10 | 140 | 569 | 2.32 | 0.66 | 1.89 | Zone 4 |
| P-139 | J-609 | J-608 | 2481 | 10 | 140 | 569 | 2.32 | 4.69 | 1.89 | Zone 4 |
| P-138 | J-608 | J-252 | 1660 | 10 | 140 | 569 | 2.32 | 3.13 | 1.89 | Zone 4 |
| P-40 | J-13 | J-35 | 302 | 8 | 140 | 363 | 2.32 | 0.74 | 2.44 | Zone 2 |
| P-331 | J-4 | J-189 | 218 | 8 | 140 | 354 | 2.26 | 0.51 | 2.32 | Zone 2 |
| P-1 | TANK1 | J-1 | 813 | 8 | 120 | 331 | 2.11 | 2.21 | 2.72 | Zone 2 |
| P-315 | WELL7 | WELL6 | 1186 | 8 | 140 | 326 | 2.08 | 2.37 | 2 | Zone 1 |
| P-673 | J-189 | J-387 | 352 | 4 | 140 | 78 | 1.99 | 1.45 | 4.12 | Zone 2 |
| P-27 | ERTOWNCA | J-25 | 506 | 10 | 140 | 481 | 1.97 | 0.7 | 1.38 | Zone 1 |
| P-963 | J-25 | J-596 | 123 | 10 | 140 | 481 | 1.97 | 0.17 | 1.38 | Zone 1 |
| P-965 | J-596 | J-595 | 86 | 10 | 140 | 481 | 1.97 | 0.12 | 1.38 | Zone 1 |
| P-962 | J-595 | J-592 | 260 | 10 | 140 | 477 | 1.95 | 0.35 | 1.36 | Zone 1 |
| P-982 | J-49 | J-612 | 583 | 8 | 140 | 304 | 1.94 | 1.02 | 1.75 | Zone 1 |
| P-985 | J-612 | J-36 | 165 | 8 | 140 | 284 | 1.81 | 0.25 | 1.54 | Zone 4 |
| P-57 | J-35 | J-49 | 497 | 8 | 140 | 280 | 1.79 | 0.75 | 1.5 | Zone 1 |
| P-675 | J-4 | J-388 | 2121 | 12 | 140 | 630 | 1.79 | 1.99 | 0.94 | Zone 1 |
| P-337 | J-189 | J-190 | 480 | 8 | 140 | 276 | 1.76 | 0.71 | 1.47 | Zone 1 |
| P-338 | J-190 | J-191 | 267 | 8 | 140 | 276 | 1.76 | 0.39 | 1.47 | Zone 1 |
| P-178 | J-53 | J-112 | 531 | 6 | 140 | 151 | 1.71 | 1.03 | 1.94 | Zone 2 |
| P-463 | TANK3 | J-243 | 652 | 10 | 140 | -414 | 1.69 | 0.68 | 1.05 | Zone 4 |
| P-1233 | J-760 | J-242 | 1317 | 14 | 130 | -792 | 1.65 | 1.02 | 0.78 | Zone 4 |
| P-13 | J-12 | J-13 | 2214 | 10 | 110 | 387 | 1.58 | 3.19 | 1.44 | Zone 1 |
| P-11 | J-10 | J-11 | 1692 | 10 | 110 | 387 | 1.58 | 2.44 | 1.44 | Zone 1 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-12 | J-11 | J-12 | 2490 | 10 | 110 | 387 | 1.58 | 3.59 | 1.44 | Zone 1 |
| P-1228 | J-241 | J-760 | 13 | 14 | 140 | -756 | 1.58 | 0.01 | 0.62 | Zone 2 |
| P-586 | J-36 | J-344 | 56 | 8 | 140 | 246 | 1.57 | 0.07 | 1.18 | Zone 1 |
| P-587 | J-344 | (COLDSPR | 41 | 8 | 140 | 246 | 1.57 | 0.05 | 1.17 | Zone 2 |
| P-322(1) | (COLDSPR | J-1245 | 39 | 8 | 140 | 244 | 1.56 | 0.05 | 1.17 | Zone 1 |
| 322(2) | J-1245 | J-1246 | 454 | 8 | 140 | 244 | 1.56 | 0.53 | 1.17 | Zone 1 |
| 322(2) | J-1246 | J-53 | 215 | 8 | 140 | 244 | 1.56 | 0.25 | 1.17 | Zone 2 |
| P-534 | J-289 | J-304 | 401 | 8 | 140 | 235 | 1.5 | 0.43 | 1.08 | Zone 1 |
| P-67 | J-54 | J-15 | 955 | 8 | 110 | 229 | 1.46 | 1.55 | 1.62 | Zone 2 |
| P-777(1) | WELL8 | J-23-1222 | 78 | 10 | 140 | 354 | 1.45 | 0.06 | 0.79 | Zone 2 |
| P-153 | J-57 | J-102 | 374 | 6 | 140 | 125 | 1.42 | 0.51 | 1.37 | Zone 2 |
| P-48 | J-15 | J-42 | 331 | 8 | 110 | 218 | 1.39 | 0.49 | 1.49 | Zone 2 |
| P-533 | J-304 | J-9 | 460 | 8 | 140 | 217 | 1.38 | 0.43 | 0.93 | Zone 1 |
| P-147 | J-43 | J-101 | 346 | 8 | 140 | 214 | 1.37 | 0.32 | 0.92 | Zone 2 |
| P-447 | J-42 | J-255 | 249 | 8 | 140 | 213 | 1.36 | 0.23 | 0.91 | Zone 2 |
| P-677 | J-184 | J-389 | 93 | 8 | 140 | -204 | 1.3 | 0.08 | 0.84 | Zone 4 |
| P-576 | J-331 | J-337 | 264 | 8 | 140 | 204 | 1.3 | 0.22 | 0.84 | Zone 1 |
| P-148 | J-101 | J-44 | 342 | 8 | 140 | 198 | 1.27 | 0.27 | 0.79 | Zone 2 |
| P-73 | J-58 | J-43 | 392 | 8 | 140 | 197 | 1.26 | 0.31 | 0.79 | Zone 2 |
| P-1345 | J-255 | J-50 | 228 | 8 | 140 | 195 | 1.25 | 0.18 | 0.77 | Zone 2 |
| P-823 | J-480 | J-241 | 184 | 14 | 140 | -587 | 1.22 | 0.07 | 0.39 | Zone 1 |
| P-770 | J-28 | J-331 | 185 | 10 | 140 | 296 | 1.21 | 0.1 | 0.56 | Zone 1 |
| P-961 | J-594 | J-27 | 683 | 10 | 140 | 296 | 1.21 | 0.38 | 0.56 | Zone 1 |
| P-30 | J-27 | J-28 | 1146 | 10 | 140 | 296 | 1.21 | 0.64 | 0.56 | Zone 1 |
| P-824 | J-398 | J-480 | 112 | 14 | 140 | -566 | 1.18 | 0.04 | 0.36 | Zone 4 |
| P-826 | J-395 | J-481 | 114 | 14 | 140 | -545 | 1.14 | 0.04 | 0.34 | Zone 2 |
| P-76 | J-55 | J-59 | 544 | 6 | 140 | 99 | 1.13 | 0.49 | 0.9 | Zone 2 |
| P-70 | J-55 | J-56 | 484 | 6 | 140 | 99 | 1.12 | 0.43 | 0.89 | Zone 4 |
| P-508 | J-191 | J-289 | 824 | 8 | 140 | 175 | 1.12 | 0.52 | 0.63 | Zone 1 |
| P-84 | J-63 | J-40 | 1489 | 10 | 140 | 272 | 1.11 | 0.72 | 0.48 | Zone 2 |
| P-825 | J-481 | J-398 | 175 | 14 | 140 | -530 | 1.1 | 0.06 | 0.32 | Zone 1 |
| P-984 | J-9 | J-10 | 987 | 10 | 140 | 259 | 1.06 | 0.43 | 0.44 | Zone 1 |
| P-1346 | J-50 | J-58 | 384 | 8 | 140 | 162 | 1.03 | 0.21 | 0.54 | Zone 3 |
| P-75 | J-59 | J-57 | 486 | 6 | 140 | 90 | 1.02 | 0.37 | 0.75 | Zone 2 |
| P-530 | J-252 | J-302 | 325 | 10 | 140 | 247 | 1.01 | 0.13 | 0.4 | Zone 1 |
| P-1312 | R-4 | WELL8_P | 15 | 12 | 140 | 354 | 1 | 0 | 0.32 | Zone 4 |
| P-1313 | WELL8_P | WELL8 | 18 | 12 | 140 | 354 | 1 | 0.01 | 0.32 | Zone 4 |
| P-1307 | R-2 | WELL6_P | 16 | 12 | 140 | 351 | 1 | 0.01 | 0.33 | Zone 4 |
| P-1306 | WELL6_P | WELL6 | 31 | 12 | 140 | 351 | 1 | 0.01 | 0.33 | Zone 1 |
| P-698 | J-399 | J-395 | 172 | 14 | 140 | -477 | 0.99 | 0.05 | 0.26 | Zone 1 |
| P-1174 | J-732 | J-688 | 219 | 6 | 140 | -84 | 0.95 | 0.14 | 0.65 | Zone 4 |
| P-1173 | J-730 | J-732 | 51 | 6 | 140 | -84 | 0.95 | 0.03 | 0.66 | Zone 4 |
| P-146 | J-100 | J-91 | 441 | 6 | 140 | 83 | 0.94 | 0.28 | 0.64 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

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|----------|------------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-2 | J-1 | J-2 | 910 | 12 | 120 | 331 | 0.94 | 0.34 | 0.38 | Zone 1 |
| P-316 | J-2 | J-192 | 912 | 12 | 120 | 331 | 0.94 | 0.34 | 0.38 | Zone 1 |
| P-71 | J-56 | J-57 | 665 | 6 | 140 | 83 | 0.94 | 0.42 | 0.64 | Zone 3 |
| P-1304 | WELL7_P | WELL7 | 20 | 12 | 140 | 326 | 0.93 | 0.01 | 0.26 | Zone 1 |
| P-1303 | R-1 | WELL7_P | 32 | 12 | 140 | 326 | 0.93 | 0.01 | 0.27 | Zone 1 |
| P-152 | J-102 | J-100 | 351 | 6 | 140 | 79 | 0.9 | 0.21 | 0.59 | Zone 3 |
| P-777(2) | J-23-1222 | J-423 | 817 | 10 | 140 | 217 | 0.88 | 0.26 | 0.32 | Zone 4 |
| P-1505 | J-23-1220 | J-23-1221 | 107 | 8 | 140 | -137 | 0.88 | 0.04 | 0.4 | Zone 1 |
| P-1504 | J-23-1219 | J-23-1220 | 71 | 8 | 140 | -137 | 0.88 | 0.03 | 0.41 | Zone 1 |
| P-1506 | J-23-1221 | J-23-1222 | 86 | 8 | 140 | -137 | 0.88 | 0.03 | 0.4 | Zone 2 |
| P-334 | J-33 | RACOBOOS | 411 | 8 | 140 | 135 | 0.86 | 0.16 | 0.39 | Zone 2 |
| P-335 | RACOBOOS | J-135 | 176 | 8 | 140 | 135 | 0.86 | 0.07 | 0.39 | Zone 1 |
| 502(1) | J-23-1215 | J-23-1219 | 81 | 8 | 140 | -134 | 0.85 | 0.03 | 0.38 | Zone 4 |
| P-680 | J-389 | J-390 | 376 | 10 | 140 | -207 | 0.85 | 0.11 | 0.29 | Zone 1 |
| P-151 | J-102 | J-38 | 876 | 6 | 140 | 74 | 0.84 | 0.46 | 0.53 | Zone 2 |
| P-1501 | J-23-1214 | J-23-1215 | 41 | 8 | 140 | -132 | 0.84 | 0.02 | 0.37 | Zone 2 |
| P-1500 | J-23-1213 | J-23-1214 | 49 | 8 | 140 | -131 | 0.84 | 0.02 | 0.38 | Zone 1 |
| P-699 | J-391 | J-399 | 143 | 12 | 140 | -290 | 0.82 | 0.03 | 0.22 | Zone 4 |
| P-49 | J-37 | J-43 | 847 | 6 | 140 | 72 | 0.82 | 0.42 | 0.5 | Zone 4 |
| P-1499 | J22-882 | J-23-1213 | 278 | 8 | 140 | -127 | 0.81 | 0.1 | 0.35 | Zone 4 |
| P-55 | J-35 | J-47 | 1098 | 6 | 140 | 71 | 0.81 | 0.53 | 0.48 | Zone 1 |
| 22-N-7 | J22-1175 | J22-882 | 16 | 8 | 140 | -124 | 0.79 | 0.01 | 0.34 | Zone 2 |
| 22-N-7 | J22-1089 | J22-1175 | 32 | 8 | 140 | -124 | 0.79 | 0.01 | 0.33 | Zone 4 |
| P-827 | J-482 | J-391 | 159 | 12 | 140 | -277 | 0.79 | 0.03 | 0.21 | Zone 4 |
| P-438 | J-252 | J-251 | 442 | 10 | 140 | 191 | 0.78 | 0.11 | 0.25 | Zone 4 |
| P-959 | J-592 | J-589 | 340 | 10 | 140 | 190 | 0.78 | 0.08 | 0.25 | Zone 4 |
| P-1216 | J-758 | J-399 | 325 | 10 | 140 | -188 | 0.77 | 0.08 | 0.24 | Zone 4 |
| P-1215 | J-757 | J-758 | 424 | 10 | 140 | -181 | 0.74 | 0.1 | 0.23 | Zone 4 |
| P-1120 | J-482 | J-679 | 119 | 6 | 140 | 64 | 0.73 | 0.05 | 0.4 | Zone 2 |
| P-342 | J-195 | J-184 | 195 | 8 | 140 | -114 | 0.73 | 0.06 | 0.28 | Zone 2 |
| P-436 | J-251 | J-250 | 302 | 10 | 140 | 176 | 0.72 | 0.07 | 0.22 | Zone 1 |
| P-1095 | FH-925 | J-PH19IRR1 | 190 | 10 | 140 | -173 | 0.71 | 0.04 | 0.21 | Zone 4 |
| P-1094 | J-685 | FH-925 | 120 | 10 | 140 | -173 | 0.71 | 0.02 | 0.21 | Zone 2 |
| P-1213 | J-PH19IRR1 | J-757 | 62 | 10 | 140 | -173 | 0.71 | 0.01 | 0.2 | Zone 4 |
| P-1082 | FH-926 | J-685 | 330 | 10 | 140 | -173 | 0.71 | 0.07 | 0.21 | Zone 4 |
| P-1090 | J-675 | FH-927 | 59 | 10 | 140 | -173 | 0.71 | 0.01 | 0.21 | Zone 4 |
| P-1091 | FH-927 | FH-926 | 303 | 10 | 140 | -173 | 0.71 | 0.06 | 0.21 | Zone 4 |
| P-83 | J-63 | J-16 | 1068 | 8 | 110 | 110 | 0.7 | 0.45 | 0.42 | Zone 1 |
| P-93 | J-71 | J-70 | 252 | 8 | 140 | 110 | 0.7 | 0.07 | 0.27 | Zone 2 |
| P-529 | J-302 | J-300 | 262 | 10 | 140 | 172 | 0.7 | 0.05 | 0.2 | Zone 2 |
| P-693 | J-392 | J-396 | 462 | 10 | 140 | -170 | 0.7 | 0.09 | 0.2 | Zone 2 |
| P-1191 | J-743 | J-742 | 132 | 10 | 140 | -169 | 0.69 | 0.03 | 0.2 | Zone 4 |
| P-1189 | J-742 | J-241 | 118 | 10 | 140 | -169 | 0.69 | 0.02 | 0.2 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-------------|-------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-434 | J-250 | J-246 | 311 | 10 | 140 | 168 | 0.69 | 0.06 | 0.2 | Zone 1 |
| P-1035 | J-592 | J-644 | 567 | 10 | 140 | 166 | 0.68 | 0.11 | 0.19 | Zone 4 |
| P-978 | J-592 | J-606 | 661 | 8 | 140 | 106 | 0.68 | 0.16 | 0.25 | Zone 4 |
| P-343 | J-196 | J-195 | 273 | 8 | 140 | -105 | 0.67 | 0.07 | 0.25 | Zone 3 |
| P-97 | J-70 | J-74 | 290 | 8 | 140 | 104 | 0.66 | 0.07 | 0.24 | Zone 4 |
| P-1192 | J-396 | J-743 | 405 | 10 | 140 | -161 | 0.66 | 0.07 | 0.18 | Zone 4 |
| P-56 | J-47 | J-48 | 478 | 6 | 140 | 58 | 0.65 | 0.16 | 0.33 | Zone 4 |
| P-685 | J-390 | J-392 | 472 | 10 | 140 | -160 | 0.65 | 0.09 | 0.18 | Zone 4 |
| P-582 | J-337 | J-341 | 296 | 8 | 140 | 102 | 0.65 | 0.07 | 0.23 | Zone 2 |
| P-344 | J-197 | J-196 | 183 | 8 | 140 | -102 | 0.65 | 0.04 | 0.23 | Zone 4 |
| P-1546 | J-706 | J-1252IRR | 196 | 3 | 130 | 14 | 0.64 | 0.16 | 0.82 | Zone 4 |
| P-958 | J-589 | J-591 | 197 | 10 | 140 | 157 | 0.64 | 0.03 | 0.17 | Zone 2 |
| P-957 | J-591 | J-385 | 669 | 10 | 140 | 157 | 0.64 | 0.12 | 0.17 | Zone 3 |
| P-1141 | J-714 | J-671 | 95 | 6 | 140 | -56 | 0.63 | 0.03 | 0.31 | Zone 1 |
| P-345 | J-198 | J-197 | 215 | 8 | 140 | -99 | 0.63 | 0.05 | 0.22 | Zone 1 |
| -N-15-1 | J22-1088 | J22-IRR-117 | 50 | 10 | 140 | -154 | 0.63 | 0.01 | 0.17 | Zone 2 |
| -N-15-2 | J22-IRR-117 | J22-1089 | 276 | 10 | 140 | -154 | 0.63 | 0.05 | 0.17 | Zone 1 |
| P-938 | J-483 | J-576 | 490 | 6 | 140 | 55 | 0.63 | 0.15 | 0.3 | Zone 4 |
| P-552 | J-318 | J-311 | 307 | 8 | 140 | 97 | 0.62 | 0.06 | 0.21 | Zone 4 |
| P-966 | J-597 | J-594 | 185 | 10 | 140 | 148 | 0.61 | 0.03 | 0.16 | Zone 4 |
| P-828 | J-352 | J-482 | 141 | 12 | 140 | -213 | 0.61 | 0.02 | 0.13 | Zone 4 |
| P-964 | J-385 | J-594 | 655 | 10 | 140 | 148 | 0.6 | 0.1 | 0.16 | Zone 2 |
| P-1037 | J-645 | J-646 | 444 | 10 | 140 | 147 | 0.6 | 0.07 | 0.15 | Zone 1 |
| P-1036 | J-644 | J-645 | 470 | 10 | 140 | 147 | 0.6 | 0.07 | 0.15 | Zone 4 |
| P-764 | J-441 | J-346 | 520 | 6 | 140 | -53 | 0.6 | 0.14 | 0.28 | Zone 1 |
| P-583 | J-341 | J-342 | 233 | 8 | 140 | 93 | 0.6 | 0.05 | 0.19 | Zone 1 |
| P-584 | J-342 | J-339 | 195 | 8 | 140 | 93 | 0.6 | 0.04 | 0.2 | Zone 1 |
| P-1099 | J-678 | FH-922 | 76 | 6 | 140 | 52 | 0.59 | 0.02 | 0.27 | Zone 3 |
| P-1098 | FH-922 | J-677 | 233 | 6 | 140 | 52 | 0.59 | 0.06 | 0.27 | Zone 3 |
| P-1101 | FH-921 | J-678 | 237 | 6 | 140 | 52 | 0.59 | 0.06 | 0.27 | Zone 3 |
| P-1100 | J-679 | FH-921 | 205 | 6 | 140 | 52 | 0.59 | 0.05 | 0.27 | Zone 2 |
| 2-N-15-1 | J22-1087 | J22-1088 | 349 | 10 | 140 | -144 | 0.59 | 0.05 | 0.15 | Zone 4 |
| P-9 | J-8 | J-9 | 2237 | 6 | 120 | 51 | 0.58 | 0.79 | 0.35 | Zone 2 |
| P-975 | J-606 | J-604 | 482 | 8 | 140 | 90 | 0.58 | 0.09 | 0.18 | Zone 2 |
| P-339 | J-191 | J-193 | 847 | 8 | 140 | 87 | 0.56 | 0.15 | 0.17 | Zone 4 |
| P-25 | J-23 | J-10 | 1879 | 10 | 140 | 136 | 0.56 | 0.25 | 0.13 | Zone 4 |
| P-112 | J-80 | J-33 | 816 | 10 | 140 | 135 | 0.55 | 0.11 | 0.13 | Zone 1 |
| P-579 | J-339 | J-161 | 418 | 8 | 140 | 85 | 0.55 | 0.07 | 0.17 | Zone 3 |
| P-776 | J-337 | J-158 | 1465 | 8 | 140 | 85 | 0.54 | 0.24 | 0.16 | Zone 1 |
| P-974 | J-604 | J-597 | 338 | 8 | 140 | 83 | 0.53 | 0.05 | 0.16 | Zone 4 |
| P-1068 | J-669 | J-670 | 75 | 6 | 140 | 47 | 0.53 | 0.02 | 0.22 | Zone 1 |
| P-150 | J-43 | J-102 | 570 | 6 | 140 | 47 | 0.53 | 0.13 | 0.22 | Zone 4 |
| P-766 | J-442 | J-348 | 605 | 6 | 140 | -46 | 0.53 | 0.13 | 0.22 | Zone 4 |

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Distribution System Pipe Report

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|----------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1102 | J-576 | J-570 | 779 | 6 | 140 | 46 | 0.53 | 0.17 | 0.22 | Zone 4 |
| P-500 | J-184 | J-286 | 308 | 8 | 140 | 82 | 0.52 | 0.05 | 0.15 | Zone 4 |
| P-525 | J-298 | J-300 | 268 | 10 | 140 | -125 | 0.51 | 0.03 | 0.11 | Zone 1 |
| P-1067 | J-673 | J-654 | 180 | 8 | 140 | 80 | 0.51 | 0.03 | 0.15 | Zone 4 |
| P-1066 | J-449 | J-673 | 230 | 8 | 140 | 80 | 0.51 | 0.03 | 0.15 | Zone 4 |
| P-763 | J-283 | J-441 | 307 | 6 | 140 | -45 | 0.51 | 0.06 | 0.2 | Zone 4 |
| P-439 | J-252 | J-247 | 822 | 10 | 140 | 123 | 0.5 | 0.09 | 0.11 | Zone 4 |
| P-169 | J-112 | J-113 | 344 | 8 | 140 | 79 | 0.5 | 0.05 | 0.14 | Zone 2 |
| P-340 | J-193 | J-5 | 1510 | 8 | 140 | 78 | 0.5 | 0.21 | 0.14 | Zone 4 |
| P-259(2) | J-1242 | J-165 | 357 | 8 | 140 | 78 | 0.5 | 0.05 | 0.14 | Zone 2 |
| P-259(1) | J-158 | J-1242 | 44 | 8 | 140 | 78 | 0.5 | 0.01 | 0.15 | Zone 2 |
| P-751 | J-286 | J-438 | 718 | 6 | 140 | 44 | 0.5 | 0.14 | 0.2 | Zone 2 |
| P-674 | J-387 | J-306 | 465 | 8 | 140 | 78 | 0.5 | 0.06 | 0.14 | Zone 4 |
| P-1235 | J-656 | J-761 | 254 | 8 | 140 | 77 | 0.49 | 0.04 | 0.14 | Zone 4 |
| P-749 | J-284 | J-437 | 759 | 6 | 140 | 42 | 0.48 | 0.14 | 0.19 | Zone 2 |
| P-1038 | J-646 | J-647 | 363 | 10 | 140 | 118 | 0.48 | 0.04 | 0.1 | Zone 3 |
| P-768 | J-443 | J-352 | 684 | 6 | 140 | -42 | 0.48 | 0.13 | 0.18 | Zone 4 |
| P-475 | J-113 | J-274 | 337 | 8 | 140 | 75 | 0.48 | 0.04 | 0.13 | Zone 1 |
| P-110 | J-78 | J-80 | 186 | 10 | 140 | 114 | 0.47 | 0.02 | 0.1 | Zone 1 |
| P-1108 | FH-919 | J-570 | 65 | 6 | 140 | -41 | 0.47 | 0.01 | 0.18 | Zone 2 |
| P-1049 | J-654 | J-656 | 264 | 8 | 140 | 73 | 0.46 | 0.03 | 0.12 | Zone 4 |
| P-65 | J-53 | J-37 | 607 | 8 | 140 | 72 | 0.46 | 0.07 | 0.12 | Zone 2 |
| P-829 | J-483 | J-352 | 144 | 12 | 140 | -162 | 0.46 | 0.01 | 0.07 | Zone 4 |
| P-1084 | J-687 | J-675 | 169 | 10 | 140 | -112 | 0.46 | 0.02 | 0.09 | Zone 4 |
| P-1085 | J-688 | J-687 | 154 | 10 | 140 | -112 | 0.46 | 0.01 | 0.09 | Zone 4 |
| P-700 | J-311 | J-400 | 237 | 6 | 140 | 40 | 0.46 | 0.04 | 0.17 | Zone 4 |
| P-91 | J-16 | J-71 | 556 | 10 | 110 | 110 | 0.45 | 0.08 | 0.14 | Zone 4 |
| P-204 | J-136 | J-135 | 929 | 10 | 140 | -110 | 0.45 | 0.08 | 0.09 | Zone 4 |
| P-6 | J-5 | J-6 | 888 | 8 | 120 | 69 | 0.44 | 0.13 | 0.15 | Zone 1 |
| P-507 | J-290 | J-289 | 725 | 8 | 140 | 69 | 0.44 | 0.08 | 0.11 | Zone 2 |
| P-536 | J-306 | J-290 | 170 | 8 | 140 | 69 | 0.44 | 0.02 | 0.11 | Zone 4 |
| P-560 | J-325 | J-324 | 374 | 6 | 140 | 39 | 0.44 | 0.06 | 0.16 | Zone 1 |
| P-765 | J-284 | J-442 | 439 | 6 | 140 | -38 | 0.44 | 0.07 | 0.15 | Zone 4 |
| P-601 | J-44 | J-355 | 92 | 10 | 140 | 107 | 0.44 | 0.01 | 0.09 | Zone 4 |
| P-600 | J-355 | J-45 | 395 | 10 | 140 | 107 | 0.44 | 0.03 | 0.09 | Zone 4 |
| P-1079 | FH-929 | J-681 | 259 | 6 | 140 | -38 | 0.43 | 0.04 | 0.15 | Zone 3 |
| P-1080 | J-683 | FH-929 | 299 | 6 | 140 | -38 | 0.43 | 0.04 | 0.15 | Zone 1 |
| P-936 | J-247 | J-319 | 411 | 10 | 140 | 105 | 0.43 | 0.03 | 0.08 | Zone 4 |
| P-85 | J-40 | J-64 | 738 | 10 | 140 | 104 | 0.43 | 0.06 | 0.08 | Zone 2 |
| 22-N-6 | J22-1092 | ELEMSCHO | 35 | 4 | 140 | 17 | 0.43 | 0.01 | 0.24 | Zone 2 |
| P-1058 | J-452 | J-663 | 209 | 6 | 140 | 37 | 0.43 | 0.03 | 0.15 | Zone 4 |
| P-1092 | J-674 | FH-924 | 47 | 6 | 140 | -37 | 0.42 | 0.01 | 0.15 | Zone 4 |
| P-1097 | J-677 | FH-923 | 73 | 6 | 140 | 37 | 0.42 | 0.01 | 0.15 | Zone 2 |

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Distribution System Pipe Report

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|---------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1093 | FH-924 | J-676 | 209 | 6 | 140 | -37 | 0.42 | 0.03 | 0.15 | Zone 4 |
| P-1096 | FH-923 | J-676 | 284 | 6 | 140 | 37 | 0.42 | 0.04 | 0.15 | Zone 2 |
| P-450 | J-246 | J-256 | 266 | 10 | 140 | 102 | 0.42 | 0.02 | 0.08 | Zone 4 |
| P-1230 | J-759 | J-760 | 89 | 6 | 140 | -36 | 0.41 | 0.01 | 0.14 | Zone 4 |
| P-1217 | J-747 | J-759 | 168 | 6 | 140 | -36 | 0.41 | 0.02 | 0.14 | Zone 4 |
| P-551 | J-313 | J-311 | 246 | 8 | 140 | -64 | 0.41 | 0.02 | 0.1 | Zone 4 |
| P-756 | J-302 | J-266 | 757 | 6 | 140 | 36 | 0.41 | 0.1 | 0.14 | Zone 4 |
| P-467 | J-265 | J-267 | 405 | 10 | 140 | 100 | 0.41 | 0.03 | 0.07 | Zone 4 |
| P-1070 | J-670 | J-671 | 204 | 6 | 140 | 36 | 0.4 | 0.03 | 0.13 | Zone 4 |
| P-74 | J-57 | J-58 | 581 | 6 | 140 | 35 | 0.4 | 0.08 | 0.13 | Zone 4 |
| P-760 | J-323 | J-324 | 152 | 6 | 140 | -35 | 0.4 | 0.02 | 0.13 | Zone 2 |
| P-767 | J-286 | J-443 | 581 | 6 | 140 | -35 | 0.4 | 0.08 | 0.13 | Zone 4 |
| P-553 | J-319 | J-318 | 155 | 10 | 140 | 97 | 0.39 | 0.01 | 0.07 | Zone 4 |
| P-346 | J-198 | J-199 | 233 | 8 | 140 | 61 | 0.39 | 0.02 | 0.09 | Zone 4 |
| P-546 | J-314 | J-298 | 255 | 10 | 140 | -95 | 0.39 | 0.02 | 0.07 | Zone 4 |
| P-1077 | J-680 | J-674 | 191 | 6 | 140 | -34 | 0.39 | 0.02 | 0.13 | Zone 4 |
| P-701 | J-400 | J-401 | 262 | 6 | 140 | 34 | 0.39 | 0.03 | 0.12 | Zone 4 |
| P-691 | J-394 | J-395 | 615 | 8 | 140 | -61 | 0.39 | 0.05 | 0.09 | Zone 4 |
| P-8 | J-6 | J-8 | 834 | 8 | 120 | 60 | 0.39 | 0.1 | 0.12 | Zone 2 |
| P-452 | J-256 | J-257 | 285 | 10 | 140 | 94 | 0.39 | 0.02 | 0.07 | Zone 4 |
| J2-N-15 | J22-1086 | J22-1087 | 366 | 10 | 140 | -90 | 0.37 | 0.02 | 0.06 | Zone 2 |
| J2-N-15 | J22-1085 | J22-1086 | 289 | 10 | 140 | -90 | 0.37 | 0.02 | 0.06 | Zone 2 |
| P-550 | J-316 | J-313 | 274 | 8 | 140 | -58 | 0.37 | 0.02 | 0.08 | Zone 4 |
| P-1107 | J-667 | FH-919 | 199 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-1105 | J-666 | FH-920 | 64 | 6 | 140 | -32 | 0.37 | 0.01 | 0.11 | Zone 4 |
| P-1106 | FH-920 | J-667 | 192 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-1040 | J-647 | J-597 | 339 | 10 | 140 | 90 | 0.37 | 0.02 | 0.06 | Zone 1 |
| P-206 | J-137 | J-136 | 1236 | 10 | 140 | -89 | 0.36 | 0.07 | 0.06 | Zone 2 |
| P-715 | J-415 | J-404 | 198 | 6 | 140 | 32 | 0.36 | 0.02 | 0.11 | Zone 4 |
| P-1167 | J-714 | J-728 | 224 | 6 | 140 | 32 | 0.36 | 0.02 | 0.11 | Zone 4 |
| P-492 | J-283 | J-281 | 270 | 8 | 140 | 57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-80 | J-62 | J-40 | 414 | 10 | 140 | -88 | 0.36 | 0.02 | 0.06 | Zone 4 |
| P-118 | J-86 | J-85 | 384 | 8 | 140 | 56 | 0.36 | 0.03 | 0.08 | Zone 4 |
| P-780 | J-423 | J-449 | 474 | 12 | 140 | 126 | 0.36 | 0.02 | 0.05 | Zone 2 |
| P-537 | J-302 | J-307 | 398 | 6 | 140 | 32 | 0.36 | 0.04 | 0.11 | Zone 2 |
| P-720 | J-419 | J-297 | 219 | 10 | 140 | -87 | 0.35 | 0.01 | 0.06 | Zone 4 |
| P-1239 | J-761 | J-762 | 278 | 8 | 140 | 55 | 0.35 | 0.02 | 0.07 | Zone 4 |
| P-1056 | J-663 | J-661 | 243 | 6 | 140 | 31 | 0.35 | 0.02 | 0.1 | Zone 2 |
| P-260 | J-165 | J-163 | 364 | 8 | 140 | 55 | 0.35 | 0.03 | 0.07 | Zone 4 |
| P-1196 | J-744 | J-PH19IRR2 | 300 | 6 | 140 | -30 | 0.34 | 0.03 | 0.1 | Zone 2 |
| P-1212 | J-756 | J-744 | 50 | 6 | 140 | -30 | 0.34 | 0 | 0.1 | Zone 2 |
| P-752 | J-438 | J-439 | 244 | 6 | 140 | 30 | 0.34 | 0.02 | 0.1 | Zone 4 |
| P-168 | J-112 | J-111 | 1253 | 8 | 140 | 53 | 0.34 | 0.09 | 0.07 | Zone 3 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|------------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1204 | J-751 | J-749 | 296 | 6 | 140 | -30 | 0.34 | 0.03 | 0.1 | Zone 2 |
| P-1202 | J-749 | J-747 | 218 | 6 | 140 | -30 | 0.34 | 0.02 | 0.1 | Zone 2 |
| P-121 | J-64 | J-87 | 649 | 10 | 140 | 82 | 0.34 | 0.03 | 0.05 | Zone 4 |
| P-122 | J-87 | J-78 | 186 | 10 | 140 | 82 | 0.33 | 0.01 | 0.05 | Zone 2 |
| P-132 | J-91 | J-81 | 179 | 8 | 140 | 52 | 0.33 | 0.01 | 0.07 | Zone 4 |
| P-545 | J-297 | J-314 | 142 | 10 | 140 | -81 | 0.33 | 0.01 | 0.05 | Zone 4 |
| P-561 | J-281 | J-325 | 267 | 8 | 140 | 51 | 0.33 | 0.02 | 0.07 | Zone 4 |
| P-108 | J-76 | J-79 | 789 | 10 | 140 | 80 | 0.33 | 0.04 | 0.05 | Zone 2 |
| P-688 | J-393 | J-394 | 364 | 8 | 140 | -51 | 0.32 | 0.02 | 0.06 | Zone 3 |
| P-1121 | J-671 | J-683 | 176 | 6 | 140 | -28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P-453 | J-258 | J-233 | 236 | 10 | 140 | 78 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-499 | J-286 | J-284 | 253 | 8 | 140 | 50 | 0.32 | 0.02 | 0.06 | Zone 4 |
| P-98 | J-74 | J-73 | 315 | 8 | 140 | 49 | 0.31 | 0.02 | 0.06 | Zone 4 |
| P-95 | J-73 | J-72 | 405 | 8 | 140 | 49 | 0.31 | 0.02 | 0.06 | Zone 4 |
| P-1237 | J-766 | J22-1072 | 172 | 8 | 140 | 48 | 0.31 | 0.01 | 0.06 | Zone 4 |
| P-1352 | J-730 | J-806 | 250 | 10 | 140 | 75 | 0.31 | 0.01 | 0.04 | Zone 2 |
| P-134 | J-44 | ESELEMSCH | 892 | 10 | 140 | 75 | 0.3 | 0.04 | 0.04 | Zone 1 |
| P-830 | J-348 | J-483 | 158 | 12 | 140 | -106 | 0.3 | 0.01 | 0.03 | Zone 2 |
| P-686 | J-390 | J-393 | 303 | 8 | 140 | -47 | 0.3 | 0.02 | 0.05 | Zone 4 |
| P-572 | J-331 | J-427 | 331 | 8 | 140 | 46 | 0.3 | 0.02 | 0.05 | Zone 1 |
| P-742 | J-435 | J-229 | 145 | 8 | 140 | 46 | 0.29 | 0.01 | 0.05 | Zone 4 |
| P-755 | J-300 | J-294 | 625 | 6 | 140 | 26 | 0.29 | 0.05 | 0.07 | Zone 4 |
| P-757 | J-415 | J-316 | 478 | 8 | 140 | -45 | 0.29 | 0.02 | 0.05 | Zone 4 |
| P-723 | J-420 | J-419 | 247 | 10 | 140 | -70 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-127 | J-90 | J-85 | 317 | 10 | 140 | -70 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-1041 | J-570 | J-649 | 189 | 10 | 140 | 70 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-1042 | J-571 | J-649 | 81 | 10 | 140 | -70 | 0.29 | 0 | 0.04 | Zone 4 |
| P-196 | J-131 | J-92 | 421 | 8 | 140 | -45 | 0.28 | 0.02 | 0.05 | Zone 4 |
| P-109 | J-79 | J-77 | 865 | 8 | 140 | 45 | 0.28 | 0.04 | 0.05 | Zone 2 |
| P-1088 | FH-928 | J-680 | 127 | 6 | 140 | -25 | 0.28 | 0.01 | 0.07 | Zone 4 |
| P-1089 | J-681 | FH-928 | 189 | 6 | 140 | -25 | 0.28 | 0.01 | 0.07 | Zone 4 |
| P-454 | J-257 | J-258 | 198 | 10 | 140 | 69 | 0.28 | 0.01 | 0.04 | Zone 1 |
| P-363 | J-208 | J-215 | 304 | 8 | 140 | 44 | 0.28 | 0.01 | 0.05 | Zone 2 |
| P-130 | J-93 | J-90 | 206 | 10 | 140 | -68 | 0.28 | 0.01 | 0.04 | Zone 4 |
| P-476 | J-274 | J-114 | 337 | 8 | 140 | 43 | 0.27 | 0.02 | 0.05 | Zone 4 |
| P-1197 | J-PH19IRR2 | J-746 | 283 | 6 | 140 | -24 | 0.27 | 0.02 | 0.06 | Zone 4 |
| P-1203 | J-746 | J-751 | 55 | 6 | 140 | -24 | 0.27 | 0 | 0.07 | Zone 4 |
| P-750 | J-285 | J-437 | 68 | 8 | 140 | -42 | 0.27 | 0 | 0.05 | Zone 2 |
| P-1064 | J-486 | J-669 | 172 | 6 | 140 | 24 | 0.27 | 0.01 | 0.07 | Zone 4 |
| P-1071 | J-674 | J-570 | 271 | 10 | 140 | 64 | 0.26 | 0.01 | 0.03 | Zone 2 |
| P-1211 | J-755 | J-756 | 428 | 6 | 140 | -23 | 0.26 | 0.03 | 0.06 | Zone 2 |
| P-59 | J-48 | J-49 | 1409 | 8 | 140 | 41 | 0.26 | 0.06 | 0.04 | Zone 4 |
| P-1059 | J-665 | J-666 | 326 | 6 | 140 | -23 | 0.26 | 0.02 | 0.06 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1065 | J-669 | J-665 | 183 | 6 | 140 | -23 | 0.26 | 0.01 | 0.06 | Zone 3 |
| P-1349 | J-805 | J-50 | 40 | 6 | 140 | -23 | 0.26 | 0 | 0.06 | Zone 4 |
| P-1350 | J-194 | J-805 | 198 | 6 | 140 | -23 | 0.26 | 0.01 | 0.06 | Zone 4 |
| P-702 | J-401 | J-402 | 259 | 6 | 140 | 23 | 0.26 | 0.02 | 0.06 | Zone 4 |
| P-102 | J-40 | J-76 | 341 | 10 | 140 | 63 | 0.26 | 0.01 | 0.03 | Zone 2 |
| 22-146 | J22-1173 | J22-1087 | 31 | 8 | 140 | -40 | 0.26 | 0 | 0.05 | Zone 4 |
| 22-146 | J22-874 | J22-1173 | 16 | 8 | 140 | -40 | 0.26 | 0 | 0.03 | Zone 4 |
| P-705 | J-404 | J-405 | 285 | 6 | 140 | 23 | 0.26 | 0.02 | 0.06 | Zone 4 |
| P-257 | J-163 | J-164 | 392 | 8 | 140 | 40 | 0.26 | 0.02 | 0.04 | Zone 1 |
| P-1111 | FH-917 | FH-918 | 243 | 6 | 140 | -22 | 0.25 | 0.01 | 0.06 | Zone 4 |
| P-1109 | J-658 | FH-917 | 111 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 4 |
| P-1110 | FH-918 | J-659 | 45 | 6 | 140 | -22 | 0.25 | 0 | 0.05 | Zone 4 |
| 22-N-15 | J22-1084 | J22-1085 | 278 | 10 | 140 | -62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-262 | J-161 | J-166 | 304 | 8 | 140 | 40 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-1072 | J-675 | J-674 | 186 | 10 | 140 | 62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-461 | J-246 | J-265 | 195 | 10 | 140 | 62 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1033 | J-642 | J-571 | 79 | 10 | 140 | -62 | 0.25 | 0 | 0.03 | Zone 4 |
| P-1026 | J-613 | J-639 | 141 | 10 | 140 | -62 | 0.25 | 0 | 0.03 | Zone 4 |
| P-1032 | J-639 | J-642 | 697 | 10 | 140 | -62 | 0.25 | 0.02 | 0.03 | Zone 4 |
| P-1243 | J-1071 | J-768 | 77 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-89 | J-69 | J-68 | 692 | 8 | 140 | 39 | 0.25 | 0.03 | 0.04 | Zone 4 |
| P-96 | J-74 | J-69 | 414 | 8 | 140 | 39 | 0.25 | 0.02 | 0.04 | Zone 4 |
| P-1357 | J-806 | J-810 | 267 | 10 | 140 | 61 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1328 | J-799 | J-764 | 50 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-1327 | J-763 | J-799 | 187 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-347 | J-199 | J-200 | 241 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-1491 | J22-874 | J-23-1207 | 87 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 4 |
| P-759 | J-269 | J-323 | 489 | 6 | 140 | -22 | 0.25 | 0.03 | 0.05 | Zone 4 |
| P-320 | J-154 | J-36 | 265 | 8 | 140 | -39 | 0.25 | 0.01 | 0.04 | Zone 2 |
| P-462 | J-266 | J-265 | 208 | 8 | 140 | 38 | 0.25 | 0.01 | 0.04 | Zone 4 |
| P-803 | J-453 | J-466 | 510 | 6 | 140 | 22 | 0.24 | 0.03 | 0.05 | Zone 4 |
| P-1244 | J-762 | J-763 | 260 | 8 | 140 | 38 | 0.24 | 0.01 | 0.04 | Zone 2 |
| P-128 | J-93 | J-80 | 1094 | 10 | 140 | 60 | 0.24 | 0.03 | 0.03 | Zone 1 |
| P-468 | J-267 | J-268 | 229 | 10 | 140 | 59 | 0.24 | 0.01 | 0.03 | Zone 4 |
| P-538 | J-307 | J-308 | 435 | 6 | 140 | 21 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-1208 | J-480 | J-753 | 345 | 6 | 140 | 21 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-167 | J-111 | J-110 | 964 | 8 | 140 | 37 | 0.24 | 0.03 | 0.04 | Zone 2 |
| P-200 | J-134 | J-93 | 189 | 10 | 140 | -57 | 0.23 | 0 | 0.03 | Zone 4 |
| P-370 | J-146 | J-217 | 267 | 8 | 140 | -36 | 0.23 | 0.01 | 0.03 | Zone 1 |
| P-433 | J-137 | J-217 | 151 | 8 | 140 | 36 | 0.23 | 0.01 | 0.04 | Zone 1 |
| P-120 | J-39 | J-84 | 876 | 8 | 140 | 36 | 0.23 | 0.03 | 0.03 | Zone 4 |
| P-1168 | J-715 | J-728 | 93 | 6 | 140 | -20 | 0.23 | 0 | 0.05 | Zone 4 |
| P-119 | J-38 | J-86 | 270 | 10 | 140 | 56 | 0.23 | 0.01 | 0.03 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1238 | J22-1072 | J-767 | 90 | 8 | 140 | 36 | 0.23 | 0 | 0.03 | Zone 2 |
| P-255 | J-161 | J-162 | 474 | 8 | 140 | 36 | 0.23 | 0.02 | 0.03 | Zone 2 |
| P-833 | J-455 | J-484 | 516 | 6 | 140 | 20 | 0.23 | 0.02 | 0.05 | Zone 2 |
| P-568 | J-331 | J-330 | 516 | 8 | 140 | 36 | 0.23 | 0.02 | 0.03 | Zone 3 |
| P-79 | J-39 | J-62 | 344 | 10 | 140 | -55 | 0.23 | 0.01 | 0.02 | Zone 4 |
| 1492(1) | J-23-1207 | J-23-1228 | 300 | 8 | 140 | 35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-1104 | FH-930 | J-688 | 71 | 6 | 140 | -20 | 0.22 | 0 | 0.05 | Zone 1 |
| P-1087 | J-689 | J-690 | 227 | 6 | 140 | -20 | 0.22 | 0.01 | 0.05 | Zone 4 |
| P-1103 | J-690 | FH-930 | 133 | 6 | 140 | -20 | 0.22 | 0.01 | 0.04 | Zone 4 |
| P-1451 | J22-902 | J-421 | 48 | 10 | 140 | -54 | 0.22 | 0 | 0.02 | Zone 4 |
| P-495 | J-284 | J-283 | 282 | 8 | 140 | 34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-502 | J-288 | J-285 | 255 | 8 | 140 | -34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-107 | J-77 | J-78 | 354 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-202 | J-134 | J-133 | 716 | 6 | 140 | 18 | 0.21 | 0.03 | 0.04 | Zone 4 |
| P-185 | J-120 | J-124 | 232 | 10 | 140 | -51 | 0.21 | 0 | 0.02 | Zone 4 |
| P-186 | J-45 | J-124 | 396 | 10 | 140 | 51 | 0.21 | 0.01 | 0.02 | Zone 4 |
| P-362 | J-215 | J-214 | 237 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-813 | J-474 | J-452 | 196 | 6 | 140 | 18 | 0.21 | 0.01 | 0.04 | Zone 4 |
| 22-N-15 | J22-1083 | J22-1084 | 280 | 10 | 140 | -51 | 0.21 | 0.01 | 0.02 | Zone 2 |
| P-135 | J-95 | ESELEMSCH | 652 | 10 | 140 | -51 | 0.21 | 0.01 | 0.02 | Zone 4 |
| P-834 | J-454 | J-485 | 706 | 6 | 140 | 18 | 0.21 | 0.03 | 0.04 | Zone 4 |
| P-136 | J-96 | J-95 | 334 | 8 | 140 | -32 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-234 | J-154 | J-153 | 370 | 8 | 140 | 32 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-1259 | J-761 | J-775 | 165 | 8 | 140 | 32 | 0.2 | 0 | 0.03 | Zone 4 |
| P-155 | J-97 | J-103 | 513 | 8 | 140 | 31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-137 | J-45 | J-97 | 332 | 8 | 140 | 31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-129 | J-81 | J-93 | 767 | 10 | 140 | 49 | 0.2 | 0.02 | 0.02 | Zone 2 |
| P-126 | J-91 | J-90 | 757 | 8 | 140 | 31 | 0.2 | 0.02 | 0.03 | Zone 2 |
| P-156 | J-104 | J-103 | 364 | 8 | 140 | -31 | 0.2 | 0.01 | 0.03 | Zone 1 |
| P-1251 | J-769 | J-715 | 259 | 6 | 140 | -18 | 0.2 | 0.01 | 0.04 | Zone 4 |
| P-523 | J-298 | J-295 | 460 | 6 | 140 | 17 | 0.2 | 0.02 | 0.04 | Zone 4 |
| P-1054 | J-661 | J-659 | 233 | 6 | 140 | 17 | 0.19 | 0.01 | 0.04 | Zone 4 |
| P-503 | J-208 | J-288 | 206 | 8 | 140 | -30 | 0.19 | 0.01 | 0.03 | Zone 1 |
| P-389 | J-233 | J-223 | 407 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-753 | J-439 | J-288 | 68 | 8 | 140 | 30 | 0.19 | 0 | 0.02 | Zone 4 |
| P-798 | J-462 | J-420 | 244 | 10 | 140 | -47 | 0.19 | 0 | 0.02 | Zone 4 |
| P-721 | J-418 | J-419 | 381 | 6 | 140 | -17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-570 | J-332 | J-333 | 186 | 8 | 140 | 30 | 0.19 | 0 | 0.02 | Zone 1 |
| P-779 | J-423 | J-421 | 691 | 10 | 140 | 46 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-94 | J-72 | J-66 | 894 | 8 | 140 | 29 | 0.19 | 0.02 | 0.02 | Zone 4 |
| P-1242 | J-767 | J-1071 | 187 | 8 | 140 | 29 | 0.19 | 0 | 0.02 | Zone 4 |
| 22-N-15 | J22-1082 | J22-1083 | 196 | 10 | 140 | -46 | 0.19 | 0 | 0.02 | Zone 4 |
| 22-N-15 | J22-1090 | J22-1091 | 366 | 10 | 140 | -46 | 0.19 | 0.01 | 0.02 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| 2-N-15 | J22-1091 | J22-902 | 162 | 10 | 140 | -46 | 0.19 | 0 | 0.02 | Zone 4 |
| P-743 | J-233 | J-435 | 85 | 10 | 140 | 46 | 0.19 | 0 | 0.02 | Zone 4 |
| 1492(1) | J-23-1228 | J-23-1223 | 348 | 8 | 140 | 29 | 0.19 | 0.01 | 0.02 | Zone 4 |
| 1492(2) | J-23-1223 | J-23-1208 | 16 | 8 | 140 | 29 | 0.19 | 0 | 0.03 | Zone 4 |
| P-1364 | J-810 | J-815 | 257 | 10 | 140 | 45 | 0.18 | 0 | 0.02 | Zone 2 |
| P-1428- | J22-1069 | J-853 | 149 | 8 | 140 | -29 | 0.18 | 0 | 0.02 | Zone 2 |
| P-1429- | J-853 | J22-1070 | 86 | 8 | 140 | -29 | 0.18 | 0 | 0.02 | Zone 4 |
| P-459 | J-257 | J-263 | 149 | 6 | 140 | 16 | 0.18 | 0 | 0.03 | Zone 4 |
| P-697 | J-397 | J-398 | 372 | 8 | 140 | -28 | 0.18 | 0.01 | 0.02 | Zone 4 |
| P-393 | J-229 | J-227 | 238 | 8 | 140 | 28 | 0.18 | 0.01 | 0.02 | Zone 4 |
| P-217 | J-144 | J-137 | 669 | 10 | 140 | -44 | 0.18 | 0.01 | 0.02 | Zone 4 |
| P-791 | J-423 | J-460 | 169 | 10 | 140 | 44 | 0.18 | 0 | 0.02 | Zone 4 |
| P-1209 | J-481 | J-755 | 329 | 6 | 140 | -16 | 0.18 | 0.01 | 0.03 | Zone 4 |
| P-149 | J-101 | J-100 | 548 | 6 | 140 | 16 | 0.18 | 0.02 | 0.03 | Zone 4 |
| P-786 | J-455 | J-456 | 189 | 12 | 140 | -62 | 0.18 | 0 | 0.01 | Zone 4 |
| P-540 | J-300 | J-310 | 452 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 4 |
| P-1428- | J22-848 | J22-1069 | 191 | 8 | 140 | -28 | 0.18 | 0 | 0.02 | Zone 4 |
| P-235 | J-154 | J-155 | 404 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-814 | J-475 | J-474 | 214 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 2 |
| P-171 | J-114 | J-115 | 477 | 8 | 140 | 27 | 0.17 | 0.01 | 0.02 | Zone 2 |
| P-993 | J-456 | J-613 | 398 | 10 | 140 | -42 | 0.17 | 0.01 | 0.01 | Zone 2 |
| P-246 | J-68 | J-157 | 352 | 8 | 140 | 27 | 0.17 | 0.01 | 0.02 | Zone 3 |
| P-247 | J-157 | J-67 | 592 | 8 | 140 | 27 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P-547 | J-315 | J-314 | 480 | 6 | 140 | -15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-821 | J-460 | J-478 | 492 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-748 | J-283 | J-282 | 757 | 6 | 140 | 15 | 0.17 | 0.02 | 0.03 | Zone 4 |
| P-517 | J-296 | J-295 | 262 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-187 | J-125 | J-80 | 165 | 10 | 140 | -39 | 0.16 | 0 | 0.01 | Zone 1 |
| P-117 | J-85 | J-84 | 409 | 8 | 140 | -25 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-201 | J-92 | J-134 | 483 | 10 | 140 | -39 | 0.16 | 0.01 | 0.01 | Zone 2 |
| P-1362 | J-814 | J-769 | 371 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-573 | J-427 | J-327 | 350 | 8 | 140 | 24 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-258 | J-164 | J-154 | 602 | 8 | 140 | 24 | 0.16 | 0.01 | 0.02 | Zone 3 |
| P-348 | J-200 | J-201 | 237 | 8 | 140 | 24 | 0.16 | 0 | 0.02 | Zone 4 |
| P-1260 | J-775 | J-766 | 237 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 1 |
| P-1207 | J-753 | J-752 | 410 | 6 | 140 | 14 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-1494 | J-23-1209 | J-23-1210 | 48 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 2 |
| P-1497 | J-23-1210 | J-766 | 137 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 1 |
| P-1493 | J-23-1208 | J-23-1209 | 54 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 3 |
| P-485 | J-270 | J-278 | 481 | 6 | 140 | -14 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-81 | J-61 | J-62 | 433 | 8 | 140 | -24 | 0.15 | 0.01 | 0.02 | Zone 1 |
| P-1257 | J-774 | J-714 | 276 | 8 | 140 | -24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1256 | J-771 | J-774 | 109 | 8 | 140 | -24 | 0.15 | 0 | 0.01 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-261 | J-166 | J-160 | 304 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1429 | J22-1070 | J-768 | 190 | 8 | 140 | -24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-991 | J-485 | J-486 | 261 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-617 | J-346 | J-348 | 297 | 12 | 140 | -53 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1430 | J22-848 | J-854 | 52 | 8 | 140 | 23 | 0.15 | 0 | 0.02 | Zone 4 |
| P-479 | J-274 | J-275 | 854 | 8 | 140 | 23 | 0.15 | 0.01 | 0.01 | Zone 4 |
| P-195 | J-131 | J-130 | 527 | 8 | 140 | 23 | 0.15 | 0.01 | 0.01 | Zone 4 |
| P-817 | J-420 | J-477 | 430 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-1122 | J-681 | J-689 | 116 | 6 | 140 | -13 | 0.15 | 0 | 0.02 | Zone 4 |
| P-405 | J-214 | J-239 | 245 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 4 |
| P-216 | J-145 | J-144 | 352 | 10 | 140 | -35 | 0.14 | 0 | 0.01 | Zone 4 |
| P-184 | J-120 | J-123 | 940 | 10 | 140 | 35 | 0.14 | 0.01 | 0.01 | Zone 2 |
| P-125 | J-90 | J-89 | 406 | 8 | 140 | 23 | 0.14 | 0.01 | 0.01 | Zone 1 |
| P-124 | J-89 | J-88 | 309 | 8 | 140 | 23 | 0.14 | 0 | 0.01 | Zone 2 |
| P-484 | J-267 | J-278 | 397 | 8 | 140 | 22 | 0.14 | 0.01 | 0.01 | Zone 4 |
| P-515 | J-294 | J-266 | 275 | 6 | 140 | 12 | 0.14 | 0.01 | 0.02 | Zone 4 |
| P-706 | J-405 | J-406 | 300 | 6 | 140 | 12 | 0.14 | 0.01 | 0.02 | Zone 4 |
| P-189 | J-126 | J-125 | 506 | 8 | 140 | -22 | 0.14 | 0.01 | 0.01 | Zone 4 |
| P-543 | J-312 | J-298 | 499 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 2 |
| P-953 | J-288 | J-586 | 197 | 10 | 140 | 34 | 0.14 | 0 | 0.01 | Zone 4 |
| P-992 | J-484 | J-485 | 259 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 4 |
| P-487 | J-272 | J-279 | 343 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 4 |
| P-188 | J-65 | J-125 | 379 | 8 | 140 | -21 | 0.14 | 0 | 0.01 | Zone 4 |
| P-703 | J-403 | J-402 | 274 | 6 | 140 | -12 | 0.13 | 0 | 0.02 | Zone 4 |
| P-355 | J-198 | J-208 | 669 | 8 | 140 | 21 | 0.13 | 0.01 | 0.01 | Zone 4 |
| P-1361 | J-770 | J-814 | 134 | 6 | 140 | -12 | 0.13 | 0 | 0.01 | Zone 4 |
| P-782 | J-449 | J-452 | 389 | 12 | 140 | 46 | 0.13 | 0 | 0.01 | Zone 4 |
| P-1051 | J-656 | J-658 | 197 | 6 | 140 | -12 | 0.13 | 0 | 0.02 | Zone 2 |
| P-1178 | J-728 | J-733 | 220 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-1424 | J-847 | J-850 | 61 | 8 | 140 | 20 | 0.13 | 0 | 0.01 | Zone 4 |
| 22-145 | J22-1080 | J22-1082 | 221 | 10 | 140 | -32 | 0.13 | 0 | 0.01 | Zone 4 |
| P-730 | J-416 | J-425 | 242 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-144 | J-95 | J-99 | 722 | 6 | 140 | 11 | 0.13 | 0.01 | 0.02 | Zone 4 |
| P-1069 | J-660 | J-670 | 91 | 6 | 140 | -11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-694 | J-396 | J-397 | 281 | 8 | 140 | -20 | 0.13 | 0 | 0.01 | Zone 4 |
| P-815 | J-476 | J-475 | 219 | 6 | 140 | 11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-555 | J-269 | J-320 | 146 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 4 |
| P-1131 | J-704 | J-613 | 480 | 8 | 140 | -19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-143 | J-99 | J-92 | 148 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 2 |
| P-758 | J-269 | J-321 | 454 | 6 | 140 | 11 | 0.12 | 0.01 | 0.02 | Zone 4 |
| P-819 | J-461 | J-475 | 597 | 6 | 140 | 11 | 0.12 | 0.01 | 0.01 | Zone 2 |
| P-432 | J-249 | J-146 | 71 | 8 | 140 | -19 | 0.12 | 0 | 0.01 | Zone 2 |
| P-835 | J-466 | J-486 | 389 | 6 | 140 | 11 | 0.12 | 0.01 | 0.01 | Zone 2 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-569 | J-330 | J-332 | 245 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| 2-N-15 | J22-1089 | J22-1090 | 345 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-101 | J-75 | J-66 | 388 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1379 | J-815 | J-820 | 47 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1400 | J-819 | J-829 | 89 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1380 | J-820 | J-819 | 131 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-486 | J-268 | J-279 | 352 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-183 | J-123 | J-118 | 356 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-724 | J-420 | J-417 | 394 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 1 |
| P-717 | J-416 | J-417 | 277 | 6 | 140 | -10 | 0.12 | 0 | 0.01 | Zone 4 |
| P-480 | J-267 | J-276 | 476 | 8 | 140 | 18 | 0.12 | 0 | 0.01 | Zone 4 |
| P-401 | J-229 | J-238 | 407 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-1399 | J-255 | ALLEYCHU | 263 | 8 | 140 | 18 | 0.11 | 0 | 0.01 | Zone 4 |
| P-180 | J-120 | J-121 | 307 | 6 | 140 | 10 | 0.11 | 0 | 0.01 | Zone 2 |
| P-181 | J-121 | J-122 | 538 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-785 | J-454 | J-455 | 249 | 12 | 140 | -40 | 0.11 | 0 | 0.01 | Zone 4 |
| P-145 | J-45 | J-95 | 918 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| 2-N-15 | J22-1079 | J22-1080 | 381 | 10 | 140 | -27 | 0.11 | 0 | 0.01 | Zone 2 |
| P-219 | J-146 | J-138 | 387 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-431 | J-248 | J-138 | 76 | 8 | 140 | -17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-469 | J-268 | J-269 | 289 | 10 | 140 | 27 | 0.11 | 0 | 0.01 | Zone 2 |
| P-539 | J-309 | J-308 | 263 | 6 | 140 | -10 | 0.11 | 0 | 0.01 | Zone 2 |
| P-605(2) | J-1248 | J-108 | 272 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 1 |
| P-605(1) | J-119 | J-1248 | 175 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 1 |
| P-818 | J-462 | J-476 | 507 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-1431 | J-854 | J-855 | 293 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 2 |
| 22-N-6 | J22-1090 | J22-1092 | 32 | 8 | 140 | 17 | 0.11 | 0 | 0 | Zone 2 |
| P-324 | J-51 | J-194 | 661 | 6 | 140 | -9 | 0.11 | 0.01 | 0.01 | Zone 1 |
| 22-N-12 | J22-1085 | J22-1166 | 54 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| 22-N-12 | J22-1166 | J22-1168 | 125 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-394 | J-227 | J-225 | 240 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1358 | J-810 | J-811 | 82 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-535 | J-304 | J-305 | 590 | 6 | 140 | 9 | 0.1 | 0.01 | 0.01 | Zone 2 |
| P-1421 | J-765 | J-847 | 63 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 2 |
| P-1247 | J-764 | J-765 | 147 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1185 | J-736 | J-730 | 186 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-253 | J-162 | J-158 | 377 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 2 |
| P-820 | J-478 | J-474 | 222 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-213 | J-143 | J-144 | 693 | 6 | 140 | -9 | 0.1 | 0.01 | 0.01 | Zone 4 |
| P-1277 | J-768 | J-781 | 211 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-708 | J-406 | J-408 | 225 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-718 | J-417 | J-418 | 243 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-172 | J-115 | J-116 | 806 | 8 | 140 | 15 | 0.1 | 0.01 | 0.01 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1280 | J-764 | J-782 | 70 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-955 | J-425 | J-587 | 100 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-176 | J-110 | J-119 | 701 | 8 | 140 | 15 | 0.09 | 0 | 0.01 | Zone 2 |
| P-1425 | J-850 | J-851 | 253 | 8 | 140 | 15 | 0.09 | 0 | 0.01 | Zone 4 |
| P-231 | J-153 | J-150 | 377 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 2 |
| P-210 | J-140 | J-141 | 864 | 10 | 140 | -23 | 0.09 | 0 | 0.01 | Zone 2 |
| P-1401 | J-829 | J-830 | 287 | 10 | 140 | 22 | 0.09 | 0 | 0.01 | Zone 3 |
| P-787 | J-320 | J-456 | 682 | 10 | 140 | 22 | 0.09 | 0 | 0.01 | Zone 4 |
| P-481 | J-276 | J-271 | 438 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-103 | J-76 | J-75 | 329 | 10 | 140 | -22 | 0.09 | 0 | 0 | Zone 4 |
| P-793 | J-460 | J-459 | 516 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1483 | J-23-1197 | J-1198 | 113 | 8 | 140 | -14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-542 | J-311 | J-309 | 178 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-482 | J-268 | J-277 | 372 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1353 | J-806 | J-807 | 71 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| J2-N-12 | J22-1168 | J22-1169 | 299 | 8 | 140 | 13 | 0.09 | 0 | 0 | Zone 4 |
| P-799 | J-462 | J-426 | 629 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 2 |
| P-726 | J-421 | J-415 | 1019 | 8 | 140 | -13 | 0.08 | 0.01 | 0.01 | Zone 4 |
| P-1403 | J-770 | J-832 | 365 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-387 | J-229 | J-230 | 337 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-737 | J-430 | J-206 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1114 | J-654 | FH-914 | 64 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 4 |
| P-383 | J-225 | J-226 | 331 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-385 | J-227 | J-228 | 355 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 1 |
| P-1113 | FH-915 | J-662 | 254 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-733 | J-428 | J-204 | 208 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-390 | J-233 | J-231 | 335 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-735 | J-429 | J-205 | 208 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1118 | J-656 | FH-916 | 61 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1112 | J-661 | FH-915 | 52 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1119 | FH-916 | J-657 | 258 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1115 | FH-914 | J-655 | 253 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-816 | J-477 | J-476 | 215 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-232 | J-153 | J-152 | 566 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-796 | J-461 | J-458 | 570 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-215 | J-145 | J-142 | 518 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-403 | J-238 | J-221 | 231 | 8 | 140 | 13 | 0.08 | 0 | 0 | Zone 4 |
| P-214 | J-141 | J-145 | 339 | 10 | 140 | -20 | 0.08 | 0 | 0 | Zone 1 |
| P-811 | J-472 | J-272 | 97 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 1 |
| J22-145 | J22-898 | J22-1072 | 44 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 1 |
| J2-N-13 | J22-1172 | J22-898 | 290 | 8 | 140 | -12 | 0.08 | 0 | 0.01 | Zone 4 |
| P-775 | J-446 | J-448 | 544 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-87 | J-66 | J-67 | 461 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-115 | J-83 | J-82 | 298 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| P-114 | J-82 | J-64 | 366 | 8 | 140 | -12 | 0.08 | 0 | 0.01 | Zone 4 |
| P-179 | J-114 | J-120 | 335 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 2 |
| P-406 | J-239 | J-212 | 238 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-783 | J-452 | J-453 | 256 | 12 | 140 | 27 | 0.08 | 0 | 0 | Zone 4 |
| P-772 | J-327 | J-446 | 354 | 8 | 140 | 12 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1405 | J-833 | J-834 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-512 | J-280 | J-282 | 243 | 6 | 140 | -7 | 0.07 | 0 | 0.01 | Zone 1 |
| P-1482 | J-23-1196 | J-23-1197 | 116 | 8 | 140 | -12 | 0.07 | 0 | 0 | Zone 2 |
| P-165 | J-109 | J-104 | 278 | 8 | 140 | -12 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1487(1) | J22-1085 | J23-IRR | 39 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 2 |
| P-1487(2) | J23-IRR | J-23-1203 | 143 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 1 |
| P-1116 | J-663 | FH-913 | 59 | 6 | 140 | 7 | 0.07 | 0 | 0 | Zone 2 |
| P-1117 | FH-913 | J-664 | 190 | 6 | 140 | 7 | 0.07 | 0 | 0.01 | Zone 2 |
| P-193 | J-129 | J-65 | 229 | 8 | 140 | -12 | 0.07 | 0 | 0 | Zone 2 |
| P-192 | J-128 | J-129 | 503 | 8 | 140 | -12 | 0.07 | 0 | 0 | Zone 4 |
| P-2-N-15- | J-1179 | J22-1079 | 248 | 10 | 140 | -18 | 0.07 | 0 | 0 | Zone 1 |
| P-812 | J-321 | J-473 | 84 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-2-N-11 | J22-1084 | J22-1164 | 30 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |
| P-516 | J-295 | J-294 | 261 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-177 | J-118 | J-119 | 352 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-236 | J-155 | J-152 | 410 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1205 | J-752 | J-PH19IRR2 | 55 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-973 | J-597 | J-603 | 572 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 1 |
| P-1046 | J-647 | J-653 | 566 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-1045 | J-646 | J-652 | 569 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-520 | J-297 | J-296 | 403 | 6 | 140 | -6 | 0.07 | 0 | 0 | Zone 4 |
| P-1129 | LDG3-CCC | J-704 | 52 | 8 | 140 | -11 | 0.07 | 0 | 0.01 | Zone 4 |
| P-954 | J-586 | J-264 | 190 | 10 | 140 | 17 | 0.07 | 0 | 0 | Zone 1 |
| P-478 | J-275 | J-114 | 798 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-574 | J-427 | J-332 | 522 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-797 | J-461 | J-462 | 242 | 10 | 140 | -17 | 0.07 | 0 | 0 | Zone 4 |
| P-741 | J-195 | J-434 | 300 | 6 | 140 | 6 | 0.07 | 0 | 0 | Zone 4 |
| P-1422 | J-847 | J22-848 | 226 | 8 | 140 | -10 | 0.07 | 0 | 0 | Zone 4 |
| P-1432 | J-855 | J-856 | 242 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-349 | J-201 | J-202 | 225 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-935 | J-589 | J-590 | 507 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-585 | J-160 | J-343 | 544 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-931 | J-589 | J-588 | 540 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-123 | J-88 | J-87 | 424 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 2 |
| P-1253 | J-761 | J-773 | 65 | 8 | 140 | -10 | 0.06 | 0 | 0.01 | Zone 1 |
| P-1254 | J-773 | J-771 | 320 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-378 | J-221 | J-220 | 249 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1418 | J-845 | J-834 | 162 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-808 | J-470 | J-270 | 102 | 6 | 140 | -6 | 0.06 | 0 | 0 | Zone 4 |
| P-810 | J-471 | J-470 | 449 | 6 | 140 | -6 | 0.06 | 0 | 0 | Zone 4 |
| 22-145 | J22-896 | J-1071 | 55 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 1 |
| 22-N-12 | J22-1169 | J22-896 | 119 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1283 | J-782 | J-783 | 381 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-194 | J-130 | J-128 | 482 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 1 |
| P-154 | J-103 | J-96 | 412 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-414 | J-223 | J-238 | 233 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| 2-1458 | J22-901 | J-1184 | 44 | 10 | 140 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-1450 | J22-901 | J-830 | 160 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| -1458(2 | J-1184 | J-1199 | 21 | 10 | 140 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-133 | ESELEMSCH | J-81 | 154 | 10 | 140 | 15 | 0.06 | 0 | 0 | Zone 2 |
| P-541 | J-309 | J-310 | 372 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-1053 | J-659 | J-660 | 336 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-809 | J-453 | J-471 | 432 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| N-15-2 | J-1183 | J-1179 | 254 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| -15-2-1 | J-1200 | J-1183 | 139 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-745 | J-257 | J-436 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-1484 | J-23-1186 | J-1199 | 65 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 1 |
| P-1472 | J-23-1186 | J-23-1187 | 75 | 8 | 140 | 9 | 0.06 | 0 | 0.01 | Zone 1 |
| 22-N-11 | J22-1164 | J22-1165 | 138 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-773 | J-333 | J-446 | 387 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-1368 | J-818 | J-770 | 379 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-595 | J-350 | J-14 | 534 | 10 | 110 | -14 | 0.06 | 0 | 0 | Zone 4 |
| P-14 | J-13 | J-14 | 1017 | 10 | 110 | 14 | 0.06 | 0 | 0 | Zone 4 |
| P-1132 | J-350 | J-706 | 78 | 10 | 140 | 14 | 0.06 | 0 | 0 | Zone 4 |
| P-1263 | J-762 | J-776 | 164 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-712 | J-402 | J-412 | 288 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-711 | J-403 | J-411 | 277 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-710 | J-404 | J-410 | 271 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-483 | J-277 | J-273 | 342 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-713 | J-401 | J-413 | 304 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-66 | J-53 | J-52 | 328 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-565 | J-330 | J-329 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 1 |
| P-774 | J-333 | J-447 | 319 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-581 | J-341 | J-336 | 180 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-1481 | J-23-1195 | J-23-1196 | 110 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-254 | J-159 | J-162 | 576 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1426 | J-851 | J-852 | 214 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-384 | J-227 | J-221 | 420 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-994 | J-571 | MIDDLESCH | 221 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1278 | J-781 | J-763 | 187 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-548 | J-316 | J-315 | 479 | 6 | 140 | -5 | 0.05 | 0 | 0 | Zone 2 |
| P-140 | J-96 | J-98 | 707 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 2 |
| P-142 | J-98 | J-99 | 304 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 2 |
| P-1265 | J-762 | J-777 | 60 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1268 | J-777 | J-778 | 331 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-365 | J-199 | J-215 | 680 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-1473 | J-23-1187 | J-23-1188 | 47 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-157 | J-105 | J-104 | 617 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 4 |
| P-158 | J-106 | J-105 | 370 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 4 |
| P-986 | J-612 | J-611 | 561 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-794 | J-460 | J-461 | 258 | 10 | 140 | 12 | 0.05 | 0 | 0 | Zone 4 |
| P-228 | J-150 | J-151 | 709 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-78 | J-60 | J-61 | 1317 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 4 |
| P-709 | J-405 | J-409 | 256 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 1 |
| P-456 | J-256 | J-260 | 180 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-455 | J-246 | J-259 | 165 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-754 | J-438 | J-440 | 108 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-1365 | J-815 | J-816 | 84 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-190 | J-127 | J-126 | 887 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 2 |
| P-1414 | J-841 | J-842 | 266 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1413 | J-830 | J-841 | 54 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1271 | J-763 | J-779 | 61 | 8 | 140 | 7 | 0.05 | 0 | 0.01 | Zone 4 |
| P-1274 | J-779 | J-780 | 128 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-162 | J-108 | J-106 | 343 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-736 | J-201 | J-430 | 305 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-732 | J-199 | J-428 | 306 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-354 | J-202 | J-207 | 506 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-350 | J-203 | J-198 | 510 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 4 |
| P-734 | J-200 | J-429 | 299 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-306 | J-187 | J-139 | 355 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 3 |
| P-307 | J-140 | J-187 | 352 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 3 |
| P-429 | J-139 | J-248 | 390 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 4 |
| P-395 | J-225 | J-218 | 238 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1412 | J-840 | J-832 | 266 | 8 | 140 | -7 | 0.05 | 0 | 0 | Zone 4 |
| P-430 | J-141 | J-249 | 861 | 10 | 140 | -11 | 0.05 | 0 | 0 | Zone 4 |
| P-299 | J-185 | J-140 | 377 | 10 | 140 | -11 | 0.04 | 0 | 0 | Zone 4 |
| P-580 | J-166 | J-340 | 483 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1407 | J-829 | J-836 | 75 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1360 | J-812 | J-813 | 241 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1359 | J-811 | J-812 | 267 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 1 |
| P-1480 | J-23-1194 | J-23-1195 | 174 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 1 |
| P-77 | J-38 | J-60 | 354 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1485 | J-1200 | J-23-1201 | 115 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|------------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-707 | J-406 | J-407 | 195 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-532 | J-266 | J-303 | 100 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-738 | J-197 | J-431 | 104 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-457 | J-256 | J-261 | 111 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-11 | J22-1165 | J22-892 | 212 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1128 | J4-VILLAGE | FH-931 | 250 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1127 | FH-931 | J-705 | 187 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1130 | J-705 | BLDG3-CCC | 79 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-460 | J-264 | J-258 | 354 | 10 | 140 | 10 | 0.04 | 0 | 0 | Zone 4 |
| P-191 | J-128 | J-127 | 451 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-198 | J-132 | J-133 | 362 | 6 | 140 | 3 | 0.04 | 0 | 0 | Zone 4 |
| P-197 | J-131 | J-132 | 353 | 6 | 140 | 3 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-10 | J22-887 | J22-1160 | 157 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-10 | J22-1160 | J22-1082 | 39 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P22-145 | J22-848 | J22-887 | 205 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-404 | J-201 | J-239 | 683 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-359 | J-202 | J-212 | 668 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1406 | J-834 | J-835 | 166 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-1462 | J-835 | J-1179 | 105 | 6 | 150 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-13 | J22-1171 | J22-1172 | 312 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1434 | J-847 | J-857 | 66 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1435 | J-857 | J-858 | 130 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1474 | J-23-1188 | J-23-1189 | 489 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 1 |
| P-1354 | J-807 | J-808 | 247 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1355 | J-808 | J-809 | 272 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1039 | J-647 | J-648 | 339 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1404 | J-832 | J-833 | 308 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-784 | J-453 | J-454 | 253 | 12 | 140 | -12 | 0.03 | 0 | 0 | Zone 4 |
| P-443 | J-218 | J-254 | 307 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-N-15-1 | J-1198 | J22-1078 | 177 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 2 |
| P-15-2-1 | J22-1078 | J-1200 | 119 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| P-740 | J-195 | J-433 | 141 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-739 | J-196 | J-432 | 111 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 2 |
| P22-N-1 | J22-1088 | J22-1174 | 32 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-396 | J-185 | J-234 | 303 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 1 |
| P22-N-1 | J22-1174 | J22-880 | 16 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 2 |
| P22-145 | J22-892 | J22-1070 | 71 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-729 | J-421 | J-424 | 690 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-687 | J-393 | J-391 | 773 | 8 | 140 | -5 | 0.03 | 0 | 0 | Zone 3 |
| P-366 | J-200 | J-214 | 676 | 6 | 140 | -3 | 0.03 | 0 | 0 | Zone 4 |
| P-1284 | J-783 | J-770 | 271 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P22-N-2 | J22-1083 | J22-1161 | 29 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-377 | J-220 | J-219 | 290 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-182 | J-123 | J-122 | 586 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-5 | J22-1079 | J22-1158 | 35 | 8 | 140 | 4 | 0.03 | 0 | 0.01 | Zone 4 |
| 22-N-3 | J22-1080 | J22-1159 | 33 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 4 |
| P-1489 | J-23-1203 | J-23-1205 | 191 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 4 |
| P-229 | J-152 | J-151 | 477 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-212 | J-142 | J-143 | 380 | 6 | 140 | -2 | 0.03 | 0 | 0 | Zone 2 |
| P-832 | J-455 | J-473 | 475 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-199 | J-133 | J-125 | 382 | 8 | 140 | 4 | 0.03 | 0 | 0 | Zone 2 |
| P-398 | J-237 | J-185 | 279 | 10 | 140 | -6 | 0.02 | 0 | 0 | Zone 3 |
| P-544 | J-313 | J-312 | 499 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1433 | J-856 | J-833 | 214 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-251 | J-160 | J-159 | 376 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 1 |
| P-1419 | J-843 | J-846 | 53 | 8 | 150 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1486 | J-23-1201 | J-23-1202 | 148 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1488 | J-23-1203 | J-23-1204 | 288 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1420 | J-846 | J-844 | 143 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-N-15-1 | J22-899 | J-1198 | 100 | 10 | 140 | 6 | 0.02 | 0 | 0 | Zone 4 |
| P-1458(2) | J-1199 | J22-899 | 203 | 10 | 140 | 6 | 0.02 | 0 | 0 | Zone 4 |
| P-1475 | J-23-1189 | J-23-1190 | 5144 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-382 | J-220 | J-225 | 416 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-44 | J-38 | J-39 | 1015 | 10 | 140 | -5 | 0.02 | 0 | 0 | Zone 4 |
| P-1479 | J-23-1193 | J-23-1194 | 5137 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| 22-N-13 | J22-1170 | J22-1171 | 147 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1498 | J22-880 | J-23-1212 | 109 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1427 | J-852 | J-832 | 195 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-704 | J-404 | J-403 | 265 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1269 | J-778 | J-715 | 227 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-174 | J-117 | J-118 | 570 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 1 |
| P-173 | J-116 | J-117 | 528 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1417 | J-843 | J-845 | 411 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-164 | J-108 | J-109 | 885 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1161 | J22-1163 | 138 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1356 | J-809 | J-769 | 698 | 8 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-790 | J-459 | J-458 | 254 | 6 | 140 | 1 | 0.02 | 0 | 0 | Zone 4 |
| P-225 | 49RENOTR | J-54 | 375 | 12 | 110 | -5 | 0.01 | 0 | 0 | Zone 4 |
| P-1179 | J-733 | J-731 | 232 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1183 | J-735 | J-729 | 55 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1182 | J-734 | J-735 | 225 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1180 | J-731 | J-734 | 85 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1184 | J-729 | J-736 | 225 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| 1502(1) | J-23-1219 | J-23-1217 | 27 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 1502(2) | J-23-1217 | J-23-1216 | 14 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1490 | J-23-1205 | J-23-1206 | 56 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| 22-N-5 | J22-1158 | J22-884 | 106 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 22-N-3 | J22-1159 | J22-886 | 117 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-63 | J-52 | J-51 | 545 | 6 | 140 | -1 | 0.01 | 0 | 0 | Zone 1 |
| P-789 | J-458 | J-426 | 252 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1478 | J-23-1192 | J-23-1193 | 157 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1476 | J-23-1190 | J-23-1191 | 147 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1477 | J-23-1191 | J-23-1192 | 52 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1382 | J-813 | J-823 | 191 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-1383 | J-823 | J-814 | 280 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| 788(1)0 | J-456 | J-1278 | 195 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 788(1)0 | J-1278 | 4-VILLAGE | 78 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-376 | J-219 | J-218 | 339 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-831 | J-454 | J-472 | 691 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1262 | J-776 | J-767 | 240 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 2 |
| P-116 | J-84 | J-83 | 377 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 2 |
| P-747 | J-281 | J-280 | 562 | 6 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1275 | J-780 | J-769 | 294 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1366 | J-816 | J-817 | 278 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1367 | J-817 | J-818 | 216 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| 22-145 | J22-890 | J22-1069 | 66 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-731 | J-426 | J-416 | 255 | 6 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1415 | J-842 | J-843 | 118 | 8 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-716 | J-416 | J-415 | 202 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-332 | AXWINGRE | J-127 | 335 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| 22-N-2 | J22-1163 | J22-890 | 141 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-444 | J-254 | J-236 | 65 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-407 | J-212 | J-236 | 362 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1411 | J-839 | J-840 | 268 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1410 | J-836 | J-839 | 254 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1441-H | J-846 | H-65-PH19 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1440-H | J-842 | H-66-PH19 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1442-H | J-845 | H-64-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1443-H | J-857 | H-63-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1444-H | J-850 | H-62-PH19 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1445-H | J-854 | H-57-PH19 | 32 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1446-H | J-851 | H-61-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1447-H | J-852 | H-60-PH19 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1448-H | J-855 | H-58-PH19 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-822 | J-478 | J-479 | 81 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1377-H | J-818 | H-9-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1376-H | J-817 | H-8-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1375-H | J-816 | H-7-PH20 | 38 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1374-H | J-813 | H-6-PH20 | 33 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1373-H | J-812 | H-5-PH20 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1372-H | J-811 | H-4-PH20 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1371-H | J-809 | H-3-PH20 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1370-H | J-808 | H-2-PH20 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1369-H | J-807 | H-1-PH20 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1449-H | J-856 | H-59-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1467 | J22-887 | H-72-PH19 | 34 | 6 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1468 | PH22-FH2 | J-1183 | 30 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1469 | PH22-FH1 | J-1184 | 37 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1470 | PH22-FH19 | J22-902 | 46 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1508 | J-23-1189 | J-23-1225 | 50 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1511 | J-23-1225 | AV-1 | 35 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1351-H | H-21-PH19 | J-805 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1134 | J-706 | FH-801 | 68 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1512 | J-23-1217 | AV-2 | 26 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| 22-1-H | J22-1168 | PH22-FH11 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-10-H | J22-1169 | PH22-FH12 | 46 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-11-H | J22-1173 | PH22-FH20 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-12-H | J22-1171 | PH22-FH14 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-13-H | J22-1172 | PH22-FH15 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-14-H | J22-1174 | PH22-FH18 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1513 | J-23-1223 | AV-3 | 54 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1529 | J-1245 | SDRIVEBPS | 72 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1530 | SDRIVEBPS | J-344 | 68 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| -1175-H | J-732 | H-2-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1176-H | J-729 | H-3-PH18 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1177-H | J-731 | H-4-PH18 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1437-H | J-839 | H-69-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1544 | J-1245 | SDRIVEBPS | 110 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1285-H | H-20-PH17 | J-783 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1545 | SDRIVEBPS | J-344 | 112 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1282-H | H-19-PH17 | J-782 | 37 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-15-H | J22-1175 | PH22-FH16 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-20-H | J22-1161 | PH22-FH6 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-23-H | J22-1164 | PH22-FH8 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-6-H | J22-1158 | PH22-FH3 | 11 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-7-H | J22-1159 | PH22-FH4 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-8-H | J22-1163 | PH22-FH7 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-9-H | J22-1165 | PH22-FH9 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1553(H | J-325 | J-1275 | 193 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-771 | J-327 | J-445 | 252 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1043 | J-649 | J-650 | 163 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-769 | J-138 | J-444 | 98 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|------------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1279-H | H-16-PH17 | J-781 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1276-H | H-18-PH17 | J-780 | 19 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-326 | J-122 | WELL2 | 172 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-330 | RV-3CLOSE | J-42 | 277 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| -1273-H | H-17-PH17 | J-779 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1270-H | H-15-PH17 | J-778 | 28 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1436-H | J-836 | H-68-PH19 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-13 | J22-1147 | J22-1170 | 53 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-333 | J-136 | AXWINGRE | 306 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1044 | J-642 | J-651 | 144 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1267-H | H-14-PH17 | J-777 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-399 | J-237 | J-235 | 159 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1439-H | J-841 | H-67-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1264-H | H-13-PH17 | J-776 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-408 | J-236 | RV-5(PUFFI | 68 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1261-H | H-12-PH17 | J-775 | 22 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1258-H | H-11-PH17 | J-774 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1255-H | H-10-PH17 | J-773 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-411 | RV-5(PUFFI | J-240 | 64 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-746 | J-436 | J-262 | 256 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-412 | J-240 | J-131 | 563 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1227-H | H-9-PH19 | J-759 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1226-H | H-8-PH19 | J-749 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1225-H | H-7-PH19 | J-751 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1224-H | H-6-PH19 | J-753 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1223-H | H-5-PH19 | J-752 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1222-H | H-4-PH19 | J-755 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1221-H | H-3-PH19 | J-756 | 14 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1220-H | H-2-PH19 | J-758 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-16 | J22-1092 | 117CSELEM | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-421 | J-243 | J-237 | 1148 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| P-1543 | J-1234 | J-36 | 1537 | 6 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P-92 | J-71 | J-17 | 238 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-21 | J22-1166 | PH22-FH10 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-22 | J22-1170 | PH22-FH13 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-24 | J22-1160 | PH22-FH5 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-445 | J-240 | J-254 | 198 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-564 | J-329 | J-328 | 414 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-571 | J-329 | J-334 | 181 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-596 | J-350 | RV-3CLOSE | 195 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| -1219-H | H-1-PH19 | J-757 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| P-714 | J-400 | J-414 | 113 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1193-H | J-743 | H-5-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1438-H | J-840 | H-70-PH19 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.78 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.53 | Zone 3 |
| J-33 | 0 | 5,085 | 5,169 | 36.41 | Zone 2 |
| J-127 | 7.68 | 5,087 | 5,172 | 36.66 | Zone 2 |
| J-79 | 20.49 | 5,083 | 5,169 | 37.37 | Zone 2 |
| J-87 | 6.15 | 5,083 | 5,169 | 37.53 | Zone 2 |
| J-77 | 6.66 | 5,082 | 5,169 | 37.76 | Zone 2 |
| J-78 | 0 | 5,081 | 5,169 | 38.24 | Zone 2 |
| J-75 | 4.1 | 5,081 | 5,169 | 38.49 | Zone 2 |
| J-128 | 8.71 | 5,082 | 5,171 | 38.59 | Zone 2 |
| J-129 | 0 | 5,081 | 5,170 | 38.63 | Zone 2 |
| J-88 | 7.17 | 5,079 | 5,169 | 39.07 | Zone 2 |
| J-80 | 0 | 5,079 | 5,169 | 39.08 | Zone 2 |
| J-126 | 8.2 | 5,080 | 5,170 | 39.11 | Zone 2 |
| J-65 | 5.63 | 5,080 | 5,170 | 39.14 | Zone 2 |
| J-64 | 5.63 | 5,078 | 5,169 | 39.36 | Zone 2 |
| J-125 | 0.00 | 5,078 | 5,170 | 39.49 | Zone 2 |
| J-83 | 6.15 | 5,077 | 5,169 | 39.74 | Zone 2 |
| J-742 | 0 | 5,189 | 5,282 | 40.28 | Zone 4 |
| J-130 | 7.68 | 5,077 | 5,170 | 40.31 | Zone 2 |
| J-760 | 0 | 5,189 | 5,282 | 40.34 | Zone 4 |
| J-241 | 0 | 5,189 | 5,282 | 40.38 | Zone 4 |
| J-82 | 0 | 5,076 | 5,169 | 40.4 | Zone 2 |
| ESELEMSCH | 2,172.99 | 5,073 | 5,166 | 40.42 | Zone 2 |
| H-5-PH18 | 0 | 5,189 | 5,282 | 40.54 | Zone 4 |
| J-743 | 4.57 | 5,188 | 5,282 | 40.72 | Zone 4 |
| J-81 | 10.25 | 5,073 | 5,167 | 40.87 | Zone 2 |
| J-133 | 10.25 | 5,075 | 5,170 | 40.88 | Zone 2 |
| H-9-PH19 | 0 | 5,188 | 5,282 | 40.98 | Zone 4 |
| J-76 | 2.56 | 5,075 | 5,169 | 41.04 | Zone 2 |
| J-84 | 7.17 | 5,074 | 5,169 | 41.06 | Zone 2 |
| J-89 | 0 | 5,074 | 5,169 | 41.15 | Zone 2 |
| J-759 | 0 | 5,187 | 5,282 | 41.15 | Zone 4 |
| J-240 | 0 | 5,076 | 5,172 | 41.6 | Zone 2 |
| J-91 | 0 | 5,071 | 5,168 | 41.7 | Zone 2 |
| J-124 | 0 | 5,072 | 5,168 | 41.72 | Zone 2 |
| J-747 | 3.74 | 5,186 | 5,282 | 41.72 | Zone 4 |
| J-90 | 6.15 | 5,072 | 5,169 | 41.74 | Zone 2 |
| J-98 | 0 | 5,072 | 5,168 | 41.74 | Zone 2 |
| J-132 | 0 | 5,074 | 5,170 | 41.74 | Zone 2 |
| J-134 | 0 | 5,072 | 5,169 | 41.82 | Zone 2 |
| J-66 | 7.17 | 5,073 | 5,169 | 41.83 | Zone 2 |
| J-44 | 9.73 | 5,071 | 5,168 | 42.02 | Zone 2 |
| J-93 | 0 | 5,072 | 5,169 | 42.04 | Zone 2 |
| J-355 | 0 | 5,071 | 5,168 | 42.04 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,282 | 42.12 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-85 | 6.66 | 5,072 | 5,169 | 42.19 | Zone 2 |
| J-131 | 10.25 | 5,073 | 5,170 | 42.26 | Zone 2 |
| J-749 | 0 | 5,185 | 5,282 | 42.29 | Zone 4 |
| H-7-PH19 | 0 | 5,184 | 5,282 | 42.54 | Zone 4 |
| J-99 | 0 | 5,070 | 5,168 | 42.65 | Zone 2 |
| J-120 | 10.25 | 5,069 | 5,168 | 42.67 | Zone 2 |
| J-746 | 0 | 5,184 | 5,282 | 42.7 | Zone 4 |
| J-92 | 7.68 | 5,070 | 5,169 | 42.7 | Zone 2 |
| J-45 | 8.2 | 5,069 | 5,168 | 42.72 | Zone 2 |
| J-95 | 9.73 | 5,068 | 5,167 | 42.98 | Zone 2 |
| J-751 | 3.32 | 5,183 | 5,282 | 43.01 | Zone 4 |
| J-115 | 6.66 | 5,068 | 5,168 | 43.25 | Zone 2 |
| J-40 | 9.73 | 5,069 | 5,169 | 43.43 | Zone 2 |
| J-106 | 8.71 | 5,067 | 5,168 | 43.54 | Zone 2 |
| J-121 | 0 | 5,067 | 5,168 | 43.69 | Zone 2 |
| J-96 | 8.2 | 5,067 | 5,168 | 43.73 | Zone 2 |
| J-109 | 5.12 | 5,067 | 5,168 | 43.75 | Zone 2 |
| J-105 | 0 | 5,066 | 5,168 | 43.96 | Zone 2 |
| J-86 | 0 | 5,068 | 5,169 | 43.98 | Zone 2 |
| J-108 | 7.17 | 5,066 | 5,168 | 44.1 | Zone 2 |
| J-119 | 5.12 | 5,066 | 5,168 | 44.19 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,168 | 44.3 | Zone 2 |
| J-118 | 5.63 | 5,066 | 5,168 | 44.33 | Zone 2 |
| J-104 | 6.66 | 5,065 | 5,168 | 44.4 | Zone 2 |
| J-103 | 5.63 | 5,065 | 5,168 | 44.45 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,168 | 44.55 | Zone 2 |
| J-114 | 8.2 | 5,065 | 5,168 | 44.64 | Zone 2 |
| J-62 | 5.12 | 5,066 | 5,169 | 44.67 | Zone 2 |
| J-123 | 8.2 | 5,065 | 5,168 | 44.69 | Zone 2 |
| J-67 | 8.2 | 5,066 | 5,169 | 44.76 | Zone 2 |
| J-97 | 0 | 5,064 | 5,168 | 44.8 | Zone 2 |
| J-480 | 0 | 5,179 | 5,282 | 44.85 | Zone 4 |
| J-110 | 12.81 | 5,065 | 5,168 | 44.86 | Zone 2 |
| J-117 | 0 | 5,064 | 5,168 | 45.19 | Zone 2 |
| J-122 | 7.17 | 5,063 | 5,168 | 45.28 | Zone 2 |
| J-70 | 3.59 | 5,065 | 5,170 | 45.28 | Zone 2 |
| J-116 | 7.17 | 5,063 | 5,168 | 45.48 | Zone 2 |
| J-397 | 4.99 | 5,177 | 5,282 | 45.57 | Zone 4 |
| J-39 | 8.2 | 5,064 | 5,169 | 45.62 | Zone 2 |
| J-396 | 5.82 | 5,177 | 5,282 | 45.79 | Zone 4 |
| J-38 | 9.22 | 5,063 | 5,169 | 45.89 | Zone 2 |
| J-111 | 9.22 | 5,063 | 5,169 | 45.92 | Zone 2 |
| H-6-PH19 | 0 | 5,176 | 5,282 | 45.94 | Zone 4 |
| J-275 | 7.17 | 5,062 | 5,168 | 45.95 | Zone 2 |
| J-753 | 4.15 | 5,175 | 5,282 | 46.31 | Zone 4 |
| J-PH19IRR2 | 0 | 5,174 | 5,282 | 47.13 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-398 | 4.77 | 5,173 | 5,282 | 47.18 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,282 | 47.2 | Zone 4 |
| J-234 | 2.91 | 5,211 | 5,320 | 47.23 | Zone 3 |
| J-73 | 0 | 5,060 | 5,170 | 47.36 | Zone 2 |
| J-100 | 6.66 | 5,060 | 5,169 | 47.45 | Zone 2 |
| J-752 | 4.15 | 5,173 | 5,282 | 47.45 | Zone 4 |
| J-101 | 0 | 5,059 | 5,169 | 47.53 | Zone 2 |
| J-61 | 9.22 | 5,059 | 5,169 | 47.92 | Zone 2 |
| J-74 | 8.71 | 5,058 | 5,170 | 48.55 | Zone 2 |
| J-1 | 0 | 5,206 | 5,318 | 48.71 | Zone 1 |
| J-72 | 11.27 | 5,057 | 5,169 | 48.75 | Zone 2 |
| J-112 | 10.76 | 5,057 | 5,169 | 48.76 | Zone 2 |
| J-60 | 8.2 | 5,057 | 5,169 | 48.82 | Zone 2 |
| J-17 | 0 | 5,057 | 5,170 | 48.88 | Zone 2 |
| J-274 | 5.12 | 5,055 | 5,168 | 48.88 | Zone 2 |
| J-102 | 10.25 | 5,056 | 5,170 | 49.28 | Zone 2 |
| J-71 | 0 | 5,056 | 5,170 | 49.34 | Zone 2 |
| J-113 | 2.05 | 5,054 | 5,169 | 49.75 | Zone 2 |
| J-2 | 0 | 5,202 | 5,317 | 49.96 | Zone 1 |
| J-157 | 0 | 5,054 | 5,169 | 49.98 | Zone 2 |
| J-59 | 5.12 | 5,057 | 5,172 | 49.99 | Zone 2 |
| J-43 | 5.12 | 5,055 | 5,171 | 50.11 | Zone 2 |
| J-235 | 0 | 5,204 | 5,320 | 50.39 | Zone 3 |
| H-4-PH19 | 0 | 5,165 | 5,282 | 50.68 | Zone 4 |
| J-481 | 0 | 5,165 | 5,282 | 50.9 | Zone 4 |
| J-755 | 4.15 | 5,165 | 5,282 | 50.92 | Zone 4 |
| J-237 | 3.32 | 5,202 | 5,320 | 51.1 | Zone 3 |
| J-57 | 7.17 | 5,053 | 5,171 | 51.22 | Zone 2 |
| J-69 | 0 | 5,051 | 5,170 | 51.27 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,282 | 51.45 | Zone 4 |
| J-68 | 7.17 | 5,050 | 5,169 | 51.66 | Zone 2 |
| J-744 | 0 | 5,163 | 5,282 | 51.81 | Zone 4 |
| J-16 | 0 | 5,050 | 5,170 | 51.83 | Zone 2 |
| J-756 | 4.15 | 5,162 | 5,282 | 52.03 | Zone 4 |
| J-185 | 0 | 5,199 | 5,320 | 52.19 | Zone 3 |
| J-58 | 0 | 5,051 | 5,171 | 52.4 | Zone 2 |
| J-395 | 4.15 | 5,159 | 5,282 | 53.25 | Zone 4 |
| J-37 | 0 | 5,052 | 5,175 | 53.47 | Zone 2 |
| J-63 | 10.67 | 5,047 | 5,170 | 53.53 | Zone 2 |
| WELL7 | 0 | 5,200 | 5,324 | 53.54 | Zone 1 |
| J-392 | 5.82 | 5,158 | 5,282 | 53.97 | Zone 4 |
| J-394 | 5.82 | 5,158 | 5,282 | 53.97 | Zone 4 |
| J-55 | 6.15 | 5,047 | 5,173 | 54.34 | Zone 2 |
| J-50 | 6.15 | 5,046 | 5,172 | 54.53 | Zone 2 |
| J-53 | 9.22 | 5,049 | 5,176 | 54.81 | Zone 2 |
| J-192 | 2.98 | 5,189 | 5,316 | 54.98 | Zone 1 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-805 | 0 | 5,045 | 5,172 | 55 | Zone 4 |
| H-21-PH19 | 0 | 5,045 | 5,172 | 55.17 | Zone 4 |
| J-255 | 0 | 5,045 | 5,172 | 55.21 | Zone 2 |
| J-56 | 9.22 | 5,044 | 5,172 | 55.4 | Zone 2 |
| J-399 | 0 | 5,154 | 5,282 | 55.64 | Zone 4 |
| J-15 | 5.97 | 5,045 | 5,173 | 55.77 | Zone 2 |
| ALLEYCHUR | 10.24 | 5,043 | 5,172 | 55.96 | Zone 2 |
| J-42 | 2.98 | 5,043 | 5,173 | 56 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,282 | 56 | Zone 4 |
| J-1246 | 0 | 5,049 | 5,178 | 56.03 | Zone 2 |
| J-51 | 4.61 | 5,045 | 5,174 | 56.05 | Zone 2 |
| J-194 | 7.68 | 5,043 | 5,173 | 56.18 | Zone 2 |
| J-54 | 0 | 5,045 | 5,175 | 56.28 | Zone 2 |
| J-758 | 4.15 | 5,152 | 5,282 | 56.34 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,321 | 56.53 | Zone 1 |
| J-797 | 9.22 | 5,047 | 5,177 | 56.68 | Zone 2 |
| J-193 | 5.13 | 5,175 | 5,307 | 56.8 | Zone 1 |
| J-PH19IRR1 | 0 | 5,151 | 5,282 | 57.02 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,282 | 57.03 | Zone 4 |
| ANDYKEWE | 0 | 5,046 | 5,178 | 57.14 | Zone 2 |
| J-3 | 0 | 5,179 | 5,311 | 57.18 | Zone 1 |
| J-52 | 3.59 | 5,043 | 5,175 | 57.22 | Zone 2 |
| J-757 | 4.15 | 5,150 | 5,282 | 57.36 | Zone 4 |
| 49RENOTRU | 2.98 | 5,042 | 5,175 | 57.44 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 57.87 | Zone 2 |
| J-140 | 10.8 | 5,185 | 5,319 | 57.93 | Zone 3 |
| J-393 | 4.99 | 5,147 | 5,282 | 58.74 | Zone 4 |
| J-142 | 5.4 | 5,182 | 5,318 | 58.81 | Zone 3 |
| J-391 | 4.15 | 5,146 | 5,282 | 58.95 | Zone 4 |
| J-1262 | 2.98 | 5,172 | 5,310 | 59.98 | Zone 1 |
| FH-925 | 0 | 5,144 | 5,282 | 60.03 | Zone 4 |
| J-23-1188 | 1.25 | 5,143 | 5,282 | 60.34 | Zone 4 |
| J-652 | 6.42 | 5,148 | 5,287 | 60.47 | Zone 1 |
| J-482 | 0 | 5,142 | 5,282 | 60.63 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,282 | 60.65 | Zone 4 |
| J-23-1191 | 0 | 5,142 | 5,282 | 60.69 | Zone 4 |
| J-23-1193 | 2.91 | 5,142 | 5,282 | 60.74 | Zone 4 |
| J-23-1190 | 0.83 | 5,142 | 5,282 | 60.74 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,282 | 60.75 | Zone 4 |
| J-23-1189 | 1.25 | 5,142 | 5,282 | 60.75 | Zone 4 |
| J-23-1187 | 0.83 | 5,142 | 5,282 | 60.81 | Zone 4 |
| J-830 | 0 | 5,141 | 5,282 | 60.96 | Zone 4 |
| J-679 | 7.06 | 5,140 | 5,282 | 61.44 | Zone 4 |
| J-1184 | 0 | 5,140 | 5,282 | 61.58 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,282 | 61.63 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,282 | 61.68 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-685 | 0 | 5,139 | 5,282 | 61.86 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,282 | 61.91 | Zone 4 |
| J-390 | 0 | 5,139 | 5,282 | 61.95 | Zone 4 |
| J-836 | 3.74 | 5,139 | 5,282 | 61.96 | Zone 4 |
| J-819 | 0 | 5,139 | 5,282 | 62 | Zone 4 |
| J-829 | 0 | 5,139 | 5,282 | 62.16 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,282 | 62.19 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,282 | 62.3 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,282 | 62.35 | Zone 4 |
| J-841 | 0 | 5,138 | 5,282 | 62.44 | Zone 4 |
| J-820 | 0 | 5,137 | 5,282 | 63.05 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,282 | 63.1 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,282 | 63.12 | Zone 4 |
| J-187 | 0 | 5,173 | 5,319 | 63.23 | Zone 3 |
| J-4 | 8.12 | 5,163 | 5,309 | 63.31 | Zone 1 |
| J-815 | 4.77 | 5,136 | 5,282 | 63.37 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,282 | 63.43 | Zone 4 |
| J-678 | 0 | 5,135 | 5,282 | 63.79 | Zone 4 |
| J-145 | 4.99 | 5,170 | 5,318 | 64.01 | Zone 3 |
| J-352 | 5.4 | 5,134 | 5,282 | 64.07 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,282 | 64.43 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,282 | 64.61 | Zone 4 |
| J-448 | 7.06 | 5,134 | 5,284 | 64.71 | Zone 1 |
| J-141 | 4.57 | 5,169 | 5,318 | 64.73 | Zone 3 |
| H-4-PH20 | 0 | 5,133 | 5,282 | 64.74 | Zone 4 |
| J-810 | 0 | 5,133 | 5,282 | 64.85 | Zone 4 |
| J-816 | 4.99 | 5,132.14 | 5,282.17 | 65.01 | Zone 4 |
| J-730 | 0 | 5,131 | 5,282 | 65.38 | Zone 4 |
| J-806 | 0 | 5,131 | 5,282 | 65.45 | Zone 4 |
| J-732 | 0 | 5,131 | 5,282 | 65.52 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,282 | 65.52 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,282 | 65.62 | Zone 4 |
| J-677 | 8.31 | 5,130 | 5,282 | 65.8 | Zone 4 |
| J-688 | 4.77 | 5,130 | 5,282 | 65.96 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,282 | 65.98 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,282 | 66.01 | Zone 4 |
| J-23-1195 | 1.25 | 5,130 | 5,282 | 66.03 | Zone 4 |
| J-23-1196 | 1.66 | 5,130 | 5,282 | 66.03 | Zone 4 |
| J-811 | 5.4 | 5,130 | 5,282 | 66.04 | Zone 4 |
| J-23-1194 | 2.08 | 5,130 | 5,282 | 66.14 | Zone 4 |
| J-687 | 0 | 5,129 | 5,282 | 66.29 | Zone 4 |
| J-807 | 4.57 | 5,129 | 5,282 | 66.35 | Zone 4 |
| J-23-1197 | 1.25 | 5,129 | 5,282 | 66.47 | Zone 4 |
| J-675 | 0 | 5,129 | 5,282 | 66.51 | Zone 4 |
| J-839 | 0 | 5,128 | 5,282 | 66.92 | Zone 4 |
| J-483 | 0 | 5,128 | 5,282 | 66.95 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-69-PH19 | 0 | 5,127 | 5,282 | 67.08 | Zone 4 |
| J-676 | 0 | 5,127 | 5,282 | 67.09 | Zone 4 |
| FH-930 | 0 | 5,127 | 5,282 | 67.25 | Zone 4 |
| J-443 | 4.15 | 5,127 | 5,282 | 67.28 | Zone 4 |
| J-576 | 4.99 | 5,126 | 5,282 | 67.51 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,282 | 67.69 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,282 | 67.73 | Zone 4 |
| J-842 | 3.74 | 5,126 | 5,282 | 67.84 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,282 | 67.92 | Zone 4 |
| J-143 | 3.74 | 5,161 | 5,318 | 67.93 | Zone 3 |
| H-66-PH19 | 0 | 5,125 | 5,282 | 68.02 | Zone 4 |
| J-844 | 2.08 | 5,125 | 5,282 | 68.18 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,282 | 68.32 | Zone 4 |
| J-736 | 5.82 | 5,124 | 5,282 | 68.44 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,282 | 68.72 | Zone 4 |
| J-817 | 0 | 5,122 | 5,282 | 69.33 | Zone 4 |
| J-846 | 0 | 5,122 | 5,282 | 69.47 | Zone 4 |
| J-690 | 0 | 5,122 | 5,282 | 69.5 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,282 | 69.58 | Zone 4 |
| J-674 | 0 | 5,121 | 5,282 | 69.66 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,282 | 69.82 | Zone 4 |
| J-808 | 0 | 5,121 | 5,282 | 69.91 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,282 | 69.92 | Zone 4 |
| J-843 | 0 | 5,121 | 5,282 | 69.93 | Zone 4 |
| J-812 | 0 | 5,121 | 5,282 | 69.94 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,282 | 69.94 | Zone 4 |
| J-389 | 1.66 | 5,120 | 5,282 | 70.08 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,282 | 70.13 | Zone 4 |
| J-189 | 0 | 5,145 | 5,308 | 70.58 | Zone 1 |
| J-23-1201 | 1.66 | 5,119 | 5,282 | 70.61 | Zone 4 |
| J-348 | 4.15 | 5,119 | 5,282 | 70.65 | Zone 4 |
| J-23-1202 | 2.08 | 5,119 | 5,282 | 70.74 | Zone 4 |
| J-184 | 4.77 | 5,118 | 5,282 | 71.12 | Zone 4 |
| J-813 | 4.99 | 5,118 | 5,282 | 71.12 | Zone 4 |
| J-818 | 4.57 | 5,118 | 5,282 | 71.15 | Zone 4 |
| J-680 | 5.4 | 5,118 | 5,282 | 71.18 | Zone 4 |
| J-646 | 10.27 | 5,123 | 5,287 | 71.19 | Zone 1 |
| J-1200 | 0 | 5,118 | 5,282 | 71.34 | Zone 4 |
| J-190 | 0 | 5,143 | 5,307 | 71.34 | Zone 1 |
| H-3-PH20 | 0 | 5,117 | 5,282 | 71.37 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,282 | 71.41 | Zone 4 |
| J-823 | 0 | 5,117 | 5,282 | 71.42 | Zone 4 |
| J-809 | 4.57 | 5,117 | 5,282 | 71.43 | Zone 4 |
| J-729 | 0 | 5,116.93 | 5,282.18 | 71.6 | Zone 4 |
| ERTOWNCA | 2.98 | 5,124 | 5,290 | 71.64 | Zone 1 |
| J-139 | 0 | 5,153 | 5,318 | 71.67 | Zone 3 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-447 | 5.13 | 5,118 | 5,284 | 71.76 | Zone 1 |
| J-346 | 0 | 5,116 | 5,282 | 71.95 | Zone 4 |
| J-653 | 6.42 | 5,121 | 5,287 | 71.96 | Zone 1 |
| J-735 | 0 | 5,116.01 | 5,282.18 | 72 | Zone 4 |
| J-851 | 3.32 | 5,116 | 5,282 | 72.05 | Zone 4 |
| H-61-PH19 | 0 | 5,116 | 5,282 | 72.06 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,282 | 72.08 | Zone 4 |
| PH22-FH2 | 0 | 5,115.49 | 5,282.17 | 72.22 | Zone 4 |
| J-770 | 0 | 5,115 | 5,282 | 72.23 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,282 | 72.28 | Zone 4 |
| J-833 | 0 | 5,115 | 5,282 | 72.32 | Zone 4 |
| H-64-PH19 | 0 | 5,115.23 | 5,282.17 | 72.34 | Zone 4 |
| J-840 | 4.15 | 5,115 | 5,282 | 72.49 | Zone 4 |
| J-845 | 4.15 | 5,115 | 5,282 | 72.55 | Zone 4 |
| H-70-PH19 | 0 | 5,115 | 5,282 | 72.62 | Zone 4 |
| J-645 | 0 | 5,119 | 5,287 | 72.74 | Zone 1 |
| J22-886 | 1.25 | 5,114 | 5,282 | 72.8 | Zone 4 |
| J-814 | 0 | 5,114 | 5,282 | 72.8 | Zone 4 |
| H-58-PH19 | 0 | 5,114 | 5,282 | 72.88 | Zone 4 |
| J-855 | 3.74 | 5,114 | 5,282 | 72.92 | Zone 4 |
| J-442 | 4.57 | 5,114 | 5,282 | 72.93 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,282 | 72.97 | Zone 4 |
| J22-884 | 1.25 | 5,114 | 5,282 | 73.03 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,282 | 73.05 | Zone 4 |
| J-832 | 0 | 5,113 | 5,282 | 73.09 | Zone 4 |
| J-689 | 3.74 | 5,113 | 5,282 | 73.1 | Zone 4 |
| J22-1079 | 2.78 | 5,113 | 5,282 | 73.12 | Zone 4 |
| J22-1159 | 1.25 | 5,113 | 5,282 | 73.13 | Zone 4 |
| J-852 | 3.32 | 5,113 | 5,282 | 73.15 | Zone 4 |
| J22-1158 | 1.25 | 5,113 | 5,282 | 73.16 | Zone 4 |
| PH22-FH3 | 0 | 5,113.29 | 5,282.18 | 73.18 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,282 | 73.21 | Zone 4 |
| J-856 | 3.74 | 5,113 | 5,282 | 73.22 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,282 | 73.24 | Zone 4 |
| J-650 | 0 | 5,113 | 5,282 | 73.32 | Zone 4 |
| J-441 | 4.57 | 5,112 | 5,282 | 73.68 | Zone 4 |
| MIDDLESCH | 4.77 | 5,112 | 5,282 | 73.69 | Zone 4 |
| J-434 | 3.32 | 5,112 | 5,282 | 73.71 | Zone 4 |
| J-783 | 2.91 | 5,112 | 5,282 | 73.74 | Zone 4 |
| J-570 | 0 | 5,112 | 5,282 | 73.74 | Zone 4 |
| J-328 | 0 | 5,114 | 5,284 | 73.74 | Zone 1 |
| H-20-PH17 | 0 | 5,112 | 5,282 | 73.82 | Zone 4 |
| J-854 | 3.74 | 5,112 | 5,282 | 73.86 | Zone 4 |
| H-57-PH19 | 0 | 5,112 | 5,282 | 73.95 | Zone 4 |
| J-433 | 1.66 | 5,111 | 5,282 | 74.12 | Zone 4 |
| J-195 | 0 | 5,111 | 5,282 | 74.17 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-734 | 0 | 5,110.99 | 5,282.18 | 74.18 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,282 | 74.31 | Zone 4 |
| FH-919 | 4.99 | 5,111 | 5,282 | 74.34 | Zone 4 |
| J-681 | 0 | 5,110 | 5,282 | 74.44 | Zone 4 |
| H-72-PH19 | 0 | 5,110 | 5,282 | 74.55 | Zone 4 |
| J-644 | 10.91 | 5,115 | 5,287 | 74.63 | Zone 1 |
| J22-887 | 0 | 5,110 | 5,282 | 74.67 | Zone 4 |
| J-306 | 5.13 | 5,134 | 5,306 | 74.69 | Zone 1 |
| J-144 | 0 | 5,145 | 5,318 | 74.73 | Zone 3 |
| J22-1082 | 4.77 | 5,110 | 5,282 | 74.76 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,282 | 74.85 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,282 | 74.86 | Zone 4 |
| J-649 | 0 | 5,109.20 | 5,282.20 | 74.96 | Zone 4 |
| J-343 | 5.77 | 5,108.61 | 5,281.62 | 74.96 | Zone 1 |
| PH22-FH5 | 0 | 5,109 | 5,282 | 74.97 | Zone 4 |
| J-5 | 5.13 | 5,133 | 5,306 | 74.99 | Zone 1 |
| J-159 | 7.06 | 5,108 | 5,282 | 75.03 | Zone 1 |
| PH22-FH6 | 0 | 5,109 | 5,282 | 75.12 | Zone 4 |
| J22-1161 | 1.25 | 5,109 | 5,282 | 75.17 | Zone 4 |
| J-835 | 0 | 5,109 | 5,282 | 75.19 | Zone 4 |
| J-834 | 0 | 5,108.55 | 5,282.17 | 75.23 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,282 | 75.24 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,282 | 75.25 | Zone 4 |
| H-62-PH19 | 0 | 5,108 | 5,282 | 75.31 | Zone 4 |
| J-571 | 0 | 5,108 | 5,282 | 75.44 | Zone 4 |
| J22-1163 | 1.25 | 5,108.04 | 5,282.18 | 75.46 | Zone 4 |
| J-731 | 0 | 5,108 | 5,282 | 75.46 | Zone 4 |
| J-286 | 13.08 | 5,107.77 | 5,282.04 | 75.51 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,282 | 75.6 | Zone 4 |
| J-847 | 0 | 5,107 | 5,282 | 75.84 | Zone 4 |
| J-642 | 0 | 5,107 | 5,282 | 75.91 | Zone 4 |
| J22-890 | 0.83 | 5,107 | 5,282 | 75.99 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,282 | 76.08 | Zone 4 |
| J-284 | 6.65 | 5,106 | 5,282 | 76.13 | Zone 4 |
| J-667 | 0 | 5,106 | 5,282 | 76.35 | Zone 4 |
| J-850 | 3.32 | 5,106 | 5,282 | 76.5 | Zone 4 |
| J-765 | 0 | 5,106 | 5,282 | 76.52 | Zone 4 |
| H-63-PH19 | 0 | 5,105 | 5,282 | 76.57 | Zone 4 |
| J-857 | 0 | 5,105 | 5,282 | 76.65 | Zone 4 |
| J-858 | 3.32 | 5,105 | 5,282 | 76.97 | Zone 4 |
| J-334 | 0 | 5,106 | 5,284 | 77.02 | Zone 1 |
| FH-929 | 0 | 5,104 | 5,282 | 77.06 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,282 | 77.13 | Zone 4 |
| J-160 | 5.77 | 5,103 | 5,282 | 77.26 | Zone 1 |
| J-23-1206 | 1.25 | 5,104 | 5,282 | 77.32 | Zone 4 |
| J-769 | 0 | 5,104 | 5,282 | 77.36 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-203 | 4.15 | 5,103.04 | 5,281.66 | 77.39 | Zone 4 |
| J-853 | 0 | 5,103 | 5,282 | 77.5 | Zone 4 |
| H-19-PH17 | 0 | 5,103 | 5,282 | 77.54 | Zone 4 |
| J-764 | 4.77 | 5,103 | 5,282 | 77.55 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,282 | 77.59 | Zone 4 |
| J-23-1205 | 1.25 | 5,103 | 5,282 | 77.64 | Zone 4 |
| J-733 | 5.82 | 5,103 | 5,282 | 77.66 | Zone 4 |
| J-283 | 4.57 | 5,103 | 5,282 | 77.7 | Zone 4 |
| J-651 | 0 | 5,103 | 5,282 | 77.72 | Zone 4 |
| J-782 | 2.91 | 5,102.64 | 5,282.18 | 77.79 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,282 | 77.82 | Zone 4 |
| J-333 | 6.42 | 5,104 | 5,284 | 77.84 | Zone 1 |
| J22-1165 | 1.66 | 5,102 | 5,282 | 77.92 | Zone 4 |
| J-799 | 0 | 5,102 | 5,282 | 77.94 | Zone 4 |
| J22-1164 | 1.25 | 5,102 | 5,282 | 77.96 | Zone 4 |
| J22-1084 | 0 | 5,102 | 5,282 | 78.01 | Zone 4 |
| J-666 | 5.4 | 5,102 | 5,282 | 78.03 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,282 | 78.07 | Zone 4 |
| J-23-1203 | 2.08 | 5,102 | 5,282 | 78.15 | Zone 4 |
| J-329 | 5.13 | 5,103 | 5,284 | 78.21 | Zone 1 |
| J-387 | 0 | 5,125.58 | 5,306.10 | 78.22 | Zone 1 |
| J22-892 | 0.83 | 5,102 | 5,282 | 78.22 | Zone 4 |
| J-1071 | 0 | 5,101 | 5,282 | 78.3 | Zone 4 |
| J-768 | 0 | 5,101.09 | 5,282.18 | 78.47 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,282 | 78.49 | Zone 4 |
| J-432 | 1.66 | 5,101 | 5,282 | 78.53 | Zone 4 |
| J-683 | 5.4 | 5,101 | 5,282 | 78.63 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,282 | 78.66 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,318.18 | 78.69 | Zone 3 |
| J-204 | 4.15 | 5,100 | 5,282 | 78.75 | Zone 4 |
| J22-1166 | 0 | 5,100 | 5,282 | 78.76 | Zone 4 |
| PH22-FH10 | 0 | 5,100 | 5,282 | 78.8 | Zone 4 |
| H-18-PH17 | 0 | 5,100 | 5,282 | 78.87 | Zone 4 |
| J-196 | 0 | 5,099 | 5,282 | 79.07 | Zone 4 |
| H-16-PH17 | 0 | 5,100 | 5,282 | 79.07 | Zone 4 |
| J-780 | 4.99 | 5,099 | 5,282 | 79.16 | Zone 4 |
| J-763 | 0 | 5,099 | 5,282 | 79.17 | Zone 4 |
| J22-1168 | 1.66 | 5,099 | 5,282 | 79.25 | Zone 4 |
| H-17-PH17 | 0 | 5,099 | 5,282 | 79.26 | Zone 4 |
| PH22-FH11 | 0 | 5,099 | 5,282 | 79.3 | Zone 4 |
| J-248 | 5.82 | 5,135.17 | 5,318.22 | 79.32 | Zone 3 |
| PH22-FH13 | 0 | 5,099 | 5,282 | 79.43 | Zone 4 |
| J22-1170 | 1.66 | 5,099 | 5,282 | 79.43 | Zone 4 |
| J-781 | 4.15 | 5,099 | 5,282 | 79.46 | Zone 4 |
| J-648 | 3.21 | 5,104 | 5,287 | 79.47 | Zone 1 |
| J-281 | 3.32 | 5,099 | 5,282 | 79.48 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-23-1204 | 2.08 | 5,099 | 5,282 | 79.48 | Zone 4 |
| BLDG3-CCC0 | 2.78 | 5,099 | 5,282 | 79.5 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,282.19 | 79.53 | Zone 4 |
| J-138 | 0 | 5,135 | 5,318 | 79.55 | Zone 3 |
| J22-1086 | 0 | 5,099 | 5,282 | 79.57 | Zone 4 |
| J22-1171 | 1.66 | 5,099 | 5,282 | 79.58 | Zone 4 |
| J-715 | 0 | 5,099 | 5,282 | 79.59 | Zone 4 |
| J-596 | 0 | 5,105 | 5,288 | 79.63 | Zone 1 |
| J-728 | 0 | 5,098 | 5,282 | 79.64 | Zone 4 |
| J-779 | 0 | 5,098 | 5,282 | 79.66 | Zone 4 |
| PH22-FH14 | 0 | 5,098 | 5,282 | 79.68 | Zone 4 |
| J-27 | 0 | 5,102 | 5,286 | 79.76 | Zone 1 |
| J-704 | 4.77 | 5,098.03 | 5,282.20 | 79.8 | Zone 4 |
| J-25 | 0 | 5,104 | 5,289 | 79.83 | Zone 1 |
| J22-896 | 0 | 5,098 | 5,282 | 79.84 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,282.20 | 79.87 | Zone 4 |
| J-603 | 6.42 | 5,103 | 5,287 | 79.88 | Zone 1 |
| J-446 | 5.13 | 5,099 | 5,284 | 79.96 | Zone 1 |
| J22-1169 | 2.08 | 5,097 | 5,282 | 80.06 | Zone 4 |
| H-15-PH17 | 0 | 5,097 | 5,282 | 80.08 | Zone 4 |
| PH22-FH12 | 0 | 5,097 | 5,282 | 80.11 | Zone 4 |
| J-340 | 3.85 | 5,097 | 5,282 | 80.12 | Zone 1 |
| J-639 | 0 | 5,097 | 5,282 | 80.14 | Zone 4 |
| PH22-FH15 | 0 | 5,097.23 | 5,282.19 | 80.14 | Zone 4 |
| J22-1172 | 3.74 | 5,097 | 5,282 | 80.15 | Zone 4 |
| J-484 | 4.57 | 5,097.17 | 5,282.20 | 80.17 | Zone 4 |
| J-705 | 0 | 5,097 | 5,282 | 80.2 | Zone 4 |
| J-767 | 4.77 | 5,097.07 | 5,282.18 | 80.21 | Zone 4 |
| J-191 | 8.12 | 5,122 | 5,307 | 80.22 | Zone 1 |
| J-205 | 4.15 | 5,096 | 5,281 | 80.25 | Zone 4 |
| J-778 | 6.23 | 5,096.86 | 5,282.18 | 80.3 | Zone 4 |
| J-671 | 4.77 | 5,097 | 5,282 | 80.38 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,282.20 | 80.39 | Zone 4 |
| J-290 | 0 | 5,120 | 5,306 | 80.41 | Zone 1 |
| J22-898 | 0 | 5,097 | 5,282 | 80.46 | Zone 4 |
| J-714 | 0 | 5,096.31 | 5,282.19 | 80.54 | Zone 4 |
| J-332 | 0 | 5,098 | 5,284 | 80.57 | Zone 1 |
| H-13-PH17 | 0 | 5,096.07 | 5,282.18 | 80.64 | Zone 4 |
| J-647 | 6.42 | 5,101 | 5,287 | 80.68 | Zone 1 |
| J-485 | 9.75 | 5,096 | 5,282 | 80.69 | Zone 4 |
| J-23-1207 | 2.08 | 5,096 | 5,282 | 80.72 | Zone 4 |
| J-325 | 7.26 | 5,096 | 5,282 | 80.73 | Zone 4 |
| H-11-PH17 | 0 | 5,096 | 5,282 | 80.78 | Zone 4 |
| J-762 | 0 | 5,096 | 5,282 | 80.79 | Zone 4 |
| J22-1072 | 0 | 5,096 | 5,282 | 80.79 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,282.20 | 80.87 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-1275 | 0 | 5,095 | 5,282 | 80.89 | Zone 4 |
| J-776 | 4.15 | 5,095 | 5,282 | 80.93 | Zone 4 |
| J-206 | 4.15 | 5,095 | 5,281 | 80.94 | Zone 4 |
| H-14-PH17 | 0 | 5,095 | 5,282 | 80.95 | Zone 4 |
| J22-874 | 0.83 | 5,095 | 5,282 | 80.96 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,282.20 | 81 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,282.20 | 81.01 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.22 | 81.01 | Zone 4 |
| J-431 | 2.08 | 5,094.71 | 5,281.75 | 81.04 | Zone 4 |
| PH22-FH20 | 0 | 5,095.18 | 5,282.22 | 81.04 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,281.56 | 81.08 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.19 | 81.11 | Zone 4 |
| J22-1087 | 7.55 | 5,094.99 | 5,282.22 | 81.13 | Zone 4 |
| J-330 | 4.49 | 5,096.35 | 5,283.80 | 81.22 | Zone 1 |
| J-766 | 0 | 5,094.73 | 5,282.19 | 81.23 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,281.75 | 81.3 | Zone 4 |
| J-771 | 7.89 | 5,094.49 | 5,282.19 | 81.33 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.18 | 81.35 | Zone 4 |
| J-23-1228 | 3.32 | 5,094.40 | 5,282.21 | 81.38 | Zone 4 |
| J-660 | 3.32 | 5,094.39 | 5,282.20 | 81.38 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.20 | 81.41 | Zone 4 |
| H-12-PH17 | 0 | 5,094.20 | 5,282.19 | 81.45 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,282.20 | 81.58 | Zone 4 |
| J-166 | 5.13 | 5,093.26 | 5,281.66 | 81.63 | Zone 1 |
| J-761 | 0 | 5,093.67 | 5,282.19 | 81.69 | Zone 4 |
| H-10-PH17 | 0 | 5,093.60 | 5,282.19 | 81.72 | Zone 4 |
| J-445 | 0 | 5,095.13 | 5,283.79 | 81.75 | Zone 1 |
| J-657 | 4.15 | 5,093.38 | 5,282.20 | 81.82 | Zone 4 |
| J-775 | 4.15 | 5,093.32 | 5,282.19 | 81.84 | Zone 4 |
| J-207 | 4.15 | 5,092.46 | 5,281.39 | 81.86 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,282.20 | 81.86 | Zone 4 |
| J-23-1212 | 1.66 | 5,093.24 | 5,282.26 | 81.9 | Zone 4 |
| J-595 | 2.57 | 5,099.13 | 5,288.21 | 81.93 | Zone 1 |
| J-662 | 4.15 | 5,092.99 | 5,282.21 | 81.99 | Zone 4 |
| J22-1088 | 2.78 | 5,092.98 | 5,282.26 | 82.02 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.26 | 82.06 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,282.19 | 82.06 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,281.48 | 82.07 | Zone 4 |
| J22-880 | 1.25 | 5,092.85 | 5,282.26 | 82.07 | Zone 4 |
| PH22-FH18 | 0 | 5,092.73 | 5,282.26 | 82.12 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.19 | 82.17 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,281.42 | 82.18 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.20 | 82.21 | Zone 4 |
| 22-IRR-117 | 0 | 5,092.39 | 5,282.26 | 82.27 | Zone 4 |
| J-658 | 6.23 | 5,092.30 | 5,282.20 | 82.28 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.20 | 82.38 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| 4-VILLAGEO | 4.77 | 5,092.08 | 5,282.20 | 82.38 | Zone 4 |
| J-23-1208 | 2.91 | 5,092.02 | 5,282.20 | 82.4 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,305.78 | 82.41 | Zone 1 |
| J-23-1209 | 0 | 5,091.90 | 5,282.19 | 82.46 | Zone 4 |
| J-198 | 5.4 | 5,091.35 | 5,281.66 | 82.46 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,282.20 | 82.47 | Zone 4 |
| J-655 | 4.15 | 5,091.87 | 5,282.22 | 82.48 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,282.61 | 82.48 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,282.20 | 82.54 | Zone 4 |
| J-466 | 6.23 | 5,091.59 | 5,282.20 | 82.59 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,282.20 | 82.64 | Zone 4 |
| J-23-1216 | 1.25 | 5,091.71 | 5,282.46 | 82.65 | Zone 4 |
| J-454 | 4.99 | 5,091.37 | 5,282.21 | 82.69 | Zone 4 |
| J-664 | 3.74 | 5,091.23 | 5,282.22 | 82.75 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,282.20 | 82.77 | Zone 4 |
| J-606 | 8.98 | 5,096.31 | 5,287.35 | 82.78 | Zone 1 |
| J-23-1217 | 0 | 5,091.41 | 5,282.46 | 82.78 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,282.20 | 82.81 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,282.46 | 82.84 | Zone 4 |
| J-23-1215 | 0.83 | 5,091.25 | 5,282.43 | 82.84 | Zone 4 |
| J-23-1219 | 0.83 | 5,091.11 | 5,282.46 | 82.91 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,282.20 | 82.93 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,282.56 | 83.03 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.21 | 83.07 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,282.49 | 83.08 | Zone 4 |
| J-336 | 5.13 | 5,090.75 | 5,282.50 | 83.09 | Zone 1 |
| J-23-1221 | 0 | 5,090.70 | 5,282.53 | 83.12 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.31 | 83.14 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.30 | 83.2 | Zone 4 |
| J-592 | 8.34 | 5,095.57 | 5,287.64 | 83.22 | Zone 1 |
| J-453 | 7.06 | 5,090.15 | 5,282.22 | 83.22 | Zone 4 |
| J-23-1213 | 2.49 | 5,090.32 | 5,282.40 | 83.23 | Zone 4 |
| J-23-1214 | 0.42 | 5,090.30 | 5,282.42 | 83.25 | Zone 4 |
| J22-882 | 1.66 | 5,090.19 | 5,282.31 | 83.25 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.22 | 83.27 | Zone 4 |
| PH22-FH16 | 0 | 5,090.10 | 5,282.31 | 83.28 | Zone 4 |
| J-199 | 5.82 | 5,089.28 | 5,281.56 | 83.31 | Zone 4 |
| J-661 | 3.74 | 5,089.72 | 5,282.21 | 83.4 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.22 | 83.6 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.22 | 83.72 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,282.23 | 83.8 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,282.22 | 83.84 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.23 | 83.86 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.28 | 84.08 | Zone 4 |
| J-200 | 5.82 | 5,087.30 | 5,281.48 | 84.14 | Zone 4 |
| J-324 | 2.08 | 5,087.57 | 5,282.09 | 84.29 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-327 | 7.06 | 5,089.27 | 5,283.79 | 84.29 | Zone 1 |
| J-449 | 0 | 5,087.47 | 5,282.25 | 84.4 | Zone 4 |
| ELEMSCHO | 9.54 | 5,087.43 | 5,282.30 | 84.44 | Zone 4 |
| J-440 | 2.49 | 5,086.88 | 5,281.80 | 84.46 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,282.50 | 84.48 | Zone 1 |
| J22-1090 | 0 | 5,087.33 | 5,282.30 | 84.48 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,282.30 | 84.5 | Zone 4 |
| H17CSELEM | 0 | 5,087.23 | 5,282.30 | 84.52 | Zone 4 |
| J-438 | 5.4 | 5,086.25 | 5,281.80 | 84.73 | Zone 4 |
| J-478 | 3.32 | 5,086.54 | 5,282.28 | 84.81 | Zone 4 |
| J-201 | 5.82 | 5,085.59 | 5,281.42 | 84.86 | Zone 4 |
| J-474 | 3.32 | 5,086.26 | 5,282.27 | 84.93 | Zone 4 |
| J-460 | 5.4 | 5,086.01 | 5,282.30 | 85.05 | Zone 4 |
| J-339 | 4.49 | 5,085.67 | 5,282.09 | 85.11 | Zone 1 |
| J-407 | 2.08 | 5,085.64 | 5,282.30 | 85.21 | Zone 4 |
| J-202 | 4.99 | 5,084.62 | 5,281.39 | 85.26 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.30 | 85.3 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,281.76 | 85.31 | Zone 4 |
| J-249 | 4.57 | 5,120.99 | 5,317.95 | 85.34 | Zone 3 |
| J-423 | 0 | 5,085.17 | 5,282.30 | 85.41 | Zone 4 |
| J22-902 | 4.77 | 5,085.12 | 5,282.30 | 85.44 | Zone 4 |
| J-475 | 3.74 | 5,084.82 | 5,282.29 | 85.56 | Zone 4 |
| J-408 | 4.99 | 5,084.71 | 5,282.30 | 85.61 | Zone 4 |
| J-280 | 3.32 | 5,084.28 | 5,282.05 | 85.7 | Zone 4 |
| J-285 | 4.99 | 5,083.77 | 5,281.76 | 85.79 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,282.30 | 85.82 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,317.93 | 85.86 | Zone 3 |
| PH22-FH19 | 0 | 5,084.13 | 5,282.30 | 85.87 | Zone 4 |
| J-476 | 3.32 | 5,083.43 | 5,282.29 | 86.17 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.30 | 86.17 | Zone 4 |
| J-323 | 7.68 | 5,083.06 | 5,282.11 | 86.25 | Zone 4 |
| J-409 | 2.49 | 5,083.24 | 5,282.30 | 86.25 | Zone 4 |
| J-282 | 4.57 | 5,082.97 | 5,282.05 | 86.26 | Zone 4 |
| J-208 | 4.15 | 5,082.50 | 5,281.66 | 86.29 | Zone 4 |
| J-590 | 5.77 | 5,088.31 | 5,287.49 | 86.31 | Zone 1 |
| J-288 | 0 | 5,082.55 | 5,281.74 | 86.31 | Zone 4 |
| J-161 | 5.77 | 5,082.45 | 5,281.71 | 86.34 | Zone 1 |
| J-471 | 6.23 | 5,082.54 | 5,282.20 | 86.51 | Zone 4 |
| J-273 | 2.91 | 5,082.46 | 5,282.18 | 86.54 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,281.74 | 86.55 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,282.28 | 86.58 | Zone 1 |
| J-461 | 6.23 | 5,082.44 | 5,282.30 | 86.6 | Zone 4 |
| J-473 | 4.99 | 5,082.14 | 5,282.19 | 86.68 | Zone 4 |
| J-477 | 3.32 | 5,082.15 | 5,282.30 | 86.72 | Zone 4 |
| J-215 | 8.92 | 5,081.17 | 5,281.56 | 86.83 | Zone 4 |
| J-459 | 3.74 | 5,081.68 | 5,282.30 | 86.93 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-604 | 3.85 | 5,086.47 | 5,287.17 | 86.96 | Zone 1 |
| J-410 | 2.91 | 5,081.37 | 5,282.31 | 87.07 | Zone 4 |
| J-586 | 9.54 | 5,080.67 | 5,281.74 | 87.12 | Zone 4 |
| J-597 | 7.7 | 5,085.96 | 5,287.05 | 87.13 | Zone 1 |
| J-424 | 2.78 | 5,081.15 | 5,282.30 | 87.16 | Zone 4 |
| J-271 | 4.57 | 5,080.96 | 5,282.18 | 87.19 | Zone 4 |
| J-405 | 3.32 | 5,081.06 | 5,282.30 | 87.2 | Zone 4 |
| J-214 | 4.15 | 5,080.16 | 5,281.48 | 87.23 | Zone 4 |
| J-427 | 6.42 | 5,082.41 | 5,283.80 | 87.26 | Zone 1 |
| J-320 | 4.77 | 5,080.78 | 5,282.19 | 87.27 | Zone 4 |
| J-23 | 3.85 | 5,102.29 | 5,303.80 | 87.31 | Zone 1 |
| J-462 | 7.48 | 5,080.60 | 5,282.30 | 87.4 | Zone 4 |
| J-272 | 2.91 | 5,080.44 | 5,282.19 | 87.42 | Zone 4 |
| J-417 | 4.99 | 5,080.47 | 5,282.31 | 87.45 | Zone 4 |
| J-321 | 2.49 | 5,080.22 | 5,282.19 | 87.51 | Zone 4 |
| J-270 | 4.57 | 5,080.13 | 5,282.19 | 87.55 | Zone 4 |
| J-472 | 4.57 | 5,079.93 | 5,282.19 | 87.64 | Zone 4 |
| J-411 | 2.91 | 5,079.96 | 5,282.31 | 87.68 | Zone 4 |
| J-239 | 4.15 | 5,078.79 | 5,281.40 | 87.79 | Zone 4 |
| J-404 | 3.32 | 5,079.68 | 5,282.31 | 87.8 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,282.31 | 87.88 | Zone 4 |
| J-458 | 4.15 | 5,079.24 | 5,282.30 | 87.99 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,281.85 | 88.06 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,282.19 | 88.07 | Zone 4 |
| J-277 | 4.99 | 5,078.88 | 5,282.18 | 88.09 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.31 | 88.12 | Zone 4 |
| J-418 | 4.57 | 5,078.88 | 5,282.31 | 88.15 | Zone 4 |
| J-412 | 2.91 | 5,078.68 | 5,282.31 | 88.23 | Zone 4 |
| J-403 | 2.91 | 5,078.53 | 5,282.31 | 88.3 | Zone 4 |
| J-212 | 3.74 | 5,077.48 | 5,281.31 | 88.32 | Zone 4 |
| J-279 | 3.74 | 5,078.05 | 5,282.19 | 88.45 | Zone 4 |
| J-587 | 4.77 | 5,078.13 | 5,282.30 | 88.47 | Zone 4 |
| J-264 | 4.15 | 5,077.35 | 5,281.74 | 88.56 | Zone 4 |
| J-269 | 4.15 | 5,077.78 | 5,282.19 | 88.57 | Zone 4 |
| J-426 | 4.57 | 5,077.65 | 5,282.30 | 88.68 | Zone 4 |
| J-331 | 5.77 | 5,079.08 | 5,283.80 | 88.7 | Zone 1 |
| J-413 | 2.91 | 5,077.49 | 5,282.33 | 88.76 | Zone 4 |
| J-425 | 1.66 | 5,077.39 | 5,282.30 | 88.79 | Zone 4 |
| J-231 | 4.15 | 5,076.71 | 5,281.65 | 88.8 | Zone 4 |
| J-337 | 9.62 | 5,077.64 | 5,282.80 | 88.9 | Zone 1 |
| J-402 | 3.32 | 5,077.13 | 5,282.31 | 88.9 | Zone 4 |
| J-230 | 4.15 | 5,076.30 | 5,281.55 | 88.94 | Zone 4 |
| J-589 | 7.7 | 5,082.17 | 5,287.49 | 88.97 | Zone 1 |
| J-226 | 4.15 | 5,075.95 | 5,281.39 | 89.01 | Zone 4 |
| J-276 | 5.82 | 5,076.67 | 5,282.18 | 89.05 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.31 | 89.19 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-414 | 0 | 5,076.16 | 5,282.35 | 89.34 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,317.53 | 89.38 | Zone 3 |
| J-297 | 0 | 5,076.00 | 5,282.32 | 89.4 | Zone 4 |
| J-436 | 5.4 | 5,075.48 | 5,281.85 | 89.42 | Zone 4 |
| J-228 | 4.15 | 5,075.04 | 5,281.46 | 89.44 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.19 | 89.45 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,281.01 | 89.51 | Zone 4 |
| J-401 | 3.74 | 5,075.73 | 5,282.33 | 89.52 | Zone 4 |
| J-295 | 5.4 | 5,075.72 | 5,282.32 | 89.52 | Zone 4 |
| J-278 | 4.99 | 5,075.57 | 5,282.19 | 89.53 | Zone 4 |
| J-162 | 6.42 | 5,074.91 | 5,281.54 | 89.54 | Zone 1 |
| J-415 | 0 | 5,075.53 | 5,282.31 | 89.6 | Zone 4 |
| J-296 | 4.57 | 5,075.50 | 5,282.32 | 89.61 | Zone 4 |
| J-254 | 2.91 | 5,074.06 | 5,281.06 | 89.69 | Zone 4 |
| J-315 | 5.82 | 5,075.27 | 5,282.33 | 89.72 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,282.19 | 89.83 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,281.75 | 89.99 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,286.95 | 90 | Zone 1 |
| J-314 | 0 | 5,074.59 | 5,282.33 | 90.01 | Zone 4 |
| J-400 | 3.32 | 5,074.49 | 5,282.35 | 90.07 | Zone 4 |
| J-294 | 3.74 | 5,074.33 | 5,282.30 | 90.12 | Zone 4 |
| J-303 | 2.08 | 5,074.07 | 5,282.23 | 90.19 | Zone 4 |
| J-316 | 9.75 | 5,074.16 | 5,282.33 | 90.2 | Zone 4 |
| J-312 | 5.82 | 5,073.95 | 5,282.35 | 90.3 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,281.64 | 90.32 | Zone 4 |
| J-137 | 4.57 | 5,108.67 | 5,317.30 | 90.4 | Zone 3 |
| J-233 | 4.77 | 5,072.79 | 5,281.66 | 90.5 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,281.85 | 90.54 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,281.55 | 90.56 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.19 | 90.59 | Zone 4 |
| J-308 | 6.65 | 5,073.29 | 5,282.37 | 90.59 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,281.39 | 90.6 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,282.35 | 90.64 | Zone 4 |
| J-260 | 2.49 | 5,072.80 | 5,282.01 | 90.65 | Zone 4 |
| J-266 | 3.74 | 5,072.93 | 5,282.23 | 90.69 | Zone 4 |
| J-313 | 4.99 | 5,072.76 | 5,282.35 | 90.81 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,281.46 | 90.88 | Zone 4 |
| J-150 | 5.77 | 5,066.84 | 5,276.83 | 90.99 | Zone 1 |
| J-310 | 5.82 | 5,072.34 | 5,282.37 | 91.01 | Zone 4 |
| J-309 | 4.15 | 5,072.32 | 5,282.37 | 91.02 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,281.31 | 91.05 | Zone 4 |
| J-259 | 2.49 | 5,072.01 | 5,282.17 | 91.06 | Zone 4 |
| J-588 | 5.77 | 5,077.31 | 5,287.49 | 91.07 | Zone 1 |
| J-385 | 5.12 | 5,076.49 | 5,287.18 | 91.29 | Zone 1 |
| J-300 | 3.32 | 5,071.64 | 5,282.37 | 91.31 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.02 | 91.33 | Zone 4 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-591 | 0 | 5,076.59 | 5,287.42 | 91.35 | Zone 1 |
| J-246 | 0 | 5,071.29 | 5,282.17 | 91.38 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,282.37 | 91.4 | Zone 4 |
| J-28 | 0 | 5,073.11 | 5,284.09 | 91.42 | Zone 1 |
| J-263 | 9.21 | 5,070.85 | 5,281.85 | 91.42 | Zone 4 |
| J-6 | 5.13 | 5,094.60 | 5,306.03 | 91.61 | Zone 1 |
| J-151 | 3.85 | 5,065.12 | 5,276.83 | 91.73 | Zone 1 |
| J-261 | 2.08 | 5,069.91 | 5,282.01 | 91.91 | Zone 4 |
| J-307 | 5.82 | 5,070.23 | 5,282.39 | 91.93 | Zone 4 |
| J-319 | 4.77 | 5,070.24 | 5,282.43 | 91.94 | Zone 4 |
| J-302 | 4.15 | 5,069.92 | 5,282.41 | 92.07 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,282.42 | 92.14 | Zone 4 |
| J-219 | 3.74 | 5,068.69 | 5,281.35 | 92.15 | Zone 4 |
| J-251 | 8.31 | 5,069.14 | 5,282.37 | 92.39 | Zone 4 |
| J-252 | 4.77 | 5,069.06 | 5,282.53 | 92.5 | Zone 4 |
| J-223 | 4.15 | 5,067.34 | 5,281.51 | 92.8 | Zone 4 |
| J-238 | 4.15 | 5,067.17 | 5,281.49 | 92.86 | Zone 4 |
| J-136 | 12.05 | 5,100.47 | 5,314.98 | 92.95 | Zone 3 |
| J-250 | 4.57 | 5,067.75 | 5,282.27 | 92.95 | Zone 4 |
| J-247 | 10.39 | 5,067.68 | 5,282.46 | 93.06 | Zone 4 |
| J-220 | 4.15 | 5,066.08 | 5,281.40 | 93.3 | Zone 4 |
| J-221 | 4.15 | 5,066.06 | 5,281.45 | 93.33 | Zone 4 |
| J-135 | 14.13 | 5,097.88 | 5,315.07 | 94.11 | Zone 3 |
| J-289 | 5.13 | 5,087.80 | 5,305.82 | 94.47 | Zone 1 |
| J-152 | 6.42 | 5,058.73 | 5,276.83 | 94.5 | Zone 1 |
| J-164 | 8.98 | 5,059.45 | 5,278.27 | 94.81 | Zone 1 |
| J-153 | 5.77 | 5,056.40 | 5,276.83 | 95.51 | Zone 1 |
| J-163 | 8.34 | 5,058.71 | 5,279.24 | 95.56 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,281.18 | 95.59 | Zone 1 |
| J-158 | 12.83 | 5,060.32 | 5,281.30 | 95.75 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,276.31 | 95.92 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,285.63 | 96.01 | Zone 4 |
| J-165 | 13.47 | 5,057.28 | 5,280.19 | 96.59 | Zone 1 |
| J-154 | 8.97 | 5,053.62 | 5,276.83 | 96.72 | Zone 1 |
| J-155 | 5.13 | 5,051.81 | 5,276.83 | 97.5 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,275.66 | 97.5 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,276.31 | 97.62 | Zone 1 |
| J-305 | 5.13 | 5,077.07 | 5,305.03 | 98.78 | Zone 1 |
| J-611 | 4.49 | 5,049.06 | 5,277.11 | 98.81 | Zone 1 |
| J-612 | 6.83 | 5,047.26 | 5,277.11 | 99.59 | Zone 1 |
| J-304 | 5.13 | 5,072.38 | 5,305.03 | 100.81 | Zone 1 |
| J-49 | 9.62 | 5,042.76 | 5,280.02 | 102.81 | Zone 1 |
| J-48 | 9.62 | 5,042.96 | 5,280.28 | 102.83 | Zone 1 |
| J-47 | 7.7 | 5,043.03 | 5,280.72 | 102.99 | Zone 1 |
| J-35 | 7.06 | 5,040.53 | 5,281.86 | 104.57 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,283.55 | 105.04 | Zone 1 |

GBWC-CSD Existing MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-1252IRR | 8.1 | 5,040.67 | 5,283.50 | 105.22 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,283.55 | 105.41 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,283.55 | 105.48 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,283.55 | 105.64 | Zone 1 |
| J-13 | 5.12 | 5,039.32 | 5,283.56 | 105.83 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,290.36 | 106.42 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.26 | 106.43 | Zone 4 |
| J-827 | 0 | 5,042.00 | 5,291.01 | 107.9 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,291.79 | 108.66 | Zone 4 |
| J-10 | 5.13 | 5,052.43 | 5,303.28 | 108.69 | Zone 1 |
| J-8 | 5.13 | 5,054.92 | 5,305.86 | 108.73 | Zone 1 |
| J-826 | 0 | 5,040.97 | 5,292.05 | 108.79 | Zone 4 |
| J-12 | 0 | 5,037.80 | 5,290.38 | 109.44 | Zone 1 |
| J-9 | 5.13 | 5,049.50 | 5,304.18 | 110.36 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,298.06 | 114.23 | Zone 1 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253.23 | 5,282.77 | 12.8 | Zone 4 |
| J-243 | 0 | 5,266.30 | 5,323.26 | 24.68 | Zone 3 |
| J-33 | 0 | 5,085.16 | 5,176.54 | 39.59 | Zone 2 |
| J-127 | 7.97 | 5,087.12 | 5,180.22 | 40.34 | Zone 2 |
| J-742 | 0 | 5,189.36 | 5,282.73 | 40.46 | Zone 4 |
| J-760 | 0 | 5,189.25 | 5,282.73 | 40.51 | Zone 4 |
| J-241 | 0 | 5,189.14 | 5,282.73 | 40.56 | Zone 4 |
| H-5-PH18 | 0 | 5,188.76 | 5,282.73 | 40.72 | Zone 4 |
| J-743 | 4.74 | 5,188.35 | 5,282.73 | 40.9 | Zone 4 |
| H-9-PH19 | 0 | 5,187.77 | 5,282.73 | 41.15 | Zone 4 |
| J-759 | 0 | 5,187.36 | 5,282.73 | 41.33 | Zone 4 |
| J-747 | 3.88 | 5,186.03 | 5,282.73 | 41.9 | Zone 4 |
| J-79 | 21.26 | 5,083.12 | 5,180.08 | 42.01 | Zone 2 |
| J-87 | 6.38 | 5,082.66 | 5,179.91 | 42.14 | Zone 2 |
| J-1329 | 7.84 | 5,083.35 | 5,180.70 | 42.18 | Zone 2 |
| H-8-PH19 | 0 | 5,185.11 | 5,282.73 | 42.3 | Zone 4 |
| J-77 | 6.91 | 5,082.17 | 5,179.90 | 42.35 | Zone 2 |
| J-749 | 0 | 5,184.71 | 5,282.73 | 42.47 | Zone 4 |
| J-1308 | 3.99 | 5,082.22 | 5,180.52 | 42.59 | Zone 2 |
| J-1304 | 3.99 | 5,082.22 | 5,180.53 | 42.6 | Zone 2 |
| J-128 | 9.03 | 5,081.52 | 5,180.05 | 42.69 | Zone 2 |
| H-7-PH19 | 0 | 5,184.12 | 5,282.73 | 42.73 | Zone 4 |
| J-78 | 0 | 5,081.03 | 5,179.84 | 42.81 | Zone 2 |
| J-746 | 0 | 5,183.77 | 5,282.73 | 42.88 | Zone 4 |
| J-129 | 0.00 | 5,080.95 | 5,179.93 | 42.89 | Zone 2 |
| J-75 | 4.25 | 5,080.57 | 5,180.17 | 43.15 | Zone 2 |
| J-751 | 3.45 | 5,183.05 | 5,282.73 | 43.19 | Zone 4 |
| J-126 | 8.5 | 5,080.04 | 5,179.94 | 43.29 | Zone 2 |
| J-65 | 5.85 | 5,079.55 | 5,179.88 | 43.47 | Zone 2 |
| J-80 | 0 | 5,079.11 | 5,179.71 | 43.59 | Zone 2 |
| J-88 | 7.44 | 5,078.91 | 5,179.96 | 43.78 | Zone 2 |
| J-125 | 0 | 5,078.39 | 5,179.80 | 43.94 | Zone 2 |
| J-64 | 5.85 | 5,078.45 | 5,180.05 | 44.02 | Zone 2 |
| J-83 | 6.38 | 5,077.46 | 5,180.06 | 44.46 | Zone 2 |
| J-130 | 7.97 | 5,077.34 | 5,180.04 | 44.5 | Zone 2 |
| J-1309 | 3.99 | 5,077.50 | 5,180.52 | 44.64 | Zone 2 |
| J-1328 | 7.84 | 5,077.35 | 5,180.55 | 44.72 | Zone 2 |
| J-1338 | 7.84 | 5,077.50 | 5,180.71 | 44.72 | Zone 2 |
| J-480 | 0 | 5,178.80 | 5,282.73 | 45.03 | Zone 4 |
| J-82 | 0 | 5,076.00 | 5,180.06 | 45.09 | Zone 2 |
| J-240 | 0 | 5,075.78 | 5,180.04 | 45.17 | Zone 2 |
| J-133 | 10.63 | 5,075.16 | 5,179.87 | 45.37 | Zone 2 |
| J-1325 | 7.31 | 5,075.75 | 5,180.52 | 45.4 | Zone 2 |
| J-1310 | 3.99 | 5,075.50 | 5,180.52 | 45.51 | Zone 2 |
| J-1307 | 3.99 | 5,075.22 | 5,180.52 | 45.63 | Zone 2 |
| J-1306 | 3.99 | 5,075.22 | 5,180.52 | 45.63 | Zone 2 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-1305 | 3.99 | 5,075.22 | 5,180.52 | 45.63 | Zone 2 |
| J-1311 | 3.99 | 5,075.22 | 5,180.53 | 45.63 | Zone 2 |
| J-1312 | 3.99 | 5,075.22 | 5,180.53 | 45.63 | Zone 2 |
| J-76 | 2.66 | 5,074.67 | 5,180.16 | 45.71 | Zone 2 |
| J-397 | 5.17 | 5,177.11 | 5,282.73 | 45.76 | Zone 4 |
| J-84 | 7.44 | 5,074.37 | 5,180.08 | 45.8 | Zone 2 |
| J-89 | 0 | 5,073.98 | 5,180.00 | 45.94 | Zone 2 |
| J-396 | 6.03 | 5,176.61 | 5,282.73 | 45.98 | Zone 4 |
| J-1315 | 3.99 | 5,074.22 | 5,180.54 | 46.07 | Zone 2 |
| H-6-PH19 | 0 | 5,176.29 | 5,282.73 | 46.12 | Zone 4 |
| J-132 | 0 | 5,073.50 | 5,179.95 | 46.13 | Zone 2 |
| J-1326 | 7.31 | 5,073.75 | 5,180.52 | 46.26 | Zone 2 |
| J-1336 | 7.84 | 5,073.50 | 5,180.55 | 46.38 | Zone 2 |
| J-66 | 7.44 | 5,072.89 | 5,180.18 | 46.49 | Zone 2 |
| J-753 | 4.31 | 5,175.42 | 5,282.73 | 46.5 | Zone 4 |
| J-131 | 10.63 | 5,072.63 | 5,180.04 | 46.54 | Zone 2 |
| SELEMSC | 5.31 | 5,072.70 | 5,180.18 | 46.57 | Zone 2 |
| J-81 | 10.63 | 5,072.64 | 5,180.16 | 46.59 | Zone 2 |
| J-90 | 6.38 | 5,072.44 | 5,180.06 | 46.63 | Zone 2 |
| J-134 | 0 | 5,072.25 | 5,180.05 | 46.71 | Zone 2 |
| J-1314 | 7.84 | 5,072.50 | 5,180.54 | 46.82 | Zone 2 |
| J-1315-2 | 0 | 5,072.50 | 5,180.54 | 46.82 | Zone 2 |
| J-1314-1 | 7.84 | 5,072.50 | 5,180.55 | 46.82 | Zone 2 |
| J-1324 | 7.31 | 5,072.31 | 5,180.54 | 46.89 | Zone 2 |
| J-98 | 0 | 5,071.85 | 5,180.12 | 46.91 | Zone 2 |
| J-93 | 0 | 5,071.70 | 5,180.05 | 46.95 | Zone 2 |
| J-85 | 6.91 | 5,071.59 | 5,180.08 | 47.01 | Zone 2 |
| J-1315-1 | 7.84 | 5,072.22 | 5,180.76 | 47.03 | Zone 2 |
| J-1339 | 7.84 | 5,072.14 | 5,180.85 | 47.11 | Zone 2 |
| J-91 | 0 | 5,071.44 | 5,180.17 | 47.11 | Zone 2 |
| J-124 | 0 | 5,071.50 | 5,180.28 | 47.13 | Zone 2 |
| PH19IRR | 0 | 5,173.54 | 5,282.73 | 47.31 | Zone 4 |
| J-398 | 4.95 | 5,173.42 | 5,282.73 | 47.36 | Zone 4 |
| H-5-PH19 | 0 | 5,173.37 | 5,282.73 | 47.38 | Zone 4 |
| J-1327 | 7.31 | 5,071.06 | 5,180.54 | 47.44 | Zone 2 |
| J-1299 | 7.84 | 5,071.46 | 5,180.95 | 47.44 | Zone 2 |
| J-44 | 10.1 | 5,070.66 | 5,180.31 | 47.51 | Zone 2 |
| J-355 | 0 | 5,070.63 | 5,180.30 | 47.52 | Zone 2 |
| J-92 | 7.97 | 5,070.22 | 5,180.06 | 47.59 | Zone 2 |
| J-752 | 4.31 | 5,172.78 | 5,282.73 | 47.64 | Zone 4 |
| J-99 | 0 | 5,070.00 | 5,180.09 | 47.7 | Zone 2 |
| J-1302 | 3.99 | 5,069.96 | 5,180.86 | 48.05 | Zone 2 |
| J-120 | 10.63 | 5,069.37 | 5,180.28 | 48.06 | Zone 2 |
| J-40 | 10.1 | 5,069.17 | 5,180.17 | 48.09 | Zone 2 |
| J-1303 | 3.99 | 5,069.82 | 5,180.86 | 48.12 | Zone 2 |
| J-1301 | 3.99 | 5,069.72 | 5,180.86 | 48.16 | Zone 2 |

GBWC-CSD Preferred MDD (Tank 2 On)
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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-45 | 8.5 | 5,069.09 | 5,180.28 | 48.18 | Zone 2 |
| J-1316 | 0 | 5,069.33 | 5,180.86 | 48.33 | Zone 2 |
| J-234 | 3.02 | 5,210.77 | 5,322.82 | 48.55 | Zone 3 |
| J-115 | 6.91 | 5,068.19 | 5,180.29 | 48.57 | Zone 2 |
| J-95 | 10.1 | 5,067.85 | 5,180.18 | 48.67 | Zone 2 |
| J-86 | 0 | 5,067.69 | 5,180.13 | 48.72 | Zone 2 |
| J-106 | 9.03 | 5,067.26 | 5,180.24 | 48.95 | Zone 2 |
| J-1298 | 0 | 5,068.04 | 5,181.11 | 48.99 | Zone 2 |
| J-121 | 0 | 5,067.03 | 5,180.28 | 49.07 | Zone 2 |
| J-109 | 5.31 | 5,066.75 | 5,180.23 | 49.17 | Zone 2 |
| J-96 | 8.5 | 5,066.64 | 5,180.18 | 49.2 | Zone 2 |
| J-62 | 5.31 | 5,066.21 | 5,180.15 | 49.37 | Zone 2 |
| J-105 | 0 | 5,066.29 | 5,180.24 | 49.37 | Zone 2 |
| J-67 | 8.5 | 5,066.14 | 5,180.19 | 49.42 | Zone 2 |
| J-108 | 7.44 | 5,066.01 | 5,180.24 | 49.5 | Zone 2 |
| J-119 | 5.31 | 5,065.91 | 5,180.27 | 49.55 | Zone 2 |
| J-1248 | 0 | 5,065.60 | 5,180.26 | 49.68 | Zone 2 |
| J-118 | 5.85 | 5,065.58 | 5,180.28 | 49.7 | Zone 2 |
| J-104 | 6.91 | 5,065.24 | 5,180.23 | 49.83 | Zone 2 |
| J-103 | 5.85 | 5,065.09 | 5,180.23 | 49.89 | Zone 2 |
| J-70 | 3.72 | 5,065.15 | 5,180.36 | 49.92 | Zone 2 |
| WELL2 | 0 | 5,065.04 | 5,180.28 | 49.93 | Zone 2 |
| J-114 | 8.5 | 5,065.03 | 5,180.30 | 49.95 | Zone 2 |
| J-1300 | 3.99 | 5,065.58 | 5,180.89 | 49.97 | Zone 2 |
| J-123 | 8.5 | 5,064.73 | 5,180.28 | 50.07 | Zone 2 |
| J-110 | 13.28 | 5,064.61 | 5,180.30 | 50.13 | Zone 2 |
| J-1342 | 7.84 | 5,065.16 | 5,180.90 | 50.15 | Zone 2 |
| J-1343 | 0 | 5,065.16 | 5,180.90 | 50.15 | Zone 2 |
| J-97 | 0 | 5,064.28 | 5,180.26 | 50.25 | Zone 2 |
| J-1335 | 7.84 | 5,064.86 | 5,180.91 | 50.28 | Zone 2 |
| J-1341 | 0 | 5,064.84 | 5,180.92 | 50.3 | Zone 2 |
| J-39 | 8.5 | 5,063.96 | 5,180.14 | 50.34 | Zone 2 |
| J-1340 | 7.84 | 5,064.53 | 5,180.92 | 50.43 | Zone 2 |
| J-117 | 0 | 5,063.63 | 5,180.28 | 50.55 | Zone 2 |
| J-38 | 9.57 | 5,063.32 | 5,180.14 | 50.62 | Zone 2 |
| J-122 | 7.44 | 5,063.36 | 5,180.28 | 50.66 | Zone 2 |
| J-116 | 7.44 | 5,062.99 | 5,180.28 | 50.83 | Zone 2 |
| H-4-PH19 | 0 | 5,165.31 | 5,282.73 | 50.88 | Zone 4 |
| J-1 | 0 | 5,205.92 | 5,323.41 | 50.91 | Zone 1 |
| J-111 | 9.57 | 5,062.56 | 5,180.37 | 51.05 | Zone 2 |
| J-481 | 0 | 5,164.80 | 5,282.73 | 51.1 | Zone 4 |
| J-755 | 4.31 | 5,164.76 | 5,282.73 | 51.12 | Zone 4 |
| J-275 | 7.44 | 5,062.11 | 5,180.31 | 51.22 | Zone 2 |
| J-235 | 0 | 5,204.09 | 5,322.91 | 51.48 | Zone 3 |
| H-3-PH19 | 0 | 5,163.54 | 5,282.73 | 51.65 | Zone 4 |
| J-744 | 0 | 5,162.73 | 5,282.73 | 52 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-73 | 0 | 5,060.23 | 5,180.26 | 52.01 | Zone 2 |
| J-237 | 3.45 | 5,202.45 | 5,322.91 | 52.2 | Zone 3 |
| J-756 | 4.31 | 5,162.22 | 5,282.73 | 52.22 | Zone 4 |
| J-100 | 6.91 | 5,059.56 | 5,180.64 | 52.46 | Zone 2 |
| J-2 | 0 | 5,202.02 | 5,323.18 | 52.5 | Zone 1 |
| J-101 | 0 | 5,059.38 | 5,180.67 | 52.56 | Zone 2 |
| J-61 | 9.57 | 5,058.70 | 5,180.15 | 52.62 | Zone 2 |
| J-74 | 9.03 | 5,057.51 | 5,180.29 | 53.2 | Zone 2 |
| J-72 | 11.69 | 5,056.99 | 5,180.23 | 53.4 | Zone 2 |
| J-395 | 4.31 | 5,159.38 | 5,282.73 | 53.45 | Zone 4 |
| J-17 | 0 | 5,056.94 | 5,180.44 | 53.51 | Zone 2 |
| J-185 | 0 | 5,199.32 | 5,322.82 | 53.52 | Zone 3 |
| J-60 | 8.5 | 5,056.56 | 5,180.14 | 53.55 | Zone 2 |
| J-112 | 11.16 | 5,056.59 | 5,180.48 | 53.68 | Zone 2 |
| J-102 | 10.63 | 5,056.39 | 5,180.92 | 53.96 | Zone 2 |
| J-71 | 0 | 5,055.86 | 5,180.44 | 53.98 | Zone 2 |
| J-274 | 5.31 | 5,055.45 | 5,180.34 | 54.11 | Zone 2 |
| J-392 | 6.03 | 5,157.68 | 5,282.73 | 54.18 | Zone 4 |
| J-394 | 6.03 | 5,157.67 | 5,282.73 | 54.18 | Zone 4 |
| J-59 | 5.31 | 5,056.59 | 5,182.03 | 54.35 | Zone 2 |
| J-157 | 0 | 5,054.13 | 5,180.22 | 54.63 | Zone 2 |
| J-43 | 5.31 | 5,054.95 | 5,181.11 | 54.67 | Zone 2 |
| J-113 | 2.13 | 5,053.87 | 5,180.41 | 54.83 | Zone 2 |
| J-57 | 7.44 | 5,053.23 | 5,181.60 | 55.62 | Zone 2 |
| J-399 | 0 | 5,153.84 | 5,282.73 | 55.85 | Zone 4 |
| J-69 | 0 | 5,051.20 | 5,180.26 | 55.92 | Zone 2 |
| H-2-PH19 | 0 | 5,152.99 | 5,282.73 | 56.21 | Zone 4 |
| WELL7 | 0 | 5,200.02 | 5,329.95 | 56.3 | Zone 1 |
| J-68 | 7.44 | 5,050.26 | 5,180.23 | 56.32 | Zone 2 |
| J-37 | 0 | 5,051.70 | 5,181.72 | 56.34 | Zone 2 |
| J-16 | 0 | 5,050.22 | 5,180.52 | 56.46 | Zone 2 |
| J-758 | 4.31 | 5,152.20 | 5,282.73 | 56.56 | Zone 4 |
| J-58 | 0 | 5,050.51 | 5,181.52 | 56.77 | Zone 2 |
| PH19IRR | 0 | 5,150.63 | 5,282.73 | 57.24 | Zone 4 |
| H-1-PH19 | 0 | 5,150.61 | 5,282.73 | 57.25 | Zone 4 |
| J-53 | 9.57 | 5,049.40 | 5,181.82 | 57.38 | Zone 2 |
| J-757 | 4.31 | 5,149.86 | 5,282.73 | 57.57 | Zone 4 |
| J-1246 | 0 | 5,049.10 | 5,182.15 | 57.65 | Zone 2 |
| J-192 | 3.1 | 5,189.42 | 5,322.95 | 57.86 | Zone 1 |
| J-1245 | 0 | 5,050.16 | 5,183.86 | 57.93 | Zone 2 |
| J-63 | 11.07 | 5,046.87 | 5,181.00 | 58.12 | Zone 2 |
| J-55 | 6.38 | 5,047.20 | 5,182.55 | 58.65 | Zone 2 |
| J-50 | 6.38 | 5,046.44 | 5,181.82 | 58.66 | Zone 2 |
| J-393 | 5.17 | 5,146.64 | 5,282.72 | 58.97 | Zone 4 |
| J-805 | 0 | 5,045.43 | 5,181.82 | 59.1 | Zone 4 |
| J-391 | 4.31 | 5,146.19 | 5,282.73 | 59.16 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-21-PH19 | 0 | 5,045.03 | 5,181.82 | 59.27 | Zone 4 |
| WELL6 | 0 | 5,190.68 | 5,327.59 | 59.32 | Zone 1 |
| J-255 | 0 | 5,045.07 | 5,182.02 | 59.34 | Zone 2 |
| J-51 | 4.78 | 5,044.68 | 5,181.82 | 59.42 | Zone 2 |
| J-140 | 11.21 | 5,185.26 | 5,322.72 | 59.56 | Zone 3 |
| J-56 | 9.57 | 5,044.22 | 5,182.11 | 59.75 | Zone 2 |
| J-15 | 6.19 | 5,044.50 | 5,182.76 | 59.91 | Zone 2 |
| ALLEYCHU | 10.62 | 5,043.33 | 5,182.01 | 60.09 | Zone 2 |
| J-52 | 3.72 | 5,043.12 | 5,181.82 | 60.1 | Zone 2 |
| J-194 | 7.97 | 5,043.07 | 5,181.82 | 60.12 | Zone 2 |
| J-42 | 3.1 | 5,043.48 | 5,182.25 | 60.13 | Zone 2 |
| FH-925 | 0 | 5,143.68 | 5,282.73 | 60.25 | Zone 4 |
| J-54 | 0 | 5,044.83 | 5,184.29 | 60.43 | Zone 2 |
| J-23-1188 | 1.29 | 5,142.91 | 5,282.72 | 60.58 | Zone 4 |
| J-797 | 9.57 | 5,046.51 | 5,186.71 | 60.75 | Zone 2 |
| J-482 | 0 | 5,142.30 | 5,282.73 | 60.85 | Zone 4 |
| J22-901 | 0 | 5,142.20 | 5,282.72 | 60.89 | Zone 4 |
| J-142 | 5.6 | 5,182.03 | 5,322.56 | 60.89 | Zone 3 |
| J-23-1191 | 0 | 5,142.10 | 5,282.72 | 60.93 | Zone 4 |
| J-23-1190 | 0.86 | 5,142.00 | 5,282.72 | 60.97 | Zone 4 |
| J-23-1193 | 3.02 | 5,142.00 | 5,282.72 | 60.97 | Zone 4 |
| J-23-1192 | 0 | 5,141.96 | 5,282.72 | 60.99 | Zone 4 |
| J-23-1189 | 1.29 | 5,141.96 | 5,282.72 | 60.99 | Zone 4 |
| J-3 | 0 | 5,179.43 | 5,320.19 | 60.99 | Zone 1 |
| J-23-1187 | 0.86 | 5,141.83 | 5,282.72 | 61.05 | Zone 4 |
| NDYKEWE | 0 | 5,045.67 | 5,186.89 | 61.19 | Zone 2 |
| J-830 | 0 | 5,141.48 | 5,282.72 | 61.2 | Zone 4 |
| J-193 | 5.32 | 5,175.44 | 5,317.44 | 61.53 | Zone 1 |
| 9RENOTR | 3.1 | 5,042.15 | 5,184.29 | 61.59 | Zone 2 |
| J-679 | 7.33 | 5,140.42 | 5,282.72 | 61.66 | Zone 4 |
| J-1184 | 0 | 5,140.06 | 5,282.72 | 61.81 | Zone 4 |
| J-23-1186 | 0 | 5,139.93 | 5,282.72 | 61.87 | Zone 4 |
| J-23-1225 | 0 | 5,139.83 | 5,282.72 | 61.91 | Zone 4 |
| J-685 | 0 | 5,139.45 | 5,282.73 | 62.08 | Zone 4 |
| H-68-PH19 | 0 | 5,139.29 | 5,282.72 | 62.15 | Zone 4 |
| J-390 | 0 | 5,139.21 | 5,282.72 | 62.18 | Zone 4 |
| J-836 | 3.88 | 5,139.17 | 5,282.72 | 62.2 | Zone 4 |
| J-819 | 0 | 5,139.09 | 5,282.72 | 62.23 | Zone 4 |
| J-829 | 0 | 5,138.72 | 5,282.72 | 62.4 | Zone 4 |
| AV-1 | 0 | 5,138.66 | 5,282.72 | 62.42 | Zone 4 |
| H-67-PH19 | 0 | 5,138.40 | 5,282.72 | 62.53 | Zone 4 |
| FH-921 | 0 | 5,138.31 | 5,282.72 | 62.58 | Zone 4 |
| J-841 | 0 | 5,138.08 | 5,282.72 | 62.67 | Zone 4 |
| J-820 | 0 | 5,136.66 | 5,282.72 | 63.29 | Zone 4 |
| H-7-PH20 | 0 | 5,136.55 | 5,282.72 | 63.34 | Zone 4 |
| J-1199 | 0 | 5,136.51 | 5,282.72 | 63.35 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-815 | 4.95 | 5,135.92 | 5,282.72 | 63.61 | Zone 4 |
| PH22-FH1 | 0 | 5,135.78 | 5,282.72 | 63.67 | Zone 4 |
| J-1262 | 3.1 | 5,171.87 | 5,319.58 | 64 | Zone 1 |
| J-678 | 0 | 5,135.00 | 5,282.72 | 64.01 | Zone 4 |
| J-352 | 5.6 | 5,134.35 | 5,282.73 | 64.29 | Zone 4 |
| FH-922 | 0 | 5,133.52 | 5,282.72 | 64.65 | Zone 4 |
| FH-926 | 0 | 5,133.11 | 5,282.73 | 64.83 | Zone 4 |
| J-187 | 0 | 5,172.80 | 5,322.69 | 64.94 | Zone 3 |
| H-4-PH20 | 0 | 5,132.77 | 5,282.72 | 64.97 | Zone 4 |
| J-810 | 0 | 5,132.51 | 5,282.72 | 65.08 | Zone 4 |
| J-816 | 5.17 | 5,132.14 | 5,282.72 | 65.25 | Zone 4 |
| J-730 | 0 | 5,131.29 | 5,282.72 | 65.61 | Zone 4 |
| J-806 | 0 | 5,131.12 | 5,282.72 | 65.69 | Zone 4 |
| J-732 | 0 | 5,130.98 | 5,282.72 | 65.75 | Zone 4 |
| H-1-PH20 | 0 | 5,130.96 | 5,282.72 | 65.76 | Zone 4 |
| H-2-PH18 | 0 | 5,130.74 | 5,282.72 | 65.85 | Zone 4 |
| J-677 | 8.62 | 5,130.35 | 5,282.72 | 66.02 | Zone 4 |
| J-145 | 5.17 | 5,170.11 | 5,322.58 | 66.06 | Zone 3 |
| J-688 | 4.95 | 5,129.98 | 5,282.73 | 66.19 | Zone 4 |
| FH-923 | 0 | 5,129.94 | 5,282.73 | 66.2 | Zone 4 |
| J22-899 | 0 | 5,129.83 | 5,282.72 | 66.25 | Zone 4 |
| J-23-1195 | 1.29 | 5,129.79 | 5,282.72 | 66.26 | Zone 4 |
| J-23-1196 | 1.72 | 5,129.79 | 5,282.72 | 66.27 | Zone 4 |
| J-811 | 5.6 | 5,129.75 | 5,282.72 | 66.28 | Zone 4 |
| J-23-1194 | 2.15 | 5,129.54 | 5,282.72 | 66.37 | Zone 4 |
| J-687 | 0 | 5,129.21 | 5,282.73 | 66.52 | Zone 4 |
| J-807 | 4.74 | 5,129.05 | 5,282.72 | 66.59 | Zone 4 |
| J-23-1197 | 1.29 | 5,128.77 | 5,282.72 | 66.71 | Zone 4 |
| J-141 | 4.74 | 5,168.63 | 5,322.60 | 66.72 | Zone 3 |
| J-675 | 0 | 5,128.70 | 5,282.73 | 66.74 | Zone 4 |
| J-839 | 0 | 5,127.72 | 5,282.72 | 67.16 | Zone 4 |
| J-483 | 0 | 5,127.70 | 5,282.73 | 67.17 | Zone 4 |
| H-69-PH19 | 0 | 5,127.37 | 5,282.72 | 67.31 | Zone 4 |
| J-676 | 0 | 5,127.37 | 5,282.73 | 67.32 | Zone 4 |
| FH-930 | 0 | 5,126.99 | 5,282.73 | 67.48 | Zone 4 |
| J-443 | 4.31 | 5,126.84 | 5,282.72 | 67.54 | Zone 4 |
| J-4 | 8.42 | 5,162.98 | 5,318.90 | 67.56 | Zone 1 |
| J-576 | 5.17 | 5,126.40 | 5,282.73 | 67.74 | Zone 4 |
| J-1198 | 0 | 5,125.95 | 5,282.72 | 67.93 | Zone 4 |
| FH-927 | 0 | 5,125.90 | 5,282.73 | 67.96 | Zone 4 |
| J-842 | 3.88 | 5,125.62 | 5,282.72 | 68.07 | Zone 4 |
| H-8-PH20 | 0 | 5,125.42 | 5,282.72 | 68.16 | Zone 4 |
| H-66-PH19 | 0 | 5,125.20 | 5,282.72 | 68.25 | Zone 4 |
| J-844 | 2.15 | 5,124.82 | 5,282.72 | 68.42 | Zone 4 |
| H-5-PH20 | 0 | 5,124.50 | 5,282.72 | 68.56 | Zone 4 |
| J-736 | 6.03 | 5,124.23 | 5,282.72 | 68.68 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-652 | 6.66 | 5,147.64 | 5,306.31 | 68.75 | Zone 1 |
| H-2-PH20 | 0 | 5,123.59 | 5,282.72 | 68.95 | Zone 4 |
| J-817 | 0 | 5,122.16 | 5,282.72 | 69.57 | Zone 4 |
| J-846 | 0 | 5,121.84 | 5,282.72 | 69.71 | Zone 4 |
| J-690 | 0 | 5,121.80 | 5,282.73 | 69.73 | Zone 4 |
| H-9-PH20 | 0 | 5,121.59 | 5,282.72 | 69.82 | Zone 4 |
| J-674 | 0 | 5,121.42 | 5,282.73 | 69.89 | Zone 4 |
| J-143 | 3.88 | 5,160.94 | 5,322.56 | 70.03 | Zone 3 |
| H-6-PH20 | 0 | 5,121.04 | 5,282.72 | 70.06 | Zone 4 |
| J-808 | 0 | 5,120.84 | 5,282.72 | 70.14 | Zone 4 |
| H-65-PH19 | 0 | 5,120.81 | 5,282.72 | 70.15 | Zone 4 |
| J-843 | 0 | 5,120.79 | 5,282.72 | 70.16 | Zone 4 |
| J-812 | 0 | 5,120.76 | 5,282.72 | 70.18 | Zone 4 |
| J22-1078 | 0 | 5,120.76 | 5,282.72 | 70.18 | Zone 4 |
| J-389 | 1.72 | 5,120.37 | 5,282.72 | 70.35 | Zone 4 |
| FH-924 | 0 | 5,120.34 | 5,282.73 | 70.36 | Zone 4 |
| J-23-1201 | 1.72 | 5,119.21 | 5,282.72 | 70.85 | Zone 4 |
| J-348 | 4.31 | 5,119.14 | 5,282.72 | 70.88 | Zone 4 |
| J-23-1202 | 2.15 | 5,118.91 | 5,282.72 | 70.98 | Zone 4 |
| J-813 | 5.17 | 5,118.03 | 5,282.72 | 71.36 | Zone 4 |
| J-818 | 4.74 | 5,117.96 | 5,282.72 | 71.39 | Zone 4 |
| J-680 | 5.6 | 5,117.93 | 5,282.73 | 71.41 | Zone 4 |
| J-184 | 4.95 | 5,117.91 | 5,282.72 | 71.41 | Zone 4 |
| J-1200 | 0 | 5,117.54 | 5,282.72 | 71.57 | Zone 4 |
| H-3-PH20 | 0 | 5,117.46 | 5,282.72 | 71.61 | Zone 4 |
| H-3-PH18 | 0 | 5,117.38 | 5,282.72 | 71.64 | Zone 4 |
| J-823 | 0 | 5,117.34 | 5,282.72 | 71.66 | Zone 4 |
| J-809 | 4.74 | 5,117.32 | 5,282.72 | 71.67 | Zone 4 |
| J-729 | 0 | 5,116.93 | 5,282.72 | 71.84 | Zone 4 |
| J-346 | 0 | 5,116.15 | 5,282.72 | 72.18 | Zone 4 |
| J-735 | 0 | 5,116.01 | 5,282.72 | 72.24 | Zone 4 |
| J-851 | 3.45 | 5,115.88 | 5,282.72 | 72.29 | Zone 4 |
| H-61-PH19 | 0 | 5,115.88 | 5,282.72 | 72.29 | Zone 4 |
| J-1183 | 0 | 5,115.82 | 5,282.72 | 72.32 | Zone 4 |
| PH22-FH2 | 0 | 5,115.49 | 5,282.72 | 72.46 | Zone 4 |
| J-770 | 0 | 5,115.48 | 5,282.72 | 72.47 | Zone 4 |
| FH-928 | 0 | 5,115.38 | 5,282.73 | 72.51 | Zone 4 |
| J-833 | 0 | 5,115.28 | 5,282.72 | 72.55 | Zone 4 |
| H-64-PH19 | 0 | 5,115.23 | 5,282.72 | 72.57 | Zone 4 |
| J-840 | 4.31 | 5,114.89 | 5,282.72 | 72.72 | Zone 4 |
| J-845 | 4.31 | 5,114.73 | 5,282.72 | 72.79 | Zone 4 |
| H-70-PH19 | 0 | 5,114.57 | 5,282.72 | 72.86 | Zone 4 |
| J22-886 | 1.29 | 5,114.17 | 5,282.72 | 73.03 | Zone 4 |
| J-814 | 0 | 5,114.15 | 5,282.72 | 73.04 | Zone 4 |
| H-58-PH19 | 0 | 5,113.97 | 5,282.72 | 73.12 | Zone 4 |
| J-855 | 3.88 | 5,113.88 | 5,282.72 | 73.16 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-442 | 4.74 | 5,113.79 | 5,282.72 | 73.2 | Zone 4 |
| PH22-FH4 | 0 | 5,113.77 | 5,282.72 | 73.21 | Zone 4 |
| J22-884 | 1.29 | 5,113.64 | 5,282.72 | 73.26 | Zone 4 |
| H-60-PH19 | 0 | 5,113.58 | 5,282.72 | 73.29 | Zone 4 |
| J-832 | 0 | 5,113.49 | 5,282.72 | 73.33 | Zone 4 |
| J-689 | 3.88 | 5,113.48 | 5,282.73 | 73.33 | Zone 4 |
| J22-1079 | 2.88 | 5,113.43 | 5,282.72 | 73.35 | Zone 4 |
| J22-1159 | 1.29 | 5,113.40 | 5,282.72 | 73.37 | Zone 4 |
| J-852 | 3.45 | 5,113.35 | 5,282.72 | 73.39 | Zone 4 |
| J22-1158 | 1.29 | 5,113.34 | 5,282.72 | 73.39 | Zone 4 |
| PH22-FH3 | 0 | 5,113.29 | 5,282.72 | 73.41 | Zone 4 |
| H-59-PH19 | 0 | 5,113.22 | 5,282.72 | 73.45 | Zone 4 |
| J-856 | 3.88 | 5,113.19 | 5,282.72 | 73.46 | Zone 4 |
| J-139 | 0 | 5,153.08 | 5,322.66 | 73.48 | Zone 3 |
| J22-1080 | 0 | 5,113.14 | 5,282.72 | 73.48 | Zone 4 |
| J-650 | 0 | 5,112.98 | 5,282.74 | 73.56 | Zone 4 |
| J-448 | 7.32 | 5,134.46 | 5,304.60 | 73.72 | Zone 1 |
| MIDDLESCH | 4.95 | 5,112.14 | 5,282.74 | 73.92 | Zone 4 |
| J-441 | 4.74 | 5,112.05 | 5,282.72 | 73.95 | Zone 4 |
| J-783 | 3.02 | 5,112.00 | 5,282.72 | 73.97 | Zone 4 |
| J-570 | 0 | 5,112.01 | 5,282.73 | 73.98 | Zone 4 |
| J-434 | 3.45 | 5,111.84 | 5,282.71 | 74.04 | Zone 4 |
| H-20-PH17 | 0 | 5,111.82 | 5,282.72 | 74.05 | Zone 4 |
| J-854 | 3.88 | 5,111.71 | 5,282.72 | 74.1 | Zone 4 |
| H-57-PH19 | 0 | 5,111.52 | 5,282.72 | 74.18 | Zone 4 |
| J-734 | 0 | 5,110.99 | 5,282.72 | 74.41 | Zone 4 |
| J-433 | 1.72 | 5,110.90 | 5,282.71 | 74.45 | Zone 4 |
| J-195 | 0 | 5,110.77 | 5,282.71 | 74.5 | Zone 4 |
| J22-848 | 0 | 5,110.68 | 5,282.72 | 74.55 | Zone 4 |
| FH-919 | 5.17 | 5,110.63 | 5,282.73 | 74.57 | Zone 4 |
| J-681 | 0 | 5,110.40 | 5,282.73 | 74.67 | Zone 4 |
| H-72-PH19 | 0 | 5,110.13 | 5,282.72 | 74.78 | Zone 4 |
| J22-887 | 0 | 5,109.85 | 5,282.72 | 74.9 | Zone 4 |
| J-189 | 0 | 5,145.45 | 5,318.47 | 74.97 | Zone 1 |
| J22-1082 | 4.95 | 5,109.65 | 5,282.73 | 74.99 | Zone 4 |
| J22-1083 | 0 | 5,109.44 | 5,282.73 | 75.09 | Zone 4 |
| J22-1160 | 0 | 5,109.41 | 5,282.72 | 75.1 | Zone 4 |
| J-649 | 0 | 5,109.20 | 5,282.74 | 75.19 | Zone 4 |
| PH22-FH5 | 0 | 5,109.15 | 5,282.72 | 75.21 | Zone 4 |
| PH22-FH6 | 0 | 5,108.82 | 5,282.73 | 75.35 | Zone 4 |
| J22-1161 | 1.29 | 5,108.69 | 5,282.73 | 75.41 | Zone 4 |
| J-835 | 0 | 5,108.66 | 5,282.72 | 75.42 | Zone 4 |
| J-834 | 0 | 5,108.55 | 5,282.72 | 75.47 | Zone 4 |
| H-4-PH18 | 0 | 5,108.54 | 5,282.72 | 75.47 | Zone 4 |
| J-1179 | 0 | 5,108.50 | 5,282.72 | 75.49 | Zone 4 |
| H-62-PH19 | 0 | 5,108.36 | 5,282.72 | 75.55 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-571 | 0 | 5,108.10 | 5,282.74 | 75.67 | Zone 4 |
| J22-1163 | 1.29 | 5,108.04 | 5,282.73 | 75.69 | Zone 4 |
| J-731 | 0 | 5,108.03 | 5,282.72 | 75.7 | Zone 4 |
| J-286 | 13.57 | 5,107.77 | 5,282.72 | 75.8 | Zone 4 |
| PH22-FH7 | 0 | 5,107.71 | 5,282.73 | 75.84 | Zone 4 |
| J-190 | 0 | 5,142.64 | 5,317.88 | 75.93 | Zone 1 |
| J-847 | 0 | 5,107.15 | 5,282.72 | 76.08 | Zone 4 |
| J-642 | 0 | 5,107.02 | 5,282.74 | 76.14 | Zone 4 |
| J22-890 | 0.86 | 5,106.80 | 5,282.73 | 76.23 | Zone 4 |
| J22-1069 | 0 | 5,106.60 | 5,282.73 | 76.32 | Zone 4 |
| J-284 | 6.9 | 5,106.34 | 5,282.72 | 76.43 | Zone 4 |
| J-667 | 0 | 5,106.00 | 5,282.74 | 76.58 | Zone 4 |
| J-850 | 3.45 | 5,105.62 | 5,282.72 | 76.74 | Zone 4 |
| J-765 | 0 | 5,105.58 | 5,282.72 | 76.76 | Zone 4 |
| H-63-PH14 | 0 | 5,105.46 | 5,282.72 | 76.81 | Zone 4 |
| J-144 | 0 | 5,145.19 | 5,322.56 | 76.85 | Zone 3 |
| J-857 | 0 | 5,105.28 | 5,282.72 | 76.89 | Zone 4 |
| J-858 | 3.45 | 5,104.55 | 5,282.72 | 77.2 | Zone 4 |
| FH-929 | 0 | 5,104.35 | 5,282.73 | 77.29 | Zone 4 |
| J22-1070 | 0 | 5,104.17 | 5,282.73 | 77.37 | Zone 4 |
| J-23-1206 | 1.29 | 5,103.76 | 5,282.74 | 77.55 | Zone 4 |
| J-769 | 0 | 5,103.65 | 5,282.73 | 77.6 | Zone 4 |
| J-853 | 0 | 5,103.31 | 5,282.73 | 77.74 | Zone 4 |
| H-19-PH17 | 0 | 5,103.22 | 5,282.72 | 77.78 | Zone 4 |
| J-764 | 4.95 | 5,103.20 | 5,282.72 | 77.79 | Zone 4 |
| FH-920 | 0 | 5,103.13 | 5,282.74 | 77.82 | Zone 4 |
| J-203 | 4.31 | 5,103.04 | 5,282.71 | 77.85 | Zone 4 |
| J-23-1205 | 1.29 | 5,103.01 | 5,282.74 | 77.88 | Zone 4 |
| J-733 | 6.03 | 5,102.95 | 5,282.73 | 77.9 | Zone 4 |
| J-651 | 0 | 5,102.83 | 5,282.74 | 77.95 | Zone 4 |
| J-283 | 4.74 | 5,102.74 | 5,282.72 | 77.99 | Zone 4 |
| J-782 | 3.02 | 5,102.64 | 5,282.72 | 78.03 | Zone 4 |
| PH22-FH9 | 0 | 5,102.58 | 5,282.73 | 78.06 | Zone 4 |
| J22-1165 | 1.72 | 5,102.35 | 5,282.73 | 78.16 | Zone 4 |
| J-799 | 0 | 5,102.30 | 5,282.72 | 78.18 | Zone 4 |
| J22-1164 | 1.29 | 5,102.26 | 5,282.73 | 78.2 | Zone 4 |
| J22-1084 | 0 | 5,102.15 | 5,282.73 | 78.24 | Zone 4 |
| J-666 | 5.6 | 5,102.13 | 5,282.74 | 78.26 | Zone 4 |
| PH22-FH8 | 0 | 5,102.01 | 5,282.73 | 78.31 | Zone 4 |
| J-23-1203 | 2.15 | 5,101.82 | 5,282.74 | 78.39 | Zone 4 |
| J22-892 | 0.86 | 5,101.66 | 5,282.73 | 78.46 | Zone 4 |
| J-1071 | 0 | 5,101.47 | 5,282.73 | 78.54 | Zone 4 |
| J-768 | 0 | 5,101.09 | 5,282.73 | 78.7 | Zone 4 |
| J23-IRR | 0 | 5,101.05 | 5,282.74 | 78.73 | Zone 4 |
| J-683 | 5.6 | 5,100.73 | 5,282.73 | 78.86 | Zone 4 |
| J22-1085 | 0 | 5,100.66 | 5,282.74 | 78.89 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-432 | 1.72 | 5,100.59 | 5,282.71 | 78.91 | Zone 4 |
| J22-1166 | 0 | 5,100.41 | 5,282.74 | 79 | Zone 4 |
| PH22-FH1 | 0 | 5,100.33 | 5,282.74 | 79.04 | Zone 4 |
| H-18-PH1 | 0 | 5,100.15 | 5,282.73 | 79.11 | Zone 4 |
| J-204 | 4.31 | 5,099.81 | 5,282.70 | 79.25 | Zone 4 |
| H-16-PH1 | 0 | 5,099.69 | 5,282.73 | 79.31 | Zone 4 |
| J-780 | 5.17 | 5,099.49 | 5,282.73 | 79.4 | Zone 4 |
| J-763 | 0 | 5,099.48 | 5,282.73 | 79.4 | Zone 4 |
| ERTOWNC | 3.1 | 5,124.46 | 5,307.81 | 79.44 | Zone 1 |
| J-196 | 0 | 5,099.35 | 5,282.71 | 79.45 | Zone 4 |
| J-646 | 10.65 | 5,122.90 | 5,306.31 | 79.47 | Zone 1 |
| J22-1168 | 1.72 | 5,099.28 | 5,282.74 | 79.49 | Zone 4 |
| H-17-PH1 | 0 | 5,099.26 | 5,282.73 | 79.5 | Zone 4 |
| J-306 | 5.32 | 5,133.61 | 5,317.16 | 79.53 | Zone 1 |
| PH22-FH1 | 0 | 5,099.17 | 5,282.74 | 79.54 | Zone 4 |
| PH22-FH1 | 0 | 5,098.86 | 5,282.73 | 79.67 | Zone 4 |
| J22-1170 | 1.72 | 5,098.86 | 5,282.73 | 79.67 | Zone 4 |
| J-781 | 4.31 | 5,098.79 | 5,282.73 | 79.7 | Zone 4 |
| J-23-1204 | 2.15 | 5,098.75 | 5,282.74 | 79.72 | Zone 4 |
| LDG3-CCO | 2.88 | 5,098.71 | 5,282.76 | 79.75 | Zone 4 |
| J-281 | 3.45 | 5,098.63 | 5,282.72 | 79.77 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,282.73 | 79.77 | Zone 4 |
| J-5 | 5.32 | 5,133.16 | 5,317.27 | 79.77 | Zone 1 |
| J22-1086 | 0 | 5,098.57 | 5,282.76 | 79.81 | Zone 4 |
| J22-1171 | 1.72 | 5,098.51 | 5,282.73 | 79.82 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,282.73 | 79.82 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,282.73 | 79.88 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,282.73 | 79.9 | Zone 4 |
| PH22-FH1 | 0 | 5,098.28 | 5,282.73 | 79.92 | Zone 4 |
| J-704 | 4.95 | 5,098.03 | 5,282.76 | 80.05 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,282.73 | 80.08 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,282.75 | 80.11 | Zone 4 |
| J-653 | 6.66 | 5,121.04 | 5,306.26 | 80.26 | Zone 1 |
| J22-1169 | 2.15 | 5,097.42 | 5,282.73 | 80.3 | Zone 4 |
| H-15-PH1 | 0 | 5,097.37 | 5,282.73 | 80.32 | Zone 4 |
| PH22-FH1 | 0 | 5,097.31 | 5,282.73 | 80.34 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,282.76 | 80.38 | Zone 4 |
| PH22-FH1 | 0 | 5,097.23 | 5,282.73 | 80.38 | Zone 4 |
| J22-1172 | 3.88 | 5,097.21 | 5,282.73 | 80.39 | Zone 4 |
| J-484 | 4.74 | 5,097.17 | 5,282.77 | 80.42 | Zone 4 |
| J-705 | 0 | 5,097.12 | 5,282.76 | 80.44 | Zone 4 |
| J-767 | 4.95 | 5,097.07 | 5,282.73 | 80.45 | Zone 4 |
| J-778 | 6.46 | 5,096.86 | 5,282.73 | 80.54 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,322.62 | 80.61 | Zone 3 |
| J-671 | 4.95 | 5,096.69 | 5,282.74 | 80.61 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,282.76 | 80.63 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-898 | 0 | 5,096.50 | 5,282.73 | 80.7 | Zone 4 |
| J-447 | 5.32 | 5,118.19 | 5,304.61 | 80.78 | Zone 1 |
| J-714 | 0 | 5,096.31 | 5,282.74 | 80.78 | Zone 4 |
| J-205 | 4.31 | 5,096.27 | 5,282.70 | 80.78 | Zone 4 |
| H-13-PH1 | 0 | 5,096.07 | 5,282.73 | 80.88 | Zone 4 |
| J-485 | 10.12 | 5,095.99 | 5,282.77 | 80.93 | Zone 4 |
| J-23-1207 | 2.15 | 5,095.92 | 5,282.77 | 80.96 | Zone 4 |
| J-645 | 0 | 5,119.46 | 5,306.38 | 80.99 | Zone 1 |
| H-11-PH1 | 0 | 5,095.76 | 5,282.74 | 81.02 | Zone 4 |
| J-325 | 7.53 | 5,095.74 | 5,282.73 | 81.02 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,282.73 | 81.02 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,282.73 | 81.03 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,282.75 | 81.11 | Zone 4 |
| J-776 | 4.31 | 5,095.41 | 5,282.73 | 81.17 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,282.73 | 81.18 | Zone 4 |
| H-14-PH1 | 0 | 5,095.35 | 5,282.73 | 81.19 | Zone 4 |
| J22-874 | 0.86 | 5,095.38 | 5,282.78 | 81.2 | Zone 4 |
| J-248 | 6.03 | 5,135.17 | 5,322.62 | 81.22 | Zone 3 |
| J-670 | 0 | 5,095.24 | 5,282.75 | 81.25 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,282.76 | 81.25 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.78 | 81.25 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,282.78 | 81.29 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.74 | 81.34 | Zone 4 |
| J-1260 | 0 | 5,094.97 | 5,282.73 | 81.36 | Zone 4 |
| J22-1087 | 7.83 | 5,094.99 | 5,282.78 | 81.37 | Zone 4 |
| J-431 | 2.15 | 5,094.71 | 5,282.71 | 81.46 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,282.74 | 81.46 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,322.62 | 81.47 | Zone 3 |
| J-206 | 4.31 | 5,094.63 | 5,282.70 | 81.49 | Zone 4 |
| J-771 | 8.19 | 5,094.49 | 5,282.74 | 81.57 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,282.70 | 81.57 | Zone 4 |
| J-1272 | 2.59 | 5,094.45 | 5,282.73 | 81.58 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.73 | 81.59 | Zone 4 |
| J-23-1228 | 3.45 | 5,094.40 | 5,282.76 | 81.62 | Zone 4 |
| J-660 | 3.45 | 5,094.39 | 5,282.75 | 81.62 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.76 | 81.66 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,282.74 | 81.69 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,282.71 | 81.72 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,282.77 | 81.83 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,282.74 | 81.92 | Zone 4 |
| H-10-PH1 | 0 | 5,093.60 | 5,282.74 | 81.95 | Zone 4 |
| J-657 | 4.31 | 5,093.38 | 5,282.76 | 82.06 | Zone 4 |
| J-775 | 4.31 | 5,093.32 | 5,282.74 | 82.07 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,282.76 | 82.1 | Zone 4 |
| J-23-1212 | 1.72 | 5,093.24 | 5,282.82 | 82.15 | Zone 4 |
| J-662 | 4.31 | 5,092.99 | 5,282.77 | 82.23 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-1088 | 2.88 | 5,092.98 | 5,282.82 | 82.26 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,282.74 | 82.3 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.82 | 82.3 | Zone 4 |
| J22-880 | 1.29 | 5,092.85 | 5,282.82 | 82.32 | Zone 4 |
| PH22-FH1 | 0 | 5,092.73 | 5,282.82 | 82.37 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.74 | 82.41 | Zone 4 |
| J-207 | 4.31 | 5,092.46 | 5,282.70 | 82.43 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.78 | 82.46 | Zone 4 |
| 2-IRR-11 | 0 | 5,092.39 | 5,282.83 | 82.52 | Zone 4 |
| J-658 | 6.46 | 5,092.30 | 5,282.76 | 82.52 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,282.70 | 82.6 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.75 | 82.62 | Zone 4 |
| W-VILLAGE | 4.95 | 5,092.08 | 5,282.76 | 82.62 | Zone 4 |
| J-23-1208 | 3.02 | 5,092.02 | 5,282.75 | 82.64 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,282.75 | 82.7 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,282.75 | 82.71 | Zone 4 |
| J-655 | 4.31 | 5,091.87 | 5,282.78 | 82.72 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,283.18 | 82.73 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,282.70 | 82.73 | Zone 4 |
| J-328 | 0 | 5,113.60 | 5,304.61 | 82.76 | Zone 1 |
| FH-918 | 0 | 5,091.71 | 5,282.76 | 82.78 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,282.76 | 82.81 | Zone 4 |
| J-466 | 6.46 | 5,091.59 | 5,282.77 | 82.84 | Zone 4 |
| J-644 | 11.31 | 5,115.23 | 5,306.45 | 82.86 | Zone 1 |
| J-656 | 0 | 5,091.48 | 5,282.76 | 82.88 | Zone 4 |
| J-23-1216 | 1.29 | 5,091.71 | 5,283.03 | 82.9 | Zone 4 |
| J-198 | 5.6 | 5,091.35 | 5,282.71 | 82.92 | Zone 4 |
| J-454 | 5.17 | 5,091.37 | 5,282.79 | 82.94 | Zone 4 |
| J-664 | 3.88 | 5,091.23 | 5,282.79 | 83 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,282.76 | 83.01 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,283.03 | 83.03 | Zone 4 |
| J-387 | 0 | 5,125.58 | 5,317.22 | 83.04 | Zone 1 |
| J-1278 | 0 | 5,091.08 | 5,282.76 | 83.05 | Zone 4 |
| J-1266 | 1.29 | 5,091.08 | 5,282.76 | 83.06 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,283.03 | 83.08 | Zone 4 |
| J-23-1215 | 0.86 | 5,091.25 | 5,283.01 | 83.09 | Zone 4 |
| J-1257 | 5.17 | 5,090.93 | 5,282.74 | 83.11 | Zone 4 |
| J-23-1219 | 0.86 | 5,091.11 | 5,283.03 | 83.16 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,282.76 | 83.17 | Zone 4 |
| -1279-IRI | 4.95 | 5,090.60 | 5,282.74 | 83.25 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,283.13 | 83.28 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.77 | 83.32 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,283.06 | 83.33 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,283.10 | 83.36 | Zone 4 |
| J-1259 | 2.59 | 5,090.30 | 5,282.74 | 83.38 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.88 | 83.39 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-1255 | 3.88 | 5,090.25 | 5,282.75 | 83.41 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.87 | 83.45 | Zone 4 |
| J-453 | 7.33 | 5,090.15 | 5,282.80 | 83.47 | Zone 4 |
| J-23-1213 | 2.59 | 5,090.32 | 5,282.98 | 83.48 | Zone 4 |
| J-23-1214 | 0.43 | 5,090.30 | 5,282.99 | 83.49 | Zone 4 |
| J22-882 | 1.72 | 5,090.19 | 5,282.89 | 83.5 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.79 | 83.52 | Zone 4 |
| H22-FH1 | 0 | 5,090.10 | 5,282.88 | 83.53 | Zone 4 |
| J-661 | 3.88 | 5,089.72 | 5,282.77 | 83.65 | Zone 4 |
| J-199 | 6.03 | 5,089.28 | 5,282.71 | 83.81 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.78 | 83.84 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.79 | 83.96 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,282.81 | 84.05 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,282.79 | 84.09 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.80 | 84.11 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.86 | 84.33 | Zone 4 |
| J-343 | 5.99 | 5,108.61 | 5,303.64 | 84.51 | Zone 1 |
| J-1256 | 2.59 | 5,087.68 | 5,282.75 | 84.52 | Zone 4 |
| J-324 | 2.15 | 5,087.57 | 5,282.74 | 84.57 | Zone 4 |
| J-159 | 7.32 | 5,108.44 | 5,303.63 | 84.58 | Zone 1 |
| J-449 | 0 | 5,087.47 | 5,282.83 | 84.65 | Zone 4 |
| J-200 | 6.03 | 5,087.30 | 5,282.70 | 84.67 | Zone 4 |
| LEMSCH | 9.89 | 5,087.43 | 5,282.87 | 84.68 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,282.87 | 84.73 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,282.87 | 84.75 | Zone 4 |
| 17CSELEN | 0 | 5,087.23 | 5,282.87 | 84.77 | Zone 4 |
| J-440 | 2.59 | 5,086.88 | 5,282.72 | 84.86 | Zone 4 |
| J-191 | 8.42 | 5,121.58 | 5,317.55 | 84.92 | Zone 1 |
| J-478 | 3.45 | 5,086.54 | 5,282.86 | 85.06 | Zone 4 |
| J-438 | 5.6 | 5,086.25 | 5,282.72 | 85.13 | Zone 4 |
| J-474 | 3.45 | 5,086.26 | 5,282.85 | 85.18 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,317.15 | 85.26 | Zone 1 |
| J-460 | 5.6 | 5,086.01 | 5,282.88 | 85.3 | Zone 4 |
| J-1274 | 0 | 5,085.67 | 5,282.74 | 85.39 | Zone 4 |
| J-201 | 6.03 | 5,085.59 | 5,282.70 | 85.41 | Zone 4 |
| J-407 | 2.15 | 5,085.64 | 5,282.89 | 85.47 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.88 | 85.56 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,282.88 | 85.67 | Zone 4 |
| J22-902 | 4.95 | 5,085.12 | 5,282.88 | 85.69 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,282.72 | 85.73 | Zone 4 |
| J-475 | 3.88 | 5,084.82 | 5,282.87 | 85.82 | Zone 4 |
| J-202 | 5.17 | 5,084.62 | 5,282.70 | 85.83 | Zone 4 |
| J-408 | 5.17 | 5,084.71 | 5,282.89 | 85.87 | Zone 4 |
| J-280 | 3.45 | 5,084.28 | 5,282.72 | 85.98 | Zone 4 |
| J-334 | 0 | 5,106.04 | 5,304.61 | 86.04 | Zone 1 |
| J22-1091 | 0 | 5,084.24 | 5,282.88 | 86.07 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| PH22-FH1 | 0 | 5,084.13 | 5,282.88 | 86.12 | Zone 4 |
| J-285 | 5.17 | 5,083.77 | 5,282.72 | 86.2 | Zone 4 |
| J-476 | 3.45 | 5,083.43 | 5,282.88 | 86.42 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.89 | 86.42 | Zone 4 |
| J-409 | 2.59 | 5,083.24 | 5,282.89 | 86.51 | Zone 4 |
| J-323 | 7.96 | 5,083.06 | 5,282.75 | 86.53 | Zone 4 |
| J-282 | 4.74 | 5,082.97 | 5,282.72 | 86.55 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,282.72 | 86.73 | Zone 4 |
| J-208 | 4.31 | 5,082.50 | 5,282.71 | 86.75 | Zone 4 |
| J-471 | 6.46 | 5,082.54 | 5,282.79 | 86.77 | Zone 4 |
| J-273 | 3.02 | 5,082.46 | 5,282.79 | 86.8 | Zone 4 |
| J-160 | 5.99 | 5,103.31 | 5,303.65 | 86.81 | Zone 1 |
| J-461 | 6.46 | 5,082.44 | 5,282.88 | 86.85 | Zone 4 |
| J-333 | 6.66 | 5,104.15 | 5,304.61 | 86.86 | Zone 1 |
| J-473 | 5.17 | 5,082.14 | 5,282.78 | 86.94 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,282.72 | 86.97 | Zone 4 |
| J-477 | 3.45 | 5,082.15 | 5,282.88 | 86.98 | Zone 4 |
| J-459 | 3.88 | 5,081.68 | 5,282.88 | 87.18 | Zone 4 |
| J-329 | 5.32 | 5,103.30 | 5,304.61 | 87.22 | Zone 1 |
| J-388 | 0 | 5,115.58 | 5,317.08 | 87.31 | Zone 1 |
| J-410 | 3.02 | 5,081.37 | 5,282.90 | 87.32 | Zone 4 |
| J-215 | 9.26 | 5,081.17 | 5,282.71 | 87.32 | Zone 4 |
| J-249 | 4.74 | 5,120.99 | 5,322.59 | 87.35 | Zone 3 |
| J-424 | 2.88 | 5,081.15 | 5,282.88 | 87.41 | Zone 4 |
| J-405 | 3.45 | 5,081.06 | 5,282.89 | 87.45 | Zone 4 |
| J-271 | 4.74 | 5,080.96 | 5,282.80 | 87.46 | Zone 4 |
| J-320 | 4.95 | 5,080.78 | 5,282.78 | 87.53 | Zone 4 |
| J-586 | 9.89 | 5,080.67 | 5,282.72 | 87.55 | Zone 4 |
| J-462 | 7.76 | 5,080.60 | 5,282.89 | 87.65 | Zone 4 |
| J-272 | 3.02 | 5,080.44 | 5,282.79 | 87.68 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,307.00 | 87.69 | Zone 1 |
| J-417 | 5.17 | 5,080.47 | 5,282.89 | 87.71 | Zone 4 |
| J-214 | 4.31 | 5,080.16 | 5,282.71 | 87.76 | Zone 4 |
| J-648 | 3.33 | 5,103.71 | 5,306.26 | 87.76 | Zone 1 |
| J-321 | 2.59 | 5,080.22 | 5,282.78 | 87.77 | Zone 4 |
| J-270 | 4.74 | 5,080.13 | 5,282.80 | 87.81 | Zone 4 |
| J-25 | 0 | 5,104.44 | 5,307.16 | 87.84 | Zone 1 |
| J-146 | 0 | 5,119.77 | 5,322.59 | 87.88 | Zone 3 |
| J-472 | 4.74 | 5,079.93 | 5,282.79 | 87.9 | Zone 4 |
| J-411 | 3.02 | 5,079.96 | 5,282.90 | 87.93 | Zone 4 |
| J-404 | 3.45 | 5,079.68 | 5,282.90 | 88.05 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,282.89 | 88.13 | Zone 4 |
| J-603 | 6.66 | 5,102.70 | 5,306.23 | 88.19 | Zone 1 |
| J-458 | 4.31 | 5,079.24 | 5,282.88 | 88.24 | Zone 4 |
| J-27 | 0 | 5,101.81 | 5,305.65 | 88.32 | Zone 1 |
| J-470 | 0 | 5,078.94 | 5,282.80 | 88.33 | Zone 4 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-277 | 5.17 | 5,078.88 | 5,282.79 | 88.35 | Zone 4 |
| J-239 | 4.31 | 5,078.79 | 5,282.71 | 88.36 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.89 | 88.38 | Zone 4 |
| J-418 | 4.74 | 5,078.88 | 5,282.90 | 88.4 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,282.77 | 88.46 | Zone 4 |
| J-412 | 3.02 | 5,078.68 | 5,282.91 | 88.49 | Zone 4 |
| J-403 | 3.02 | 5,078.53 | 5,282.90 | 88.55 | Zone 4 |
| J-279 | 3.88 | 5,078.05 | 5,282.79 | 88.71 | Zone 4 |
| J-587 | 4.95 | 5,078.13 | 5,282.89 | 88.72 | Zone 4 |
| J-269 | 4.31 | 5,077.78 | 5,282.78 | 88.83 | Zone 4 |
| J-212 | 3.88 | 5,077.48 | 5,282.71 | 88.92 | Zone 4 |
| J-426 | 4.74 | 5,077.65 | 5,282.89 | 88.93 | Zone 4 |
| J-446 | 5.32 | 5,099.26 | 5,304.61 | 88.98 | Zone 1 |
| J-647 | 6.66 | 5,100.91 | 5,306.26 | 88.98 | Zone 1 |
| J-264 | 4.31 | 5,077.35 | 5,282.73 | 88.99 | Zone 4 |
| J-413 | 3.02 | 5,077.49 | 5,282.92 | 89.02 | Zone 4 |
| J-425 | 1.72 | 5,077.39 | 5,282.89 | 89.04 | Zone 4 |
| J-402 | 3.45 | 5,077.13 | 5,282.91 | 89.16 | Zone 4 |
| J-231 | 4.31 | 5,076.71 | 5,282.73 | 89.27 | Zone 4 |
| J-276 | 6.03 | 5,076.67 | 5,282.81 | 89.32 | Zone 4 |
| J-230 | 4.31 | 5,076.30 | 5,282.72 | 89.45 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.91 | 89.45 | Zone 4 |
| J-332 | 0 | 5,097.85 | 5,304.61 | 89.59 | Zone 1 |
| J-226 | 4.31 | 5,075.95 | 5,282.72 | 89.59 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,282.95 | 89.6 | Zone 4 |
| J-340 | 3.99 | 5,096.75 | 5,303.66 | 89.66 | Zone 1 |
| J-297 | 0 | 5,076.00 | 5,282.92 | 89.66 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.79 | 89.71 | Zone 4 |
| J-401 | 3.88 | 5,075.73 | 5,282.92 | 89.78 | Zone 4 |
| J-295 | 5.6 | 5,075.72 | 5,282.92 | 89.78 | Zone 4 |
| J-278 | 5.17 | 5,075.57 | 5,282.80 | 89.8 | Zone 4 |
| J-436 | 5.6 | 5,075.48 | 5,282.77 | 89.82 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,282.90 | 89.85 | Zone 4 |
| J-296 | 4.74 | 5,075.50 | 5,282.92 | 89.87 | Zone 4 |
| J-315 | 6.03 | 5,075.27 | 5,282.93 | 89.98 | Zone 4 |
| J-228 | 4.31 | 5,075.04 | 5,282.72 | 89.99 | Zone 4 |
| J-595 | 2.66 | 5,099.13 | 5,306.89 | 90.02 | Zone 1 |
| J-267 | 0 | 5,074.88 | 5,282.81 | 90.1 | Zone 4 |
| J-330 | 4.66 | 5,096.35 | 5,304.61 | 90.24 | Zone 1 |
| J-236 | 0 | 5,074.42 | 5,282.71 | 90.25 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,282.93 | 90.27 | Zone 4 |
| J-400 | 3.45 | 5,074.49 | 5,282.95 | 90.33 | Zone 4 |
| J-294 | 3.88 | 5,074.33 | 5,282.92 | 90.38 | Zone 4 |
| J-254 | 3.02 | 5,074.06 | 5,282.71 | 90.41 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,282.74 | 90.42 | Zone 4 |
| J-316 | 10.12 | 5,074.16 | 5,282.93 | 90.46 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-303 | 2.15 | 5,074.07 | 5,282.88 | 90.48 | Zone 4 |
| J-312 | 6.03 | 5,073.95 | 5,282.95 | 90.56 | Zone 4 |
| J-445 | 0 | 5,095.13 | 5,304.61 | 90.77 | Zone 1 |
| J-435 | 0 | 5,073.19 | 5,282.73 | 90.79 | Zone 4 |
| J-308 | 6.9 | 5,073.29 | 5,282.98 | 90.86 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.85 | 90.88 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,282.95 | 90.9 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,282.77 | 90.93 | Zone 4 |
| J-233 | 4.95 | 5,072.79 | 5,282.73 | 90.97 | Zone 4 |
| J-266 | 3.88 | 5,072.93 | 5,282.88 | 90.97 | Zone 4 |
| J-260 | 2.59 | 5,072.80 | 5,282.81 | 91 | Zone 4 |
| J-606 | 9.32 | 5,096.31 | 5,306.39 | 91.03 | Zone 1 |
| J-229 | 0 | 5,072.55 | 5,282.73 | 91.07 | Zone 4 |
| J-313 | 5.17 | 5,072.76 | 5,282.95 | 91.07 | Zone 4 |
| J-166 | 5.32 | 5,093.26 | 5,303.66 | 91.17 | Zone 1 |
| J-225 | 0 | 5,072.30 | 5,282.72 | 91.17 | Zone 4 |
| J-310 | 6.03 | 5,072.34 | 5,282.98 | 91.27 | Zone 4 |
| J-309 | 4.31 | 5,072.32 | 5,282.98 | 91.28 | Zone 4 |
| J-259 | 2.59 | 5,072.01 | 5,282.85 | 91.36 | Zone 4 |
| J-592 | 8.65 | 5,095.57 | 5,306.55 | 91.42 | Zone 1 |
| J-227 | 0 | 5,071.72 | 5,282.72 | 91.43 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,322.55 | 91.55 | Zone 3 |
| J-300 | 3.45 | 5,071.64 | 5,282.98 | 91.57 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,282.72 | 91.66 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,282.98 | 91.66 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,282.85 | 91.67 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.81 | 91.68 | Zone 4 |
| J-263 | 9.55 | 5,070.85 | 5,282.76 | 91.82 | Zone 4 |
| J-307 | 6.03 | 5,070.23 | 5,283.00 | 92.19 | Zone 4 |
| J-319 | 4.95 | 5,070.24 | 5,283.05 | 92.21 | Zone 4 |
| J-261 | 2.15 | 5,069.91 | 5,282.81 | 92.25 | Zone 4 |
| J-302 | 4.31 | 5,069.92 | 5,283.03 | 92.34 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,283.04 | 92.41 | Zone 4 |
| J-336 | 5.32 | 5,090.75 | 5,304.03 | 92.42 | Zone 1 |
| J-23 | 3.99 | 5,102.29 | 5,315.99 | 92.59 | Zone 1 |
| J-137 | 4.74 | 5,108.67 | 5,322.52 | 92.66 | Zone 3 |
| J-251 | 8.62 | 5,069.14 | 5,283.02 | 92.67 | Zone 4 |
| J-219 | 3.88 | 5,068.69 | 5,282.72 | 92.74 | Zone 4 |
| J-252 | 4.95 | 5,069.06 | 5,283.15 | 92.77 | Zone 4 |
| J-250 | 4.74 | 5,067.75 | 5,282.94 | 93.24 | Zone 4 |
| J-327 | 7.32 | 5,089.27 | 5,304.61 | 93.3 | Zone 1 |
| J-223 | 4.31 | 5,067.34 | 5,282.72 | 93.32 | Zone 4 |
| J-247 | 10.77 | 5,067.68 | 5,283.08 | 93.33 | Zone 4 |
| J-238 | 4.31 | 5,067.17 | 5,282.72 | 93.4 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,304.03 | 93.81 | Zone 1 |
| J-220 | 4.31 | 5,066.08 | 5,282.72 | 93.87 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-221 | 4.31 | 5,066.06 | 5,282.72 | 93.88 | Zone 4 |
| J-590 | 5.99 | 5,088.31 | 5,306.47 | 94.53 | Zone 1 |
| J-339 | 4.66 | 5,085.67 | 5,303.85 | 94.54 | Zone 1 |
| J-604 | 3.99 | 5,086.47 | 5,306.29 | 95.25 | Zone 1 |
| J-597 | 7.99 | 5,085.96 | 5,306.23 | 95.44 | Zone 1 |
| J-161 | 5.99 | 5,082.45 | 5,303.68 | 95.86 | Zone 1 |
| J-342 | 0 | 5,082.46 | 5,303.93 | 95.96 | Zone 1 |
| J-136 | 12.5 | 5,100.47 | 5,322.30 | 96.12 | Zone 3 |
| J-608 | 0 | 5,064.05 | 5,286.24 | 96.27 | Zone 4 |
| J-427 | 6.66 | 5,082.41 | 5,304.61 | 96.28 | Zone 1 |
| J-6 | 5.32 | 5,094.60 | 5,317.15 | 96.43 | Zone 1 |
| J-589 | 7.99 | 5,082.17 | 5,306.47 | 97.19 | Zone 1 |
| J-135 | 14.65 | 5,097.88 | 5,322.39 | 97.28 | Zone 3 |
| J-331 | 5.99 | 5,079.08 | 5,304.61 | 97.72 | Zone 1 |
| J-337 | 9.98 | 5,077.64 | 5,304.17 | 98.16 | Zone 1 |
| J-594 | 0 | 5,079.25 | 5,306.18 | 98.33 | Zone 1 |
| J-162 | 6.66 | 5,074.91 | 5,303.62 | 99.1 | Zone 1 |
| J-588 | 5.99 | 5,077.31 | 5,306.47 | 99.3 | Zone 1 |
| J-289 | 5.32 | 5,087.80 | 5,317.07 | 99.34 | Zone 1 |
| J-385 | 5.31 | 5,076.49 | 5,306.30 | 99.58 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,306.43 | 99.59 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,304.76 | 100.37 | Zone 1 |
| J-150 | 5.99 | 5,066.84 | 5,302.96 | 102.31 | Zone 1 |
| J-151 | 3.99 | 5,065.12 | 5,302.96 | 103.05 | Zone 1 |
| J-305 | 5.32 | 5,077.07 | 5,316.65 | 103.81 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,303.53 | 105.28 | Zone 1 |
| J-158 | 13.31 | 5,060.32 | 5,303.54 | 105.39 | Zone 1 |
| J-164 | 9.32 | 5,059.45 | 5,303.12 | 105.58 | Zone 1 |
| J-152 | 6.66 | 5,058.73 | 5,302.96 | 105.82 | Zone 1 |
| J-304 | 5.32 | 5,072.38 | 5,316.65 | 105.84 | Zone 1 |
| J-163 | 8.65 | 5,058.71 | 5,303.24 | 105.96 | Zone 1 |
| J-1230 | 2.66 | 5,058.21 | 5,303.49 | 106.28 | Zone 1 |
| J-165 | 13.98 | 5,057.28 | 5,303.37 | 106.63 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,290.94 | 106.67 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.85 | 106.69 | Zone 4 |
| J-153 | 5.99 | 5,056.40 | 5,302.96 | 106.83 | Zone 1 |
| J-1231 | 5.32 | 5,055.87 | 5,303.46 | 107.28 | Zone 1 |
| J-1322 | 5.32 | 5,055.28 | 5,303.32 | 107.48 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,303.32 | 107.62 | Zone 1 |
| J-154 | 9.3 | 5,053.62 | 5,302.96 | 108.04 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,291.60 | 108.15 | Zone 4 |
| J-155 | 5.32 | 5,051.81 | 5,302.96 | 108.82 | Zone 1 |
| J-828 | 0 | 5,041.01 | 5,292.37 | 108.91 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,292.63 | 109.04 | Zone 4 |
| J-36 | 0 | 5,051.03 | 5,302.93 | 109.15 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,302.72 | 109.23 | Zone 1 |

GBWC-CSD Preferred MDD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-611 | 4.66 | 5,049.06 | 5,303.27 | 110.15 | Zone 1 |
| J-1233 | 6.66 | 5,049.11 | 5,303.36 | 110.17 | Zone 1 |
| J-1232 | 5.32 | 5,048.93 | 5,303.41 | 110.26 | Zone 1 |
| J-612 | 7.09 | 5,047.26 | 5,303.27 | 110.93 | Zone 1 |
| J-1236 | 2.66 | 5,046.50 | 5,303.41 | 111.32 | Zone 1 |
| J-48 | 9.98 | 5,042.96 | 5,304.67 | 113.4 | Zone 1 |
| J-49 | 9.98 | 5,042.76 | 5,304.56 | 113.44 | Zone 1 |
| J-47 | 7.99 | 5,043.03 | 5,304.86 | 113.45 | Zone 1 |
| J-8 | 5.32 | 5,054.92 | 5,317.06 | 113.59 | Zone 1 |
| J-10 | 5.32 | 5,052.43 | 5,315.75 | 114.1 | Zone 1 |
| J-35 | 7.32 | 5,040.53 | 5,305.41 | 114.77 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,306.21 | 114.85 | Zone 1 |
| J-1252IRP | 8.4 | 5,040.67 | 5,306.15 | 115.03 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,306.21 | 115.22 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,306.21 | 115.29 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,306.21 | 115.45 | Zone 1 |
| J-9 | 5.32 | 5,049.50 | 5,316.21 | 115.57 | Zone 1 |
| J-13 | 5.31 | 5,039.32 | 5,306.21 | 115.65 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,309.52 | 117.73 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,313.23 | 120.8 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.74 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.6 | Zone 3 |
| J-33 | 0 | 5,085 | 5,175 | 38.79 | Zone 2 |
| J-127 | 13.95 | 5,087 | 5,178 | 39.29 | Zone 2 |
| J-742 | 0 | 5,189 | 5,281 | 39.85 | Zone 4 |
| J-760 | 0 | 5,189 | 5,281 | 39.92 | Zone 4 |
| J-241 | 0 | 5,189 | 5,281 | 39.96 | Zone 4 |
| J-1329 | 13.72 | 5,083 | 5,176 | 40.03 | Zone 2 |
| H-5-PH18 | 0 | 5,189 | 5,281 | 40.1 | Zone 4 |
| J-743 | 8.3 | 5,188 | 5,281 | 40.28 | Zone 4 |
| J-1308 | 6.97 | 5,082 | 5,175 | 40.31 | Zone 2 |
| J-1304 | 6.97 | 5,082 | 5,175 | 40.32 | Zone 2 |
| H-9-PH19 | 0 | 5,188 | 5,281 | 40.55 | Zone 4 |
| J-79 | 37.2 | 5,083 | 5,177 | 40.71 | Zone 2 |
| J-759 | 0 | 5,187 | 5,281 | 40.73 | Zone 4 |
| J-87 | 11.16 | 5,083 | 5,177 | 40.88 | Zone 2 |
| J-77 | 12.09 | 5,082 | 5,177 | 41.08 | Zone 2 |
| J-747 | 6.79 | 5,186 | 5,281 | 41.29 | Zone 4 |
| J-128 | 15.81 | 5,082 | 5,177 | 41.51 | Zone 2 |
| J-78 | 0 | 5,081 | 5,177 | 41.57 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,281 | 41.68 | Zone 4 |
| J-129 | 0 | 5,081 | 5,177 | 41.69 | Zone 2 |
| J-75 | 7.44 | 5,081 | 5,177 | 41.84 | Zone 2 |
| J-749 | 0 | 5,185 | 5,281 | 41.86 | Zone 4 |
| H-7-PH19 | 0 | 5,184 | 5,281 | 42.09 | Zone 4 |
| J-126 | 14.88 | 5,080 | 5,177 | 42.13 | Zone 2 |
| J-746 | 0 | 5,184 | 5,281 | 42.24 | Zone 4 |
| J-65 | 10.23 | 5,080 | 5,177 | 42.27 | Zone 2 |
| J-1309 | 6.97 | 5,078 | 5,175 | 42.35 | Zone 2 |
| J-80 | 0 | 5,079 | 5,177 | 42.37 | Zone 2 |
| J-1328 | 13.72 | 5,077 | 5,175 | 42.45 | Zone 2 |
| J-88 | 13.02 | 5,079 | 5,177 | 42.51 | Zone 2 |
| J-751 | 6.03 | 5,183 | 5,281 | 42.56 | Zone 4 |
| J-1338 | 13.72 | 5,078 | 5,176 | 42.59 | Zone 2 |
| J-125 | 0 | 5,078 | 5,177 | 42.73 | Zone 2 |
| J-64 | 10.23 | 5,078 | 5,177 | 42.74 | Zone 2 |
| J-1325 | 12.79 | 5,076 | 5,175 | 43.11 | Zone 2 |
| J-83 | 11.16 | 5,077 | 5,177 | 43.17 | Zone 2 |
| J-1310 | 6.97 | 5,076 | 5,175 | 43.22 | Zone 2 |
| J-130 | 13.95 | 5,077 | 5,177 | 43.27 | Zone 2 |
| J-1307 | 6.97 | 5,075 | 5,175 | 43.34 | Zone 2 |
| J-1306 | 6.97 | 5,075 | 5,175 | 43.34 | Zone 2 |
| J-1305 | 6.97 | 5,075 | 5,175 | 43.34 | Zone 2 |
| J-1311 | 6.97 | 5,075 | 5,175 | 43.34 | Zone 2 |
| J-1312 | 6.97 | 5,075 | 5,175 | 43.35 | Zone 2 |
| J-1315 | 6.97 | 5,074 | 5,175 | 43.79 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-82 | 0 | 5,076 | 5,177 | 43.8 | Zone 2 |
| J-240 | 0 | 5,076 | 5,177 | 43.91 | Zone 2 |
| J-1326 | 12.79 | 5,074 | 5,175 | 43.97 | Zone 2 |
| J-1336 | 13.72 | 5,074 | 5,175 | 44.12 | Zone 2 |
| J-133 | 18.6 | 5,075 | 5,177 | 44.14 | Zone 2 |
| J-76 | 4.65 | 5,075 | 5,177 | 44.4 | Zone 2 |
| J-480 | 0 | 5,179 | 5,281 | 44.4 | Zone 4 |
| J-84 | 13.02 | 5,074 | 5,177 | 44.51 | Zone 2 |
| J-1314 | 13.72 | 5,073 | 5,175 | 44.55 | Zone 2 |
| J-1315-2 | 0 | 5,073 | 5,175 | 44.55 | Zone 2 |
| J-1314-1 | 13.72 | 5,073 | 5,175 | 44.56 | Zone 2 |
| J-1324 | 12.79 | 5,072 | 5,175 | 44.62 | Zone 2 |
| J-89 | 0 | 5,074 | 5,177 | 44.66 | Zone 2 |
| J-132 | 0 | 5,074 | 5,177 | 44.88 | Zone 2 |
| J-1315-1 | 13.72 | 5,072 | 5,176 | 44.94 | Zone 2 |
| J-1339 | 13.72 | 5,072 | 5,176 | 45.08 | Zone 2 |
| J-397 | 9.05 | 5,177 | 5,281 | 45.11 | Zone 4 |
| J-1327 | 12.79 | 5,071 | 5,175 | 45.16 | Zone 2 |
| J-66 | 13.02 | 5,073 | 5,177 | 45.17 | Zone 2 |
| SELEMSC | 9.29 | 5,073 | 5,177 | 45.26 | Zone 2 |
| J-131 | 18.6 | 5,073 | 5,177 | 45.27 | Zone 2 |
| J-81 | 18.6 | 5,073 | 5,177 | 45.29 | Zone 2 |
| J-396 | 10.56 | 5,177 | 5,281 | 45.32 | Zone 4 |
| J-90 | 11.16 | 5,072 | 5,177 | 45.35 | Zone 2 |
| J-134 | 0 | 5,072 | 5,177 | 45.43 | Zone 2 |
| H-6-PH19 | 0 | 5,176 | 5,281 | 45.48 | Zone 4 |
| J-1299 | 13.72 | 5,071 | 5,176 | 45.5 | Zone 2 |
| J-98 | 0 | 5,072 | 5,177 | 45.62 | Zone 2 |
| J-93 | 0 | 5,072 | 5,177 | 45.66 | Zone 2 |
| J-85 | 12.09 | 5,072 | 5,177 | 45.72 | Zone 2 |
| J-124 | 0 | 5,072 | 5,177 | 45.8 | Zone 2 |
| J-91 | 0 | 5,071 | 5,177 | 45.81 | Zone 2 |
| J-753 | 7.54 | 5,175 | 5,281 | 45.86 | Zone 4 |
| J-1302 | 6.97 | 5,070 | 5,176 | 46.04 | Zone 2 |
| J-1303 | 6.97 | 5,070 | 5,176 | 46.1 | Zone 2 |
| J-1301 | 6.97 | 5,070 | 5,176 | 46.14 | Zone 2 |
| J-44 | 17.67 | 5,071 | 5,177 | 46.18 | Zone 2 |
| J-355 | 0 | 5,071 | 5,177 | 46.19 | Zone 2 |
| J-1 | 0 | 5,206 | 5,313 | 46.19 | Zone 1 |
| J-1316 | 0 | 5,069 | 5,176 | 46.31 | Zone 2 |
| J-92 | 13.95 | 5,070 | 5,177 | 46.31 | Zone 2 |
| J-99 | 0 | 5,070 | 5,177 | 46.42 | Zone 2 |
| PH19IRR | 0 | 5,174 | 5,281 | 46.67 | Zone 4 |
| J-398 | 8.66 | 5,173 | 5,281 | 46.71 | Zone 4 |
| J-120 | 18.6 | 5,069 | 5,177 | 46.72 | Zone 2 |
| H-5-PH19 | 0 | 5,173 | 5,281 | 46.74 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-40 | 17.67 | 5,069 | 5,177 | 46.79 | Zone 2 |
| J-45 | 14.88 | 5,069 | 5,177 | 46.84 | Zone 2 |
| J-752 | 7.54 | 5,173 | 5,281 | 47 | Zone 4 |
| J-2 | 0 | 5,202 | 5,311 | 47.05 | Zone 1 |
| J-1298 | 0 | 5,068 | 5,177 | 47.17 | Zone 2 |
| J-115 | 12.09 | 5,068 | 5,177 | 47.23 | Zone 2 |
| J-95 | 17.67 | 5,068 | 5,177 | 47.36 | Zone 2 |
| J-86 | 0 | 5,068 | 5,177 | 47.42 | Zone 2 |
| J-106 | 15.81 | 5,067 | 5,177 | 47.61 | Zone 2 |
| J-121 | 0 | 5,067 | 5,177 | 47.73 | Zone 2 |
| J-109 | 9.3 | 5,067 | 5,177 | 47.84 | Zone 2 |
| J-96 | 14.88 | 5,067 | 5,177 | 47.88 | Zone 2 |
| J-1300 | 6.97 | 5,066 | 5,176 | 47.97 | Zone 2 |
| J-234 | 5.28 | 5,211 | 5,322 | 47.99 | Zone 3 |
| J-105 | 0 | 5,066 | 5,177 | 48.04 | Zone 2 |
| J-62 | 9.3 | 5,066 | 5,177 | 48.07 | Zone 2 |
| J-67 | 14.88 | 5,066 | 5,177 | 48.1 | Zone 2 |
| J-108 | 13.02 | 5,066 | 5,177 | 48.16 | Zone 2 |
| J-1342 | 13.72 | 5,065 | 5,176 | 48.16 | Zone 2 |
| J-1343 | 0 | 5,065 | 5,176 | 48.16 | Zone 2 |
| J-119 | 9.3 | 5,066 | 5,177 | 48.21 | Zone 2 |
| J-1335 | 13.72 | 5,065 | 5,176 | 48.3 | Zone 2 |
| J-1341 | 0 | 5,065 | 5,176 | 48.33 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,177 | 48.34 | Zone 2 |
| J-118 | 10.23 | 5,066 | 5,177 | 48.35 | Zone 2 |
| J-1340 | 13.72 | 5,065 | 5,176 | 48.46 | Zone 2 |
| J-104 | 12.09 | 5,065 | 5,177 | 48.49 | Zone 2 |
| J-103 | 10.23 | 5,065 | 5,177 | 48.56 | Zone 2 |
| J-70 | 6.51 | 5,065 | 5,177 | 48.59 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,177 | 48.59 | Zone 2 |
| J-114 | 14.88 | 5,065 | 5,177 | 48.61 | Zone 2 |
| J-123 | 14.88 | 5,065 | 5,177 | 48.72 | Zone 2 |
| J-110 | 23.25 | 5,065 | 5,177 | 48.78 | Zone 2 |
| J-97 | 0 | 5,064 | 5,177 | 48.92 | Zone 2 |
| J-39 | 14.88 | 5,064 | 5,177 | 49.04 | Zone 2 |
| J-117 | 0 | 5,064 | 5,177 | 49.2 | Zone 2 |
| J-38 | 16.74 | 5,063 | 5,177 | 49.32 | Zone 2 |
| J-122 | 13.02 | 5,063 | 5,177 | 49.32 | Zone 2 |
| J-116 | 13.02 | 5,063 | 5,177 | 49.48 | Zone 2 |
| J-111 | 16.74 | 5,063 | 5,177 | 49.7 | Zone 2 |
| J-275 | 13.02 | 5,062 | 5,177 | 49.87 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,281 | 50.2 | Zone 4 |
| WELL7 | 0 | 5,200 | 5,316 | 50.37 | Zone 1 |
| J-481 | 0 | 5,165 | 5,281 | 50.42 | Zone 4 |
| J-755 | 7.54 | 5,165 | 5,281 | 50.44 | Zone 4 |
| J-73 | 0 | 5,060 | 5,177 | 50.68 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| H-3-PH19 | 0 | 5,164 | 5,281 | 50.98 | Zone 4 |
| J-235 | 0 | 5,204 | 5,322 | 51.01 | Zone 3 |
| J-100 | 12.09 | 5,060 | 5,178 | 51.15 | Zone 2 |
| J-101 | 0 | 5,059 | 5,178 | 51.24 | Zone 2 |
| J-61 | 16.74 | 5,059 | 5,177 | 51.32 | Zone 2 |
| J-744 | 0 | 5,163 | 5,281 | 51.34 | Zone 4 |
| J-756 | 7.54 | 5,162 | 5,281 | 51.55 | Zone 4 |
| J-192 | 5.42 | 5,189 | 5,309 | 51.68 | Zone 1 |
| J-237 | 6.03 | 5,202 | 5,322 | 51.72 | Zone 3 |
| J-193 | 9.32 | 5,175 | 5,295 | 51.75 | Zone 1 |
| J-652 | 11.65 | 5,148 | 5,267 | 51.79 | Zone 1 |
| J-74 | 15.81 | 5,058 | 5,177 | 51.87 | Zone 2 |
| J-72 | 20.46 | 5,057 | 5,177 | 52.07 | Zone 2 |
| J-17 | 0 | 5,057 | 5,177 | 52.18 | Zone 2 |
| J-60 | 14.88 | 5,057 | 5,177 | 52.24 | Zone 2 |
| J-112 | 19.53 | 5,057 | 5,177 | 52.36 | Zone 2 |
| J-102 | 18.6 | 5,056 | 5,178 | 52.65 | Zone 2 |
| J-71 | 0 | 5,056 | 5,177 | 52.65 | Zone 2 |
| J-395 | 7.54 | 5,159 | 5,281 | 52.74 | Zone 4 |
| J-274 | 9.3 | 5,055 | 5,177 | 52.77 | Zone 2 |
| J-185 | 0 | 5,199 | 5,322 | 52.95 | Zone 3 |
| J-3 | 0 | 5,179 | 5,302 | 53.02 | Zone 1 |
| J-59 | 9.3 | 5,057 | 5,179 | 53.02 | Zone 2 |
| J-157 | 0 | 5,054 | 5,177 | 53.31 | Zone 2 |
| WELL6 | 0 | 5,191 | 5,314 | 53.32 | Zone 1 |
| J-43 | 9.3 | 5,055 | 5,178 | 53.37 | Zone 2 |
| J-394 | 10.56 | 5,158 | 5,281 | 53.45 | Zone 4 |
| J-392 | 10.56 | 5,158 | 5,281 | 53.47 | Zone 4 |
| J-113 | 3.72 | 5,054 | 5,177 | 53.49 | Zone 2 |
| J-57 | 13.02 | 5,053 | 5,179 | 54.3 | Zone 2 |
| J-69 | 0 | 5,051 | 5,177 | 54.59 | Zone 2 |
| J-68 | 13.02 | 5,050 | 5,177 | 54.99 | Zone 2 |
| J-399 | 0 | 5,154 | 5,281 | 55.12 | Zone 4 |
| J-16 | 0 | 5,050 | 5,177 | 55.13 | Zone 2 |
| J-37 | 0 | 5,052 | 5,179 | 55.19 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,281 | 55.44 | Zone 4 |
| J-58 | 0 | 5,051 | 5,179 | 55.47 | Zone 2 |
| J-1262 | 5.42 | 5,172 | 5,300 | 55.63 | Zone 1 |
| J-448 | 12.81 | 5,134 | 5,263 | 55.73 | Zone 1 |
| J-758 | 7.54 | 5,152 | 5,281 | 55.78 | Zone 4 |
| J-53 | 16.74 | 5,049 | 5,179 | 56.25 | Zone 2 |
| PH19IRR | 0 | 5,151 | 5,281 | 56.41 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,281 | 56.42 | Zone 4 |
| J-1246 | 0 | 5,049 | 5,180 | 56.64 | Zone 2 |
| J-757 | 7.54 | 5,150 | 5,281 | 56.75 | Zone 4 |
| J-63 | 19.37 | 5,047 | 5,178 | 56.8 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-55 | 11.16 | 5,047 | 5,179 | 57.31 | Zone 2 |
| J-50 | 11.16 | 5,046 | 5,179 | 57.38 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 57.81 | Zone 2 |
| J-805 | 0 | 5,045 | 5,179 | 57.82 | Zone 4 |
| H-21-PH1 | 0 | 5,045 | 5,179 | 57.99 | Zone 4 |
| J-255 | 0 | 5,045 | 5,179 | 58.05 | Zone 2 |
| J-51 | 8.37 | 5,045 | 5,179 | 58.2 | Zone 2 |
| J-393 | 9.05 | 5,147 | 5,281 | 58.22 | Zone 4 |
| J-56 | 16.74 | 5,044 | 5,179 | 58.4 | Zone 2 |
| J-391 | 7.54 | 5,146 | 5,281 | 58.41 | Zone 4 |
| J-15 | 10.83 | 5,045 | 5,180 | 58.6 | Zone 2 |
| J-4 | 14.73 | 5,163 | 5,299 | 58.75 | Zone 1 |
| ALLEYCHU | 18.58 | 5,043 | 5,179 | 58.8 | Zone 2 |
| J-42 | 5.42 | 5,043 | 5,179 | 58.84 | Zone 2 |
| J-194 | 13.95 | 5,043 | 5,179 | 58.85 | Zone 2 |
| J-140 | 19.61 | 5,185 | 5,321 | 58.87 | Zone 3 |
| J-52 | 6.51 | 5,043 | 5,179 | 58.93 | Zone 2 |
| J-54 | 0 | 5,045 | 5,181 | 59.13 | Zone 2 |
| FH-925 | 0 | 5,144 | 5,281 | 59.4 | Zone 4 |
| J-797 | 16.74 | 5,047 | 5,184 | 59.48 | Zone 2 |
| J-23-1188 | 2.26 | 5,143 | 5,280 | 59.52 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,280 | 59.83 | Zone 4 |
| J-23-1197 | 0 | 5,142 | 5,280 | 59.87 | Zone 4 |
| J-23-1190 | 1.51 | 5,142 | 5,280 | 59.91 | Zone 4 |
| J-23-1193 | 5.28 | 5,142 | 5,280 | 59.91 | Zone 4 |
| NDYKEW | 0 | 5,046 | 5,184 | 59.93 | Zone 2 |
| J-23-1192 | 0 | 5,142 | 5,280 | 59.93 | Zone 4 |
| J-23-1189 | 2.26 | 5,142 | 5,280 | 59.93 | Zone 4 |
| J-23-1187 | 1.51 | 5,142 | 5,280 | 59.99 | Zone 4 |
| J-142 | 9.8 | 5,182 | 5,321 | 60.03 | Zone 3 |
| J-482 | 0 | 5,142 | 5,281 | 60.08 | Zone 4 |
| J-830 | 0 | 5,141 | 5,280 | 60.14 | Zone 4 |
| PRENOTR | 5.42 | 5,042 | 5,181 | 60.29 | Zone 2 |
| J-1184 | 0 | 5,140 | 5,280 | 60.76 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,280 | 60.81 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,280 | 60.85 | Zone 4 |
| J-679 | 12.82 | 5,140 | 5,281 | 60.87 | Zone 4 |
| H-68-PH1 | 0 | 5,139 | 5,280 | 61.09 | Zone 4 |
| J-836 | 6.79 | 5,139 | 5,280 | 61.14 | Zone 4 |
| J-819 | 0 | 5,139 | 5,280 | 61.18 | Zone 4 |
| J-685 | 0 | 5,139 | 5,281 | 61.22 | Zone 4 |
| J-829 | 0 | 5,139 | 5,280 | 61.34 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,280 | 61.36 | Zone 4 |
| J-390 | 0 | 5,139 | 5,281 | 61.43 | Zone 4 |
| H-67-PH1 | 0 | 5,138 | 5,280 | 61.47 | Zone 4 |
| J-841 | 0 | 5,138 | 5,280 | 61.62 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-921 | 0 | 5,138 | 5,281 | 61.76 | Zone 4 |
| J-820 | 0 | 5,137 | 5,280 | 62.23 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,280 | 62.28 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,280 | 62.29 | Zone 4 |
| J-646 | 18.64 | 5,123 | 5,267 | 62.51 | Zone 1 |
| J-815 | 8.66 | 5,136 | 5,280 | 62.55 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,280 | 62.61 | Zone 4 |
| J-447 | 9.32 | 5,118 | 5,263 | 62.78 | Zone 1 |
| J-678 | 0 | 5,135 | 5,281 | 63.16 | Zone 4 |
| J-653 | 11.65 | 5,121 | 5,267 | 63.27 | Zone 1 |
| RTOWNC | 5.42 | 5,124 | 5,271 | 63.45 | Zone 1 |
| J-352 | 9.8 | 5,134 | 5,281 | 63.52 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,281 | 63.79 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,280 | 63.92 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,281 | 63.93 | Zone 4 |
| J-810 | 0 | 5,133 | 5,280 | 64.03 | Zone 4 |
| J-645 | 0 | 5,119 | 5,267 | 64.07 | Zone 1 |
| J-816 | 9.05 | 5,132 | 5,280 | 64.19 | Zone 4 |
| J-187 | 0 | 5,173 | 5,321 | 64.22 | Zone 3 |
| J-730 | 0 | 5,131 | 5,280 | 64.57 | Zone 4 |
| J-806 | 0 | 5,131 | 5,280 | 64.64 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,280 | 64.71 | Zone 4 |
| J-732 | 0 | 5,131 | 5,280 | 64.72 | Zone 4 |
| J-328 | 0 | 5,114 | 5,263 | 64.77 | Zone 1 |
| H-2-PH18 | 0 | 5,131 | 5,280 | 64.82 | Zone 4 |
| J-677 | 15.08 | 5,130 | 5,281 | 65.13 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,280 | 65.19 | Zone 4 |
| J-23-1195 | 2.26 | 5,130 | 5,280 | 65.2 | Zone 4 |
| J-23-1196 | 3.02 | 5,130 | 5,280 | 65.21 | Zone 4 |
| J-145 | 9.05 | 5,170 | 5,321 | 65.21 | Zone 3 |
| J-811 | 9.8 | 5,130 | 5,280 | 65.23 | Zone 4 |
| J-688 | 8.66 | 5,130 | 5,281 | 65.23 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,281 | 65.3 | Zone 4 |
| J-23-1194 | 3.77 | 5,130 | 5,280 | 65.31 | Zone 4 |
| J-807 | 8.3 | 5,129 | 5,280 | 65.54 | Zone 4 |
| J-687 | 0 | 5,129 | 5,281 | 65.57 | Zone 4 |
| J-23-1197 | 2.26 | 5,129 | 5,280 | 65.65 | Zone 4 |
| J-675 | 0 | 5,129 | 5,281 | 65.8 | Zone 4 |
| J-189 | 0 | 5,145 | 5,297 | 65.88 | Zone 1 |
| J-141 | 8.3 | 5,169 | 5,321 | 65.89 | Zone 3 |
| J-343 | 10.48 | 5,109 | 5,261 | 65.97 | Zone 1 |
| J-644 | 19.8 | 5,115 | 5,268 | 65.98 | Zone 1 |
| J-159 | 12.81 | 5,108 | 5,261 | 66.03 | Zone 1 |
| J-839 | 0 | 5,128 | 5,280 | 66.1 | Zone 4 |
| H-69-PH1 | 0 | 5,127 | 5,280 | 66.26 | Zone 4 |
| J-676 | 0 | 5,127 | 5,281 | 66.39 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-483 | 0 | 5,128 | 5,281 | 66.39 | Zone 4 |
| J-190 | 0 | 5,143 | 5,296 | 66.45 | Zone 1 |
| FH-930 | 0 | 5,127 | 5,281 | 66.52 | Zone 4 |
| J-443 | 7.54 | 5,127 | 5,281 | 66.7 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,280 | 66.87 | Zone 4 |
| J-576 | 9.05 | 5,126 | 5,281 | 66.88 | Zone 4 |
| J-842 | 6.79 | 5,126 | 5,280 | 67.02 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,281 | 67.02 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,280 | 67.1 | Zone 4 |
| H-66-PH1 | 0 | 5,125 | 5,280 | 67.2 | Zone 4 |
| J-844 | 3.77 | 5,125 | 5,280 | 67.36 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,280 | 67.5 | Zone 4 |
| J-736 | 10.56 | 5,124 | 5,280 | 67.63 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,280 | 67.9 | Zone 4 |
| J-334 | 0 | 5,106 | 5,263 | 68.05 | Zone 1 |
| J-160 | 10.48 | 5,103 | 5,261 | 68.27 | Zone 1 |
| J-817 | 0 | 5,122 | 5,280 | 68.51 | Zone 4 |
| J-846 | 0 | 5,122 | 5,280 | 68.65 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,280 | 68.76 | Zone 4 |
| J-690 | 0 | 5,122 | 5,281 | 68.77 | Zone 4 |
| J-333 | 11.65 | 5,104 | 5,263 | 68.86 | Zone 1 |
| J-674 | 0 | 5,121 | 5,281 | 68.95 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,280 | 69 | Zone 4 |
| J-808 | 0 | 5,121 | 5,280 | 69.09 | Zone 4 |
| H-65-PH1 | 0 | 5,121 | 5,280 | 69.1 | Zone 4 |
| J-843 | 0 | 5,121 | 5,280 | 69.1 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,280 | 69.12 | Zone 4 |
| J-812 | 0 | 5,121 | 5,280 | 69.12 | Zone 4 |
| J-143 | 6.79 | 5,161 | 5,321 | 69.16 | Zone 3 |
| J-329 | 9.32 | 5,103 | 5,263 | 69.23 | Zone 1 |
| FH-924 | 0 | 5,120 | 5,281 | 69.42 | Zone 4 |
| J-389 | 3.02 | 5,120 | 5,281 | 69.53 | Zone 4 |
| J-306 | 9.32 | 5,134 | 5,294 | 69.58 | Zone 1 |
| J-23-120 | 3.02 | 5,119 | 5,280 | 69.79 | Zone 4 |
| J-5 | 9.32 | 5,133 | 5,294 | 69.89 | Zone 1 |
| J-23-1202 | 3.77 | 5,119 | 5,280 | 69.92 | Zone 4 |
| J-348 | 7.54 | 5,119 | 5,281 | 70.1 | Zone 4 |
| J-813 | 9.05 | 5,118 | 5,280 | 70.31 | Zone 4 |
| J-818 | 8.3 | 5,118 | 5,280 | 70.33 | Zone 4 |
| J-680 | 9.8 | 5,118 | 5,281 | 70.45 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,280 | 70.51 | Zone 4 |
| J-184 | 8.66 | 5,118 | 5,281 | 70.55 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,280 | 70.55 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,280 | 70.6 | Zone 4 |
| J-823 | 0 | 5,117 | 5,280 | 70.61 | Zone 4 |
| J-809 | 8.3 | 5,117 | 5,280 | 70.62 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-648 | 5.82 | 5,104 | 5,267 | 70.77 | Zone 1 |
| J-729 | 0 | 5,117 | 5,280 | 70.79 | Zone 4 |
| J-27 | 0 | 5,102 | 5,266 | 70.96 | Zone 1 |
| J-446 | 9.32 | 5,099 | 5,263 | 70.98 | Zone 1 |
| J-340 | 6.99 | 5,097 | 5,261 | 71.12 | Zone 1 |
| J-596 | 0 | 5,105 | 5,269 | 71.17 | Zone 1 |
| J-603 | 11.65 | 5,103 | 5,267 | 71.18 | Zone 1 |
| J-735 | 0 | 5,116 | 5,280 | 71.19 | Zone 4 |
| J-851 | 6.03 | 5,116 | 5,280 | 71.23 | Zone 4 |
| H-61-PH1 | 0 | 5,116 | 5,280 | 71.24 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,280 | 71.26 | Zone 4 |
| J-346 | 0 | 5,116 | 5,281 | 71.39 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,280 | 71.4 | Zone 4 |
| J-770 | 0 | 5,115 | 5,280 | 71.41 | Zone 4 |
| J-25 | 0 | 5,104 | 5,269 | 71.42 | Zone 1 |
| J-833 | 0 | 5,115 | 5,280 | 71.49 | Zone 4 |
| H-64-PH1 | 0 | 5,115 | 5,280 | 71.51 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,281 | 71.55 | Zone 4 |
| J-332 | 0 | 5,098 | 5,263 | 71.59 | Zone 1 |
| J-840 | 7.54 | 5,115 | 5,280 | 71.67 | Zone 4 |
| J-845 | 7.54 | 5,115 | 5,280 | 71.73 | Zone 4 |
| H-70-PH1 | 0 | 5,115 | 5,280 | 71.8 | Zone 4 |
| J22-886 | 2.26 | 5,114 | 5,280 | 71.98 | Zone 4 |
| J-814 | 0 | 5,114 | 5,280 | 71.98 | Zone 4 |
| J-647 | 11.65 | 5,101 | 5,267 | 71.99 | Zone 1 |
| H-58-PH1 | 0 | 5,114 | 5,280 | 72.06 | Zone 4 |
| J-855 | 6.79 | 5,114 | 5,280 | 72.1 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,280 | 72.15 | Zone 4 |
| J22-884 | 2.26 | 5,114 | 5,280 | 72.2 | Zone 4 |
| H-60-PH1 | 0 | 5,114 | 5,280 | 72.23 | Zone 4 |
| J-330 | 8.15 | 5,096 | 5,263 | 72.25 | Zone 1 |
| J-832 | 0 | 5,113 | 5,280 | 72.27 | Zone 4 |
| J22-1079 | 5.05 | 5,113 | 5,280 | 72.3 | Zone 4 |
| J22-1159 | 2.26 | 5,113 | 5,280 | 72.31 | Zone 4 |
| J-852 | 6.03 | 5,113 | 5,280 | 72.33 | Zone 4 |
| J-442 | 8.3 | 5,114 | 5,281 | 72.33 | Zone 4 |
| J22-1158 | 2.26 | 5,113 | 5,280 | 72.33 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,280 | 72.35 | Zone 4 |
| J-689 | 6.79 | 5,113 | 5,280 | 72.37 | Zone 4 |
| H-59-PH1 | 0 | 5,113 | 5,280 | 72.39 | Zone 4 |
| J-856 | 6.79 | 5,113 | 5,280 | 72.4 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,280 | 72.42 | Zone 4 |
| J-650 | 0 | 5,113 | 5,281 | 72.59 | Zone 4 |
| J-166 | 9.32 | 5,093 | 5,261 | 72.64 | Zone 1 |
| J-139 | 0 | 5,153 | 5,321 | 72.72 | Zone 3 |
| J-445 | 0 | 5,095 | 5,263 | 72.77 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-783 | 5.28 | 5,112 | 5,280 | 72.92 | Zone 4 |
| DDLESCH | 8.66 | 5,112 | 5,281 | 72.96 | Zone 4 |
| H-20-PH1 | 0 | 5,112 | 5,280 | 73 | Zone 4 |
| J-570 | 0 | 5,112 | 5,281 | 73.02 | Zone 4 |
| J-854 | 6.79 | 5,112 | 5,280 | 73.04 | Zone 4 |
| J-441 | 8.3 | 5,112 | 5,281 | 73.07 | Zone 4 |
| J-387 | 0 | 5,126 | 5,294 | 73.12 | Zone 1 |
| H-57-PH1 | 0 | 5,112 | 5,280 | 73.13 | Zone 4 |
| J-434 | 6.03 | 5,112 | 5,281 | 73.15 | Zone 4 |
| J-734 | 0 | 5,111 | 5,280 | 73.37 | Zone 4 |
| J-595 | 4.66 | 5,099 | 5,269 | 73.43 | Zone 1 |
| J22-848 | 0 | 5,111 | 5,280 | 73.49 | Zone 4 |
| J-433 | 3.02 | 5,111 | 5,281 | 73.56 | Zone 4 |
| FH-919 | 9.05 | 5,111 | 5,281 | 73.61 | Zone 4 |
| J-195 | 0 | 5,111 | 5,281 | 73.62 | Zone 4 |
| J-681 | 0 | 5,110 | 5,280 | 73.7 | Zone 4 |
| H-72-PH1 | 0 | 5,110 | 5,280 | 73.73 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,280 | 73.85 | Zone 4 |
| J22-1082 | 8.66 | 5,110 | 5,280 | 73.93 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,280 | 74.03 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,280 | 74.04 | Zone 4 |
| J-336 | 9.32 | 5,091 | 5,262 | 74.1 | Zone 1 |
| J-606 | 16.31 | 5,096 | 5,267 | 74.12 | Zone 1 |
| PH22-FH5 | 0 | 5,109 | 5,280 | 74.15 | Zone 4 |
| J-649 | 0 | 5,109 | 5,281 | 74.23 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,280 | 74.3 | Zone 4 |
| J22-1161 | 2.26 | 5,109 | 5,280 | 74.35 | Zone 4 |
| J-835 | 0 | 5,109 | 5,280 | 74.36 | Zone 4 |
| J-834 | 0 | 5,109 | 5,280 | 74.41 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,280 | 74.42 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,280 | 74.43 | Zone 4 |
| H-62-PH1 | 0 | 5,108 | 5,280 | 74.49 | Zone 4 |
| J-592 | 15.14 | 5,096 | 5,268 | 74.61 | Zone 1 |
| J22-1163 | 2.26 | 5,108 | 5,280 | 74.64 | Zone 4 |
| J-731 | 0 | 5,108 | 5,280 | 74.65 | Zone 4 |
| J-571 | 0 | 5,108 | 5,281 | 74.71 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,280 | 74.78 | Zone 4 |
| J-286 | 23.74 | 5,108 | 5,281 | 74.91 | Zone 4 |
| J-847 | 0 | 5,107 | 5,280 | 75.02 | Zone 4 |
| J22-890 | 1.51 | 5,107 | 5,280 | 75.17 | Zone 4 |
| J-642 | 0 | 5,107 | 5,281 | 75.17 | Zone 4 |
| J-191 | 14.73 | 5,122 | 5,295 | 75.22 | Zone 1 |
| J22-1069 | 0 | 5,107 | 5,280 | 75.26 | Zone 4 |
| J-290 | 0 | 5,120 | 5,294 | 75.29 | Zone 1 |
| J-327 | 12.81 | 5,089 | 5,263 | 75.31 | Zone 1 |
| J-341 | 0 | 5,088 | 5,262 | 75.48 | Zone 1 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-284 | 12.07 | 5,106 | 5,281 | 75.52 | Zone 4 |
| J-667 | 0 | 5,106 | 5,280 | 75.6 | Zone 4 |
| J-850 | 6.03 | 5,106 | 5,280 | 75.68 | Zone 4 |
| J-765 | 0 | 5,106 | 5,280 | 75.7 | Zone 4 |
| H-63-PH1 | 0 | 5,105 | 5,280 | 75.75 | Zone 4 |
| J-857 | 0 | 5,105 | 5,280 | 75.83 | Zone 4 |
| J-144 | 0 | 5,145 | 5,321 | 75.98 | Zone 3 |
| J-339 | 8.15 | 5,086 | 5,261 | 76.11 | Zone 1 |
| J-858 | 6.03 | 5,105 | 5,280 | 76.14 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,280 | 76.3 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,280 | 76.31 | Zone 4 |
| J-23-1206 | 2.26 | 5,104 | 5,280 | 76.5 | Zone 4 |
| J-769 | 0 | 5,104 | 5,280 | 76.54 | Zone 4 |
| J-853 | 0 | 5,103 | 5,280 | 76.69 | Zone 4 |
| H-19-PH1 | 0 | 5,103 | 5,280 | 76.72 | Zone 4 |
| J-764 | 8.66 | 5,103 | 5,280 | 76.73 | Zone 4 |
| J-23-1205 | 2.26 | 5,103 | 5,280 | 76.82 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,280 | 76.84 | Zone 4 |
| J-733 | 10.56 | 5,103 | 5,280 | 76.85 | Zone 4 |
| J-203 | 7.54 | 5,103 | 5,280 | 76.88 | Zone 4 |
| J-782 | 5.28 | 5,103 | 5,280 | 76.97 | Zone 4 |
| J-651 | 0 | 5,103 | 5,281 | 76.99 | Zone 4 |
| PH22-FH9 | 0 | 5,102.58 | 5,280.29 | 77.01 | Zone 4 |
| J-283 | 8.3 | 5,102.74 | 5,280.60 | 77.07 | Zone 4 |
| J22-1165 | 3.02 | 5,102.35 | 5,280.29 | 77.1 | Zone 4 |
| J-799 | 0 | 5,102.30 | 5,280.29 | 77.12 | Zone 4 |
| J22-1164 | 2.26 | 5,102.26 | 5,280.29 | 77.14 | Zone 4 |
| J22-1084 | 0 | 5,102.15 | 5,280.29 | 77.19 | Zone 4 |
| PH22-FH8 | 0 | 5,102.01 | 5,280.29 | 77.25 | Zone 4 |
| J-666 | 9.8 | 5,102.13 | 5,280.45 | 77.27 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,294.01 | 77.31 | Zone 1 |
| J-23-1203 | 3.77 | 5,101.82 | 5,280.30 | 77.34 | Zone 4 |
| J-161 | 10.48 | 5,082.45 | 5,260.95 | 77.34 | Zone 1 |
| J22-892 | 1.51 | 5,101.66 | 5,280.29 | 77.4 | Zone 4 |
| J-1071 | 0 | 5,101.47 | 5,280.30 | 77.49 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,261.52 | 77.59 | Zone 1 |
| J-768 | 0 | 5,101.09 | 5,280.30 | 77.65 | Zone 4 |
| J23-IRR | 0 | 5,101.05 | 5,280.30 | 77.67 | Zone 4 |
| J-590 | 10.48 | 5,088.31 | 5,267.56 | 77.67 | Zone 1 |
| J22-1085 | 0 | 5,100.66 | 5,280.30 | 77.84 | Zone 4 |
| J-683 | 9.8 | 5,100.73 | 5,280.39 | 77.84 | Zone 4 |
| J22-1166 | 0 | 5,100.41 | 5,280.30 | 77.95 | Zone 4 |
| H22-FH1 | 0 | 5,100.33 | 5,280.30 | 77.98 | Zone 4 |
| J-432 | 3.02 | 5,100.59 | 5,280.59 | 77.99 | Zone 4 |
| H-18-PH1 | 0 | 5,100.15 | 5,280.29 | 78.06 | Zone 4 |
| H-16-PH1 | 0 | 5,099.69 | 5,280.30 | 78.25 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-204 | 7.54 | 5,099.81 | 5,280.45 | 78.27 | Zone 4 |
| J-604 | 6.99 | 5,086.47 | 5,267.13 | 78.28 | Zone 1 |
| J-427 | 11.65 | 5,082.41 | 5,263.08 | 78.29 | Zone 1 |
| J-780 | 9.05 | 5,099.49 | 5,280.29 | 78.34 | Zone 4 |
| J-763 | 0 | 5,099.48 | 5,280.29 | 78.35 | Zone 4 |
| J-597 | 13.98 | 5,085.96 | 5,266.97 | 78.43 | Zone 1 |
| J22-1168 | 3.02 | 5,099.28 | 5,280.30 | 78.44 | Zone 4 |
| H-17-PH1 | 0 | 5,099.26 | 5,280.29 | 78.44 | Zone 4 |
| H22-FH1 | 0 | 5,099.17 | 5,280.30 | 78.48 | Zone 4 |
| J-196 | 0 | 5,099.35 | 5,280.59 | 78.53 | Zone 4 |
| H22-FH1 | 0 | 5,098.86 | 5,280.31 | 78.62 | Zone 4 |
| J22-1170 | 3.02 | 5,098.86 | 5,280.31 | 78.62 | Zone 4 |
| J-781 | 7.54 | 5,098.79 | 5,280.30 | 78.64 | Zone 4 |
| J-23-1204 | 3.77 | 5,098.75 | 5,280.30 | 78.67 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,280.31 | 78.72 | Zone 4 |
| DG3-CC0 | 5.05 | 5,098.71 | 5,280.46 | 78.75 | Zone 4 |
| J22-1086 | 0 | 5,098.57 | 5,280.32 | 78.75 | Zone 4 |
| J22-1171 | 3.02 | 5,098.51 | 5,280.31 | 78.77 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,280.30 | 78.77 | Zone 4 |
| J-281 | 6.03 | 5,098.63 | 5,280.55 | 78.83 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,280.31 | 78.83 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,280.29 | 78.85 | Zone 4 |
| H22-FH1 | 0 | 5,098.28 | 5,280.31 | 78.87 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,280.30 | 79.02 | Zone 4 |
| J-704 | 8.66 | 5,098.03 | 5,280.46 | 79.05 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,280.43 | 79.1 | Zone 4 |
| J22-1169 | 3.77 | 5,097.42 | 5,280.30 | 79.24 | Zone 4 |
| H-15-PH1 | 0 | 5,097.37 | 5,280.30 | 79.27 | Zone 4 |
| H22-FH1 | 0 | 5,097.31 | 5,280.30 | 79.29 | Zone 4 |
| H22-FH1 | 0 | 5,097.23 | 5,280.31 | 79.33 | Zone 4 |
| J22-1172 | 6.79 | 5,097.21 | 5,280.31 | 79.34 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,280.48 | 79.39 | Zone 4 |
| J-767 | 8.66 | 5,097.07 | 5,280.30 | 79.39 | Zone 4 |
| J-484 | 8.3 | 5,097.17 | 5,280.43 | 79.41 | Zone 4 |
| J-705 | 0 | 5,097.12 | 5,280.46 | 79.44 | Zone 4 |
| J-778 | 11.31 | 5,096.86 | 5,280.30 | 79.49 | Zone 4 |
| J-671 | 8.66 | 5,096.69 | 5,280.37 | 79.59 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,280.47 | 79.64 | Zone 4 |
| J22-898 | 0 | 5,096.50 | 5,280.31 | 79.65 | Zone 4 |
| J-331 | 10.48 | 5,079.08 | 5,263.10 | 79.74 | Zone 1 |
| J-714 | 0 | 5,096.31 | 5,280.34 | 79.74 | Zone 4 |
| J-205 | 7.54 | 5,096.27 | 5,280.44 | 79.8 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,320.76 | 79.81 | Zone 3 |
| H-13-PH1 | 0 | 5,096.07 | 5,280.30 | 79.83 | Zone 4 |
| J-23-1207 | 3.77 | 5,095.92 | 5,280.34 | 79.91 | Zone 4 |
| J-337 | 17.47 | 5,077.64 | 5,262.07 | 79.91 | Zone 1 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-485 | 17.71 | 5,095.99 | 5,280.43 | 79.92 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,280.31 | 79.97 | Zone 4 |
| H-11-PH1 | 0 | 5,095.76 | 5,280.33 | 79.97 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,280.31 | 79.98 | Zone 4 |
| J-325 | 13.18 | 5,095.74 | 5,280.50 | 80.06 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,280.41 | 80.09 | Zone 4 |
| J-776 | 7.54 | 5,095.41 | 5,280.30 | 80.12 | Zone 4 |
| H-14-PH1 | 0 | 5,095.35 | 5,280.31 | 80.14 | Zone 4 |
| J22-874 | 1.51 | 5,095.38 | 5,280.34 | 80.15 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,280.34 | 80.19 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,280.49 | 80.21 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,280.40 | 80.23 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,280.34 | 80.23 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,280.42 | 80.23 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,280.33 | 80.3 | Zone 4 |
| J22-1087 | 13.7 | 5,094.99 | 5,280.34 | 80.31 | Zone 4 |
| J-589 | 13.98 | 5,082.17 | 5,267.57 | 80.33 | Zone 1 |
| J-1260 | 0 | 5,094.97 | 5,280.49 | 80.39 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,280.32 | 80.41 | Zone 4 |
| J-248 | 10.56 | 5,135.17 | 5,320.78 | 80.42 | Zone 3 |
| J-206 | 7.54 | 5,094.63 | 5,280.44 | 80.51 | Zone 4 |
| J-431 | 3.77 | 5,094.71 | 5,280.54 | 80.52 | Zone 4 |
| J-771 | 14.33 | 5,094.49 | 5,280.33 | 80.52 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,280.31 | 80.54 | Zone 4 |
| J-162 | 11.65 | 5,074.91 | 5,260.81 | 80.55 | Zone 1 |
| J-23-1228 | 6.03 | 5,094.40 | 5,280.33 | 80.56 | Zone 4 |
| J-660 | 6.03 | 5,094.39 | 5,280.39 | 80.6 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,280.45 | 80.6 | Zone 4 |
| J-1272 | 4.53 | 5,094.45 | 5,280.49 | 80.61 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,280.32 | 80.65 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,280.46 | 80.66 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,320.76 | 80.67 | Zone 3 |
| J-197 | 0 | 5,094.12 | 5,280.54 | 80.77 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,280.46 | 80.82 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,280.33 | 80.88 | Zone 4 |
| H-10-PH1 | 0 | 5,093.60 | 5,280.33 | 80.91 | Zone 4 |
| J-657 | 7.54 | 5,093.38 | 5,280.36 | 81.02 | Zone 4 |
| J-775 | 7.54 | 5,093.32 | 5,280.32 | 81.03 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,280.37 | 81.07 | Zone 4 |
| J-23-1212 | 3.02 | 5,093.24 | 5,280.40 | 81.1 | Zone 4 |
| J-662 | 7.54 | 5,092.99 | 5,280.40 | 81.2 | Zone 4 |
| J22-1088 | 5.05 | 5,092.98 | 5,280.40 | 81.21 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,280.40 | 81.25 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,280.33 | 81.25 | Zone 4 |
| J22-880 | 2.26 | 5,092.85 | 5,280.40 | 81.27 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,266.86 | 81.29 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| H22-FH1 | 0 | 5,092.73 | 5,280.40 | 81.32 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,280.32 | 81.36 | Zone 4 |
| J-207 | 7.54 | 5,092.46 | 5,280.44 | 81.45 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,280.46 | 81.45 | Zone 4 |
| J-2-IRR-11 | 0 | 5,092.39 | 5,280.41 | 81.47 | Zone 4 |
| J-658 | 11.31 | 5,092.30 | 5,280.37 | 81.49 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,280.32 | 81.57 | Zone 4 |
| J-23-1208 | 5.28 | 5,092.02 | 5,280.32 | 81.59 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,280.44 | 81.62 | Zone 4 |
| J-VILLAGE | 8.66 | 5,092.08 | 5,280.46 | 81.63 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,280.32 | 81.64 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,280.32 | 81.66 | Zone 4 |
| J-655 | 7.54 | 5,091.87 | 5,280.39 | 81.69 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,280.80 | 81.7 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,280.44 | 81.75 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,280.39 | 81.75 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,280.46 | 81.81 | Zone 4 |
| J-466 | 11.31 | 5,091.59 | 5,280.43 | 81.83 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,280.36 | 81.84 | Zone 4 |
| J-23-1216 | 2.26 | 5,091.71 | 5,280.63 | 81.86 | Zone 4 |
| J-23 | 6.99 | 5,102.29 | 5,291.30 | 81.9 | Zone 1 |
| J-454 | 9.05 | 5,091.37 | 5,280.46 | 81.93 | Zone 4 |
| J-198 | 9.8 | 5,091.35 | 5,280.48 | 81.95 | Zone 4 |
| J-664 | 6.79 | 5,091.23 | 5,280.42 | 81.98 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,280.39 | 81.98 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,280.63 | 81.99 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,280.63 | 82.04 | Zone 4 |
| J-23-1215 | 1.51 | 5,091.25 | 5,280.60 | 82.05 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,280.46 | 82.06 | Zone 4 |
| J-1266 | 2.26 | 5,091.08 | 5,280.46 | 82.06 | Zone 4 |
| J-23-1219 | 1.51 | 5,091.11 | 5,280.63 | 82.12 | Zone 4 |
| J-1257 | 9.05 | 5,090.93 | 5,280.47 | 82.13 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,280.36 | 82.13 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,280.74 | 82.25 | Zone 4 |
| J-1279-IR | 8.66 | 5,090.60 | 5,280.47 | 82.27 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,280.40 | 82.29 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,280.66 | 82.29 | Zone 4 |
| J-23-1227 | 0 | 5,090.70 | 5,280.71 | 82.33 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,280.46 | 82.34 | Zone 4 |
| J-1259 | 4.53 | 5,090.30 | 5,280.47 | 82.4 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,280.45 | 82.4 | Zone 4 |
| J-1255 | 6.79 | 5,090.25 | 5,280.46 | 82.42 | Zone 4 |
| J-23-1213 | 4.53 | 5,090.32 | 5,280.57 | 82.43 | Zone 4 |
| J-588 | 10.48 | 5,077.31 | 5,267.56 | 82.44 | Zone 1 |
| J22-882 | 3.02 | 5,090.19 | 5,280.47 | 82.45 | Zone 4 |
| J-23-1214 | 0.75 | 5,090.30 | 5,280.59 | 82.45 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-453 | 12.82 | 5,090.15 | 5,280.46 | 82.46 | Zone 4 |
| J-28 | 0 | 5,073.11 | 5,263.45 | 82.47 | Zone 1 |
| H22-FH1 | 0 | 5,090.10 | 5,280.46 | 82.48 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,280.40 | 82.48 | Zone 4 |
| J-385 | 9.29 | 5,076.49 | 5,267.15 | 82.61 | Zone 1 |
| J-661 | 6.79 | 5,089.72 | 5,280.40 | 82.62 | Zone 4 |
| J-591 | 0 | 5,076.59 | 5,267.47 | 82.71 | Zone 1 |
| FH-914 | 0 | 5,089.29 | 5,280.40 | 82.81 | Zone 4 |
| J-199 | 10.56 | 5,089.28 | 5,280.45 | 82.83 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,280.42 | 82.94 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,280.46 | 83.03 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,280.43 | 83.06 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,280.42 | 83.08 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,280.46 | 83.29 | Zone 4 |
| J-150 | 10.48 | 5,066.84 | 5,259.45 | 83.46 | Zone 1 |
| J-1256 | 4.53 | 5,087.68 | 5,280.47 | 83.53 | Zone 4 |
| J-324 | 3.77 | 5,087.57 | 5,280.48 | 83.59 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,280.46 | 83.62 | Zone 4 |
| LEMSCH | 17.31 | 5,087.43 | 5,280.45 | 83.63 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,280.45 | 83.68 | Zone 4 |
| J-200 | 10.56 | 5,087.30 | 5,280.44 | 83.69 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,280.45 | 83.7 | Zone 4 |
| 7CSELEN | 0 | 5,087.23 | 5,280.45 | 83.72 | Zone 4 |
| J-440 | 4.53 | 5,086.88 | 5,280.50 | 83.9 | Zone 4 |
| J-478 | 6.03 | 5,086.54 | 5,280.46 | 84.03 | Zone 4 |
| J-474 | 6.03 | 5,086.26 | 5,280.46 | 84.15 | Zone 4 |
| J-438 | 9.8 | 5,086.25 | 5,280.50 | 84.17 | Zone 4 |
| J-151 | 6.99 | 5,065.12 | 5,259.44 | 84.2 | Zone 1 |
| J-460 | 9.8 | 5,086.01 | 5,280.48 | 84.26 | Zone 4 |
| J-407 | 3.77 | 5,085.64 | 5,280.42 | 84.4 | Zone 4 |
| J-1274 | 0 | 5,085.67 | 5,280.47 | 84.41 | Zone 4 |
| J-201 | 10.56 | 5,085.59 | 5,280.44 | 84.43 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,280.47 | 84.51 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,280.48 | 84.63 | Zone 4 |
| J22-902 | 8.66 | 5,085.12 | 5,280.46 | 84.64 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,280.48 | 84.76 | Zone 4 |
| J-475 | 6.79 | 5,084.82 | 5,280.47 | 84.78 | Zone 4 |
| J-408 | 9.05 | 5,084.71 | 5,280.42 | 84.8 | Zone 4 |
| J-202 | 9.05 | 5,084.62 | 5,280.44 | 84.85 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,280.46 | 85.02 | Zone 4 |
| J-280 | 6.03 | 5,084.28 | 5,280.56 | 85.05 | Zone 4 |
| H22-FH1 | 0 | 5,084.13 | 5,280.46 | 85.07 | Zone 4 |
| J-285 | 9.05 | 5,083.77 | 5,280.48 | 85.23 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,280.42 | 85.36 | Zone 4 |
| J-476 | 6.03 | 5,083.43 | 5,280.47 | 85.38 | Zone 4 |
| J-409 | 4.53 | 5,083.24 | 5,280.43 | 85.44 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-323 | 13.93 | 5,083.06 | 5,280.47 | 85.54 | Zone 4 |
| J-282 | 8.3 | 5,082.97 | 5,280.56 | 85.62 | Zone 4 |
| J-471 | 11.31 | 5,082.54 | 5,280.45 | 85.76 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,280.47 | 85.76 | Zone 4 |
| J-208 | 7.54 | 5,082.50 | 5,280.47 | 85.78 | Zone 4 |
| J-273 | 5.28 | 5,082.46 | 5,280.46 | 85.79 | Zone 4 |
| J-461 | 11.31 | 5,082.44 | 5,280.48 | 85.81 | Zone 4 |
| J-477 | 6.03 | 5,082.15 | 5,280.47 | 85.93 | Zone 4 |
| J-473 | 9.05 | 5,082.14 | 5,280.46 | 85.93 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,280.47 | 86 | Zone 4 |
| J-459 | 6.79 | 5,081.68 | 5,280.47 | 86.14 | Zone 4 |
| J-410 | 5.28 | 5,081.37 | 5,280.44 | 86.26 | Zone 4 |
| J-215 | 16.2 | 5,081.17 | 5,280.45 | 86.35 | Zone 4 |
| J-424 | 5.05 | 5,081.15 | 5,280.47 | 86.36 | Zone 4 |
| J-405 | 6.03 | 5,081.06 | 5,280.43 | 86.38 | Zone 4 |
| J-271 | 8.3 | 5,080.96 | 5,280.46 | 86.45 | Zone 4 |
| J-6 | 9.32 | 5,094.60 | 5,294.16 | 86.47 | Zone 1 |
| J-249 | 8.3 | 5,120.99 | 5,320.67 | 86.52 | Zone 3 |
| J-320 | 8.66 | 5,080.78 | 5,280.46 | 86.52 | Zone 4 |
| J-586 | 17.31 | 5,080.67 | 5,280.47 | 86.57 | Zone 4 |
| J-462 | 13.58 | 5,080.60 | 5,280.48 | 86.61 | Zone 4 |
| J-417 | 9.05 | 5,080.47 | 5,280.47 | 86.66 | Zone 4 |
| J-272 | 5.28 | 5,080.44 | 5,280.46 | 86.67 | Zone 4 |
| J-1242 | 0 | 5,060.56 | 5,260.61 | 86.68 | Zone 1 |
| J-321 | 4.53 | 5,080.22 | 5,280.46 | 86.76 | Zone 4 |
| J-214 | 7.54 | 5,080.16 | 5,280.44 | 86.78 | Zone 4 |
| J-270 | 8.3 | 5,080.13 | 5,280.46 | 86.8 | Zone 4 |
| J-164 | 16.31 | 5,059.45 | 5,259.77 | 86.8 | Zone 1 |
| J-158 | 23.29 | 5,060.32 | 5,260.65 | 86.8 | Zone 1 |
| J-411 | 5.28 | 5,079.96 | 5,280.44 | 86.87 | Zone 4 |
| J-472 | 8.3 | 5,079.93 | 5,280.46 | 86.89 | Zone 4 |
| J-152 | 11.65 | 5,058.73 | 5,259.45 | 86.97 | Zone 1 |
| J-404 | 6.03 | 5,079.68 | 5,280.45 | 86.99 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,320.66 | 87.04 | Zone 3 |
| J-420 | 0 | 5,079.50 | 5,280.48 | 87.09 | Zone 4 |
| J-458 | 7.54 | 5,079.24 | 5,280.47 | 87.19 | Zone 4 |
| J-163 | 15.14 | 5,058.71 | 5,260.02 | 87.23 | Zone 1 |
| J-470 | 0 | 5,078.94 | 5,280.46 | 87.32 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,280.47 | 87.33 | Zone 4 |
| J-277 | 9.05 | 5,078.88 | 5,280.46 | 87.34 | Zone 4 |
| J-418 | 8.3 | 5,078.88 | 5,280.48 | 87.35 | Zone 4 |
| J-239 | 7.54 | 5,078.79 | 5,280.44 | 87.37 | Zone 4 |
| J-412 | 5.28 | 5,078.68 | 5,280.45 | 87.42 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,280.47 | 87.47 | Zone 4 |
| J-403 | 5.28 | 5,078.53 | 5,280.45 | 87.49 | Zone 4 |
| J-1230 | 4.66 | 5,058.21 | 5,260.53 | 87.67 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-587 | 8.66 | 5,078.13 | 5,280.46 | 87.67 | Zone 4 |
| J-279 | 6.79 | 5,078.05 | 5,280.46 | 87.7 | Zone 4 |
| J-269 | 7.54 | 5,077.78 | 5,280.46 | 87.82 | Zone 4 |
| J-426 | 8.3 | 5,077.65 | 5,280.47 | 87.88 | Zone 4 |
| J-212 | 6.79 | 5,077.48 | 5,280.44 | 87.94 | Zone 4 |
| J-413 | 5.28 | 5,077.49 | 5,280.46 | 87.95 | Zone 4 |
| J-165 | 24.46 | 5,057.28 | 5,260.28 | 87.96 | Zone 1 |
| J-153 | 10.48 | 5,056.40 | 5,259.45 | 87.98 | Zone 1 |
| J-425 | 3.02 | 5,077.39 | 5,280.47 | 87.99 | Zone 4 |
| J-264 | 7.54 | 5,077.35 | 5,280.47 | 88.01 | Zone 4 |
| J-402 | 6.03 | 5,077.13 | 5,280.45 | 88.1 | Zone 4 |
| J-231 | 7.54 | 5,076.71 | 5,280.45 | 88.28 | Zone 4 |
| J-276 | 10.56 | 5,076.67 | 5,280.47 | 88.3 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,280.49 | 88.4 | Zone 4 |
| J-230 | 7.54 | 5,076.30 | 5,280.44 | 88.46 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,280.50 | 88.54 | Zone 4 |
| J-226 | 7.54 | 5,075.95 | 5,280.44 | 88.6 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,280.50 | 88.61 | Zone 4 |
| J-1231 | 9.32 | 5,055.87 | 5,260.47 | 88.66 | Zone 1 |
| J-268 | 0 | 5,075.75 | 5,280.47 | 88.7 | Zone 4 |
| J-401 | 6.79 | 5,075.73 | 5,280.47 | 88.71 | Zone 4 |
| J-295 | 9.8 | 5,075.72 | 5,280.51 | 88.74 | Zone 4 |
| J-1322 | 9.32 | 5,055.28 | 5,260.17 | 88.78 | Zone 1 |
| J-278 | 9.05 | 5,075.57 | 5,280.47 | 88.78 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,280.47 | 88.8 | Zone 4 |
| J-436 | 9.8 | 5,075.48 | 5,280.47 | 88.82 | Zone 4 |
| J-296 | 8.3 | 5,075.50 | 5,280.50 | 88.83 | Zone 4 |
| J-1234 | 0 | 5,054.94 | 5,260.17 | 88.92 | Zone 1 |
| J-315 | 10.56 | 5,075.27 | 5,280.50 | 88.93 | Zone 4 |
| J-228 | 7.54 | 5,075.04 | 5,280.44 | 89 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,280.47 | 89.08 | Zone 4 |
| J-154 | 16.28 | 5,053.62 | 5,259.46 | 89.19 | Zone 1 |
| J-314 | 0 | 5,074.59 | 5,280.51 | 89.22 | Zone 4 |
| J-400 | 6.03 | 5,074.49 | 5,280.50 | 89.27 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,280.44 | 89.27 | Zone 4 |
| J-289 | 9.32 | 5,087.80 | 5,293.96 | 89.33 | Zone 1 |
| J-294 | 6.79 | 5,074.33 | 5,280.51 | 89.34 | Zone 4 |
| J-316 | 17.71 | 5,074.16 | 5,280.49 | 89.4 | Zone 4 |
| J-254 | 5.28 | 5,074.06 | 5,280.44 | 89.42 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,280.47 | 89.43 | Zone 4 |
| J-303 | 3.77 | 5,074.07 | 5,280.51 | 89.45 | Zone 4 |
| J-312 | 10.56 | 5,073.95 | 5,280.52 | 89.51 | Zone 4 |
| J-308 | 12.07 | 5,073.29 | 5,280.54 | 89.8 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,280.45 | 89.81 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,280.53 | 89.85 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,280.50 | 89.86 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-257 | 0 | 5,072.91 | 5,280.47 | 89.94 | Zone 4 |
| J-266 | 6.79 | 5,072.93 | 5,280.51 | 89.95 | Zone 4 |
| J-155 | 9.32 | 5,051.81 | 5,259.45 | 89.97 | Zone 1 |
| J-233 | 8.66 | 5,072.79 | 5,280.45 | 89.98 | Zone 4 |
| J-260 | 4.53 | 5,072.80 | 5,280.49 | 89.99 | Zone 4 |
| J-313 | 9.05 | 5,072.76 | 5,280.52 | 90.02 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,280.45 | 90.08 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,280.44 | 90.19 | Zone 4 |
| J-310 | 10.56 | 5,072.34 | 5,280.54 | 90.22 | Zone 4 |
| J-309 | 7.54 | 5,072.32 | 5,280.54 | 90.22 | Zone 4 |
| J-344 | 0 | 5,050.64 | 5,258.95 | 90.26 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,259.41 | 90.29 | Zone 1 |
| J-259 | 4.53 | 5,072.01 | 5,280.51 | 90.34 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,280.44 | 90.44 | Zone 4 |
| J-300 | 6.03 | 5,071.64 | 5,280.56 | 90.52 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,280.54 | 90.61 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,280.51 | 90.65 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,320.50 | 90.67 | Zone 3 |
| J-256 | 0 | 5,071.23 | 5,280.49 | 90.67 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,280.44 | 90.67 | Zone 4 |
| J-263 | 16.72 | 5,070.85 | 5,280.47 | 90.83 | Zone 4 |
| J-307 | 10.56 | 5,070.23 | 5,280.57 | 91.14 | Zone 4 |
| J-319 | 8.66 | 5,070.24 | 5,280.62 | 91.15 | Zone 4 |
| J-261 | 3.77 | 5,069.91 | 5,280.49 | 91.25 | Zone 4 |
| J-302 | 7.54 | 5,069.92 | 5,280.61 | 91.29 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,280.60 | 91.35 | Zone 4 |
| J-1233 | 11.65 | 5,049.11 | 5,260.25 | 91.49 | Zone 1 |
| J-611 | 8.15 | 5,049.06 | 5,260.23 | 91.5 | Zone 1 |
| J-1232 | 9.32 | 5,048.93 | 5,260.34 | 91.6 | Zone 1 |
| J-251 | 15.08 | 5,069.14 | 5,280.63 | 91.64 | Zone 4 |
| J-252 | 8.66 | 5,069.06 | 5,280.74 | 91.72 | Zone 4 |
| J-137 | 8.3 | 5,108.67 | 5,320.41 | 91.74 | Zone 3 |
| J-219 | 6.79 | 5,068.69 | 5,280.44 | 91.75 | Zone 4 |
| J-250 | 8.3 | 5,067.75 | 5,280.57 | 92.21 | Zone 4 |
| J-612 | 12.41 | 5,047.26 | 5,260.23 | 92.28 | Zone 1 |
| J-247 | 18.86 | 5,067.68 | 5,280.65 | 92.28 | Zone 4 |
| J-223 | 7.54 | 5,067.34 | 5,280.44 | 92.33 | Zone 4 |
| J-238 | 7.54 | 5,067.17 | 5,280.44 | 92.41 | Zone 4 |
| J-1236 | 4.66 | 5,046.50 | 5,260.34 | 92.66 | Zone 1 |
| J-220 | 7.54 | 5,066.08 | 5,280.44 | 92.88 | Zone 4 |
| J-221 | 7.54 | 5,066.06 | 5,280.44 | 92.89 | Zone 4 |
| J-305 | 9.32 | 5,077.07 | 5,292.92 | 93.53 | Zone 1 |
| J-136 | 21.87 | 5,100.47 | 5,319.55 | 94.93 | Zone 3 |
| J-608 | 0 | 5,064.05 | 5,283.89 | 95.26 | Zone 4 |
| J-304 | 9.32 | 5,072.38 | 5,292.93 | 95.56 | Zone 1 |
| J-49 | 17.47 | 5,042.76 | 5,263.32 | 95.57 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-48 | 17.47 | 5,042.96 | 5,263.56 | 95.59 | Zone 1 |
| J-47 | 13.98 | 5,043.03 | 5,264.03 | 95.76 | Zone 1 |
| J-135 | 25.64 | 5,097.88 | 5,319.62 | 96.08 | Zone 3 |
| J-35 | 12.81 | 5,040.53 | 5,265.38 | 97.43 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,267.33 | 98.01 | Zone 1 |
| J-1252IRP | 14.71 | 5,040.67 | 5,267.16 | 98.14 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,267.33 | 98.38 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,267.33 | 98.45 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,267.33 | 98.61 | Zone 1 |
| J-13 | 9.29 | 5,039.32 | 5,267.34 | 98.8 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,275.43 | 102.96 | Zone 1 |
| J-10 | 9.32 | 5,052.43 | 5,290.72 | 103.25 | Zone 1 |
| J-8 | 9.32 | 5,054.92 | 5,293.92 | 103.56 | Zone 1 |
| J-9 | 9.32 | 5,049.50 | 5,291.85 | 105.01 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,288.69 | 105.7 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,288.59 | 105.71 | Zone 4 |
| J-827 | 0 | 5,042.00 | 5,289.35 | 107.18 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,290.15 | 107.95 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,290.40 | 108.08 | Zone 4 |
| J-11 | 0 | 5,034.44 | 5,284.54 | 108.37 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-587 | J-344 | 2(COLDSPR | 41 | 8 | 140 | 989 | 6.31 | 0.64 | 15.62 | Zone 2 |
| P-322(1) | (COLDSPR | J-1245 | 39 | 8 | 140 | 989 | 6.31 | 0.61 | 15.6 | Zone 1 |
| P-1 | TANK1 | J-1 | 813 | 8 | 120 | 835 | 5.33 | 12.34 | 15.17 | Zone 4 |
| P-26 | J-23 | ERTOWNCA | 2116 | 8 | 140 | 763 | 4.87 | 20.41 | 9.65 | Zone 3 |
| P-423 | J-242 | ERPUMPST | 50 | 6 | 140 | 420 | 4.76 | 0.65 | 12.95 | Zone 1 |
| P-424 | ERPUMPST | J-243 | 126 | 6 | 140 | 420 | 4.76 | 1.64 | 12.95 | Zone 1 |
| P-333 | J-136 | AXWINGRE | 306 | 6 | 140 | 416 | 4.72 | 3.89 | 12.73 | Zone 1 |
| P-332 | AXWINGRE | J-127 | 335 | 6 | 140 | 416 | 4.72 | 4.27 | 12.73 | Zone 4 |
| P-318 | WELL6 | J-192 | 602 | 8 | 140 | 707 | 4.51 | 5.04 | 8.37 | Zone 4 |
| P-586 | J-36 | J-344 | 56 | 8 | 140 | 701 | 4.48 | 0.46 | 8.25 | Zone 4 |
| 322(2) | J-1245 | J-1246 | 454 | 8 | 140 | 701 | 4.48 | 3.75 | 8.26 | Zone 1 |
| P-317 | J-192 | J-3 | 1062 | 12 | 120 | 1,536 | 4.36 | 6.91 | 6.51 | Zone 1 |
| P-4(1) | J-3 | J-1262 | 234 | 12 | 120 | 1,536 | 4.36 | 1.52 | 6.51 | Zone 1 |
| P-4(2) | J-1262 | J-4 | 263 | 12 | 120 | 1,531 | 4.34 | 1.7 | 6.47 | Zone 2 |
| P-676 | J-388 | J-23 | 519 | 10 | 140 | 984 | 4.02 | 2.71 | 5.21 | Zone 2 |
| P-40 | J-13 | J-35 | 302 | 8 | 140 | 614 | 3.92 | 1.95 | 6.46 | Zone 2 |
| P-1326 | NDYKEWEL | ANDYKEWE | 83 | 10 | 140 | 891 | 3.64 | 0.36 | 4.34 | Zone 1 |
| P-1324 | ANDYKEWE | J-797 | 45 | 10 | 140 | 891 | 3.64 | 0.19 | 4.33 | Zone 1 |
| P-1325 | R-5 | NDYKEWEL | 28 | 10 | 140 | 891 | 3.64 | 0.12 | 4.33 | Zone 2 |
| P-1965 | WELL1 | J-826 | 79 | 8 | 140 | 570 | 3.64 | 0.45 | 5.62 | Zone 1 |
| P-1393 | J-828 | J-827 | 141 | 8 | 140 | 570 | 3.64 | 0.79 | 5.62 | Zone 2 |
| P-1392 | J-826 | J-828 | 46 | 8 | 140 | 570 | 3.64 | 0.26 | 5.62 | Zone 1 |
| P-982 | J-49 | J-612 | 583 | 8 | 140 | 553 | 3.53 | 3.1 | 5.31 | Zone 1 |
| P-985 | J-612 | J-36 | 165 | 8 | 140 | 532 | 3.4 | 0.82 | 4.95 | Zone 4 |
| P-331 | J-4 | J-189 | 218 | 8 | 140 | 532 | 3.39 | 1.08 | 4.95 | Zone 1 |
| P-965 | J-596 | J-595 | 86 | 10 | 140 | 757 | 3.09 | 0.28 | 3.21 | Zone 1 |
| P-27 | ERTOWNCA | J-25 | 506 | 10 | 140 | 757 | 3.09 | 1.62 | 3.21 | Zone 1 |
| P-963 | J-25 | J-596 | 123 | 10 | 140 | 757 | 3.09 | 0.39 | 3.21 | Zone 1 |
| P-57 | J-35 | J-49 | 497 | 8 | 140 | 484 | 3.09 | 2.06 | 4.15 | Zone 2 |
| P-962 | J-595 | J-592 | 260 | 10 | 140 | 753 | 3.08 | 0.83 | 3.17 | Zone 1 |
| P-673 | J-189 | J-387 | 352 | 4 | 140 | 118 | 3.02 | 3.14 | 8.94 | Zone 1 |
| P-576 | J-331 | J-337 | 264 | 8 | 140 | 470 | 3 | 1.04 | 3.93 | Zone 1 |
| P-1320 | J-797 | J-54 | 442 | 8 | 110 | 449 | 2.87 | 2.5 | 5.65 | Zone 2 |
| P-112 | J-80 | J-33 | 816 | 10 | 140 | 690 | 2.82 | 2.2 | 2.7 | Zone 4 |
| P-675 | J-4 | J-388 | 2121 | 12 | 140 | 984 | 2.79 | 4.55 | 2.15 | Zone 4 |
| P-419 | J-242 | TANK4 | 92 | 14 | 140 | -1,312 | 2.73 | 0.16 | 1.72 | Zone 4 |
| P-1321 | J-797 | J-63 | 1141 | 8 | 110 | 425 | 2.71 | 5.83 | 5.11 | Zone 4 |
| P-337 | J-189 | J-190 | 480 | 8 | 140 | 414 | 2.64 | 1.49 | 3.1 | Zone 4 |
| P-338 | J-190 | J-191 | 267 | 8 | 140 | 414 | 2.64 | 0.83 | 3.1 | Zone 1 |
| P-11 | J-10 | J-11 | 1692 | 10 | 110 | 638 | 2.61 | 6.19 | 3.66 | Zone 1 |
| P-13 | J-12 | J-13 | 2214 | 10 | 110 | 638 | 2.61 | 8.1 | 3.66 | Zone 1 |
| P-12 | J-11 | J-12 | 2490 | 10 | 110 | 638 | 2.61 | 9.1 | 3.66 | Zone 1 |
| 322(2) | J-1246 | J-53 | 215 | 8 | 140 | 388 | 2.48 | 0.59 | 2.76 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-69 | J-54 | J-55 | 485 | 6 | 140 | 216 | 2.45 | 1.83 | 3.77 | Zone 1 |
| P-534 | J-289 | J-304 | 401 | 8 | 140 | 375 | 2.39 | 1.04 | 2.58 | Zone 1 |
| P-2 | J-1 | J-2 | 910 | 12 | 120 | 835 | 2.37 | 1.92 | 2.11 | Zone 1 |
| P-316 | J-2 | J-192 | 912 | 12 | 120 | 835 | 2.37 | 1.92 | 2.11 | Zone 2 |
| P-1391 | J-827 | J-795 | 352 | 10 | 140 | 570 | 2.33 | 0.67 | 1.9 | Zone 2 |
| P-1319 | J-795 | J-609 | 50 | 10 | 140 | 570 | 2.33 | 0.09 | 1.9 | Zone 1 |
| P-1310 | R-3 | WELL1 | 32 | 10 | 140 | 570 | 2.33 | 0.06 | 1.89 | Zone 4 |
| P-139 | J-609 | J-608 | 2481 | 10 | 140 | 570 | 2.33 | 4.7 | 1.9 | Zone 1 |
| P-138 | J-608 | J-252 | 1660 | 10 | 140 | 570 | 2.33 | 3.15 | 1.9 | Zone 4 |
| P-178 | J-53 | J-112 | 531 | 6 | 140 | 204 | 2.32 | 1.81 | 3.41 | Zone 1 |
| P-770 | J-28 | J-331 | 185 | 10 | 140 | 565 | 2.31 | 0.34 | 1.87 | Zone 1 |
| P-30 | J-27 | J-28 | 1146 | 10 | 140 | 565 | 2.31 | 2.14 | 1.87 | Zone 1 |
| P-961 | J-594 | J-27 | 683 | 10 | 140 | 565 | 2.31 | 1.27 | 1.87 | Zone 1 |
| P-409 | J-33 | TANK2 | 1804 | 10 | 140 | 559 | 2.28 | 3.3 | 1.83 | Zone 1 |
| P-533 | J-304 | J-9 | 460 | 8 | 140 | 356 | 2.27 | 1.08 | 2.35 | Zone 2 |
| P-315 | WELL7 | WELL6 | 1186 | 8 | 140 | 338 | 2.16 | 2.53 | 2.13 | Zone 2 |
| P1581 | J-1246 | J-1298 | 1570 | 8 | 140 | 313 | 2 | 2.91 | 1.86 | Zone 3 |
| P1582 | J-1298 | J-1299 | 239 | 8 | 140 | 313 | 2 | 0.44 | 1.86 | Zone 4 |
| P-1233 | J-760 | J-242 | 1317 | 14 | 130 | -892 | 1.86 | 1.28 | 0.97 | Zone 2 |
| P-1228 | J-241 | J-760 | 13 | 14 | 140 | -852 | 1.78 | 0.01 | 0.77 | Zone 2 |
| P-984 | J-9 | J-10 | 987 | 10 | 140 | 433 | 1.77 | 1.13 | 1.14 | Zone 4 |
| P-508 | J-191 | J-289 | 824 | 8 | 140 | 275 | 1.75 | 1.2 | 1.46 | Zone 1 |
| P-421 | J-243 | J-237 | 1148 | 10 | 140 | 424 | 1.73 | 1.26 | 1.1 | Zone 2 |
| P-398 | J-237 | J-185 | 279 | 10 | 140 | 418 | 1.71 | 0.3 | 1.07 | Zone 1 |
| P-147 | J-43 | J-101 | 346 | 8 | 140 | 267 | 1.71 | 0.48 | 1.38 | Zone 2 |
| P-299 | J-185 | J-140 | 377 | 10 | 140 | 413 | 1.69 | 0.39 | 1.04 | Zone 4 |
| P-153 | J-57 | J-102 | 374 | 6 | 140 | 144 | 1.64 | 0.67 | 1.8 | Zone 4 |
| P1629 | J-1299 | J-1339 | 155 | 6 | 140 | 144 | 1.64 | 0.28 | 1.8 | Zone 2 |
| P-148 | J-101 | J-44 | 342 | 8 | 140 | 243 | 1.55 | 0.4 | 1.16 | Zone 4 |
| P-677 | J-184 | J-389 | 93 | 8 | 140 | -236 | 1.51 | 0.1 | 1.1 | Zone 2 |
| P1631 | J-1339 | J-1315-1 | 171 | 6 | 140 | 131 | 1.48 | 0.25 | 1.49 | Zone 4 |
| P-582 | J-337 | J-341 | 296 | 8 | 140 | 232 | 1.48 | 0.31 | 1.06 | Zone 2 |
| P-191 | J-128 | J-127 | 451 | 8 | 140 | -231 | 1.48 | 0.48 | 1.06 | Zone 2 |
| P-73 | J-58 | J-43 | 392 | 8 | 140 | 230 | 1.47 | 0.41 | 1.05 | Zone 2 |
| P-777(1) | WELL8 | J-23-1222 | 78 | 10 | 140 | 357 | 1.46 | 0.06 | 0.8 | Zone 2 |
| P-67 | J-54 | J-15 | 955 | 8 | 110 | 228 | 1.46 | 1.54 | 1.61 | Zone 4 |
| P-584 | J-342 | J-339 | 195 | 8 | 140 | 222 | 1.42 | 0.19 | 0.98 | Zone 2 |
| P-583 | J-341 | J-342 | 233 | 8 | 140 | 222 | 1.42 | 0.23 | 0.98 | Zone 2 |
| P-776 | J-337 | J-158 | 1465 | 8 | 140 | 221 | 1.41 | 1.42 | 0.97 | Zone 3 |
| P-48 | J-15 | J-42 | 331 | 8 | 110 | 217 | 1.39 | 0.49 | 1.47 | Zone 1 |
| P-823 | J-480 | J-241 | 184 | 14 | 140 | -662 | 1.38 | 0.09 | 0.48 | Zone 1 |
| P-579 | J-339 | J-161 | 418 | 8 | 140 | 214 | 1.37 | 0.38 | 0.92 | Zone 1 |
| P-259(1) | J-158 | J-1242 | 44 | 8 | 140 | 213 | 1.36 | 0.04 | 0.91 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|---------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-259(2) | J-1242 | J-165 | 357 | 8 | 140 | 213 | 1.36 | 0.33 | 0.91 | Zone 2 |
| P-206 | J-137 | J-136 | 1236 | 10 | 140 | 332 | 1.36 | 0.86 | 0.7 | Zone 4 |
| P-447 | J-42 | J-255 | 249 | 8 | 140 | 212 | 1.35 | 0.22 | 0.9 | Zone 4 |
| P-55 | J-35 | J-47 | 1098 | 6 | 140 | 118 | 1.34 | 1.35 | 1.23 | Zone 2 |
| P-824 | J-398 | J-480 | 112 | 14 | 140 | -640 | 1.33 | 0.05 | 0.46 | Zone 1 |
| P-1346 | J-50 | J-58 | 384 | 8 | 140 | 209 | 1.33 | 0.34 | 0.88 | Zone 1 |
| P-826 | J-395 | J-481 | 114 | 14 | 140 | -619 | 1.29 | 0.05 | 0.43 | Zone 1 |
| P-49 | J-37 | J-43 | 847 | 6 | 140 | 112 | 1.27 | 0.94 | 1.12 | Zone 1 |
| P-187 | J-125 | J-80 | 165 | 10 | 140 | 310 | 1.27 | 0.1 | 0.61 | Zone 1 |
| P-825 | J-481 | J-398 | 175 | 14 | 140 | -600 | 1.25 | 0.07 | 0.4 | Zone 4 |
| P-959 | J-592 | J-589 | 340 | 10 | 140 | 305 | 1.25 | 0.2 | 0.6 | Zone 4 |
| P-966 | J-597 | J-594 | 185 | 10 | 140 | 304 | 1.24 | 0.11 | 0.59 | Zone 4 |
| P-1345 | J-255 | J-50 | 228 | 8 | 140 | 193 | 1.23 | 0.17 | 0.76 | Zone 2 |
| P-260 | J-165 | J-163 | 364 | 8 | 140 | 189 | 1.21 | 0.26 | 0.73 | Zone 4 |
| P-146 | J-100 | J-91 | 441 | 6 | 140 | 106 | 1.2 | 0.44 | 1.01 | Zone 1 |
| P-84 | J-63 | J-40 | 1489 | 10 | 140 | 289 | 1.18 | 0.8 | 0.54 | Zone 1 |
| P-56 | J-47 | J-48 | 478 | 6 | 140 | 104 | 1.18 | 0.47 | 0.98 | Zone 2 |
| P-1545 | DRIVEBPS | J-344 | 112 | 10 | 140 | 288 | 1.18 | 0.06 | 0.53 | Zone 2 |
| P-76 | J-55 | J-59 | 544 | 6 | 140 | 103 | 1.16 | 0.52 | 0.95 | Zone 1 |
| P-70 | J-55 | J-56 | 484 | 6 | 140 | 102 | 1.16 | 0.46 | 0.94 | Zone 1 |
| P-698 | J-399 | J-395 | 172 | 14 | 140 | -542 | 1.13 | 0.06 | 0.33 | Zone 4 |
| P-210 | J-140 | J-141 | 864 | 10 | 140 | 274 | 1.12 | 0.42 | 0.49 | Zone 1 |
| P-257 | J-163 | J-164 | 392 | 8 | 140 | 174 | 1.11 | 0.24 | 0.62 | Zone 1 |
| P-957 | J-591 | J-385 | 669 | 10 | 140 | 270 | 1.1 | 0.32 | 0.48 | Zone 4 |
| P-958 | J-589 | J-591 | 197 | 10 | 140 | 270 | 1.1 | 0.09 | 0.48 | Zone 2 |
| P-151 | J-102 | J-38 | 876 | 6 | 140 | 97 | 1.1 | 0.75 | 0.86 | Zone 1 |
| P-978 | J-592 | J-606 | 661 | 8 | 140 | 171 | 1.09 | 0.4 | 0.6 | Zone 4 |
| P-190 | J-127 | J-126 | 887 | 8 | 140 | 171 | 1.09 | 0.53 | 0.6 | Zone 4 |
| P-370 | J-146 | J-217 | 267 | 8 | 140 | 170 | 1.08 | 0.16 | 0.6 | Zone 4 |
| P-433 | J-137 | J-217 | 151 | 8 | 140 | -170 | 1.08 | 0.09 | 0.6 | Zone 4 |
| P-1035 | J-592 | J-644 | 567 | 10 | 140 | 262 | 1.07 | 0.25 | 0.45 | Zone 1 |
| P-964 | J-385 | J-594 | 655 | 10 | 140 | 261 | 1.07 | 0.29 | 0.45 | Zone 1 |
| P-152 | J-102 | J-100 | 351 | 6 | 140 | 94 | 1.06 | 0.28 | 0.81 | Zone 1 |
| P-75 | J-59 | J-57 | 486 | 6 | 140 | 93 | 1.06 | 0.39 | 0.8 | Zone 4 |
| P-1307 | R-2 | WELL6_P | 16 | 12 | 140 | 369 | 1.05 | 0.01 | 0.36 | Zone 4 |
| P-1306 | WELL6_P | WELL6 | 31 | 12 | 140 | 369 | 1.05 | 0.01 | 0.35 | Zone 2 |
| P-1173 | J-730 | J-732 | 51 | 6 | 140 | -91 | 1.03 | 0.04 | 0.77 | Zone 3 |
| P-1174 | J-732 | J-688 | 219 | 6 | 140 | -91 | 1.03 | 0.17 | 0.77 | Zone 2 |
| P-1312 | R-4 | WELL8_P | 15 | 12 | 140 | 357 | 1.01 | 0 | 0.32 | Zone 4 |
| P-1313 | WELL8_P | WELL8 | 18 | 12 | 140 | 357 | 1.01 | 0.01 | 0.32 | Zone 4 |
| P-530 | J-252 | J-302 | 325 | 10 | 140 | 247 | 1.01 | 0.13 | 0.4 | Zone 1 |
| P-258 | J-164 | J-154 | 602 | 8 | 140 | 158 | 1.01 | 0.31 | 0.52 | Zone 2 |
| P-189 | J-126 | J-125 | 506 | 8 | 140 | 156 | 0.99 | 0.26 | 0.51 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|------------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P1583 | J-1299 | J-1340 | 173 | 8 | 140 | 155 | 0.99 | 0.09 | 0.51 | Zone 4 |
| P-1037 | J-645 | J-646 | 444 | 10 | 140 | 242 | 0.99 | 0.17 | 0.39 | Zone 1 |
| P-1036 | J-644 | J-645 | 470 | 10 | 140 | 242 | 0.99 | 0.18 | 0.39 | Zone 1 |
| P-975 | J-606 | J-604 | 482 | 8 | 140 | 155 | 0.99 | 0.24 | 0.5 | Zone 4 |
| P-9 | J-8 | J-9 | 2237 | 6 | 120 | 87 | 0.98 | 2.08 | 0.93 | Zone 4 |
| P-680 | J-389 | J-390 | 376 | 10 | 140 | -239 | 0.98 | 0.14 | 0.38 | Zone 4 |
| P-71 | J-56 | J-57 | 665 | 6 | 140 | 85 | 0.97 | 0.45 | 0.68 | Zone 4 |
| P-1304 | WELL7_P | WELL7 | 20 | 12 | 140 | 338 | 0.96 | 0.01 | 0.31 | Zone 4 |
| P-1303 | R-1 | WELL7_P | 32 | 12 | 140 | 338 | 0.96 | 0.01 | 0.29 | Zone 4 |
| P1647 | J-1338 | J-1315-1 | 219 | 6 | 140 | -84 | 0.95 | 0.14 | 0.66 | Zone 4 |
| P-974 | J-604 | J-597 | 338 | 8 | 140 | 148 | 0.94 | 0.16 | 0.46 | Zone 4 |
| P-699 | J-391 | J-399 | 143 | 12 | 140 | -332 | 0.94 | 0.04 | 0.29 | Zone 4 |
| P-110 | J-78 | J-80 | 186 | 10 | 140 | 222 | 0.91 | 0.06 | 0.33 | Zone 4 |
| P-253 | J-162 | J-158 | 377 | 8 | 140 | 142 | 0.91 | 0.16 | 0.43 | Zone 1 |
| 1623-1 | J-1340 | J-1335 | 99 | 8 | 140 | 142 | 0.9 | 0.04 | 0.43 | Zone 1 |
| P-827 | J-482 | J-391 | 159 | 12 | 140 | -318 | 0.9 | 0.04 | 0.27 | Zone 1 |
| P-777(2) | J-23-1222 | J-423 | 817 | 10 | 140 | 218 | 0.89 | 0.26 | 0.32 | Zone 1 |
| P-1505 | J-23-1220 | J-23-1221 | 107 | 8 | 140 | -139 | 0.89 | 0.04 | 0.41 | Zone 4 |
| P-1506 | J-23-1221 | J-23-1222 | 86 | 8 | 140 | -139 | 0.89 | 0.04 | 0.41 | Zone 4 |
| P-1504 | J-23-1219 | J-23-1220 | 71 | 8 | 140 | -139 | 0.89 | 0.03 | 0.41 | Zone 4 |
| P-25 | J-23 | J-10 | 1879 | 10 | 140 | 214 | 0.88 | 0.58 | 0.31 | Zone 2 |
| P-1543 | J-1234 | J-36 | 1537 | 6 | 150 | 77 | 0.87 | 0.76 | 0.49 | Zone 4 |
| P-1038 | J-646 | J-647 | 363 | 10 | 140 | 212 | 0.86 | 0.11 | 0.3 | Zone 2 |
| 1502(1) | J-23-1215 | J-23-1219 | 81 | 8 | 140 | -135 | 0.86 | 0.03 | 0.39 | Zone 2 |
| P-1216 | J-758 | J-399 | 325 | 10 | 140 | -210 | 0.86 | 0.1 | 0.3 | Zone 4 |
| P-1501 | J-23-1214 | J-23-1215 | 41 | 8 | 140 | -134 | 0.85 | 0.02 | 0.39 | Zone 2 |
| P-1500 | J-23-1213 | J-23-1214 | 49 | 8 | 140 | -133 | 0.85 | 0.02 | 0.38 | Zone 1 |
| P-335 | RACOBOOS | J-135 | 176 | 8 | 140 | 131 | 0.84 | 0.06 | 0.37 | Zone 4 |
| P-334 | J-33 | RACOBOOS | 411 | 8 | 140 | 131 | 0.84 | 0.15 | 0.37 | Zone 4 |
| P-1215 | J-757 | J-758 | 424 | 10 | 140 | -203 | 0.83 | 0.12 | 0.28 | Zone 4 |
| P-1499 | J22-882 | J-23-1213 | 278 | 8 | 140 | -128 | 0.82 | 0.1 | 0.36 | Zone 4 |
| P-1544 | J-1245 | SDRIVEBPS | 110 | 12 | 140 | 288 | 0.82 | 0.02 | 0.22 | Zone 1 |
| P1514 | J-158 | J-1230 | 340 | 8 | 140 | 126 | 0.8 | 0.12 | 0.34 | Zone 4 |
| P-214 | J-141 | J-145 | 339 | 10 | 140 | 196 | 0.8 | 0.09 | 0.26 | Zone 2 |
| P-342 | J-195 | J-184 | 195 | 8 | 140 | -125 | 0.8 | 0.07 | 0.34 | Zone 2 |
| 22-N-7 | J22-1175 | J22-882 | 16 | 8 | 140 | -125 | 0.8 | 0.01 | 0.34 | Zone 4 |
| 22-N-7 | J22-1089 | J22-1175 | 32 | 8 | 140 | -125 | 0.8 | 0.01 | 0.33 | Zone 4 |
| P-1120 | J-482 | J-679 | 119 | 6 | 140 | 70 | 0.8 | 0.06 | 0.47 | Zone 4 |
| P-1082 | FH-926 | J-685 | 330 | 10 | 140 | -195 | 0.8 | 0.09 | 0.26 | Zone 4 |
| P-1094 | J-685 | FH-925 | 120 | 10 | 140 | -195 | 0.8 | 0.03 | 0.26 | Zone 2 |
| P-1090 | J-675 | FH-927 | 59 | 10 | 140 | -195 | 0.8 | 0.02 | 0.26 | Zone 1 |
| P-1213 | J-PH19IRR1 | J-757 | 62 | 10 | 140 | -195 | 0.8 | 0.02 | 0.27 | Zone 1 |
| P-1095 | FH-925 | J-PH19IRR1 | 190 | 10 | 140 | -195 | 0.8 | 0.05 | 0.26 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|---------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1091 | FH-927 | FH-926 | 303 | 10 | 140 | -195 | 0.8 | 0.08 | 0.26 | Zone 4 |
| P-693 | J-392 | J-396 | 462 | 10 | 140 | -194 | 0.79 | 0.12 | 0.26 | Zone 1 |
| P-339 | J-191 | J-193 | 847 | 8 | 140 | 124 | 0.79 | 0.28 | 0.33 | Zone 2 |
| P-1191 | J-743 | J-742 | 132 | 10 | 140 | -190 | 0.78 | 0.03 | 0.25 | Zone 4 |
| P-1189 | J-742 | J-241 | 118 | 10 | 140 | -190 | 0.78 | 0.03 | 0.25 | Zone 4 |
| P-438 | J-252 | J-251 | 442 | 10 | 140 | 190 | 0.77 | 0.11 | 0.25 | Zone 4 |
| P1519 | J-1230 | J-1231 | 192 | 8 | 140 | 121 | 0.77 | 0.06 | 0.32 | Zone 4 |
| P-307 | J-140 | J-187 | 352 | 8 | 140 | 119 | 0.76 | 0.11 | 0.31 | Zone 4 |
| P-429 | J-139 | J-248 | 390 | 8 | 140 | 119 | 0.76 | 0.12 | 0.31 | Zone 1 |
| P-306 | J-187 | J-139 | 355 | 8 | 140 | 119 | 0.76 | 0.11 | 0.31 | Zone 4 |
| P-674 | J-387 | J-306 | 465 | 8 | 140 | 118 | 0.75 | 0.14 | 0.3 | Zone 4 |
| P-685 | J-390 | J-392 | 472 | 10 | 140 | -183 | 0.75 | 0.11 | 0.23 | Zone 2 |
| P-93 | J-71 | J-70 | 252 | 8 | 140 | 117 | 0.75 | 0.08 | 0.3 | Zone 1 |
| P-83 | J-63 | J-16 | 1068 | 8 | 110 | 117 | 0.75 | 0.5 | 0.47 | Zone 4 |
| P-1040 | J-647 | J-597 | 339 | 10 | 140 | 182 | 0.75 | 0.08 | 0.23 | Zone 4 |
| P-193 | J-129 | J-65 | 229 | 8 | 140 | 117 | 0.74 | 0.07 | 0.3 | Zone 4 |
| P-192 | J-128 | J-129 | 503 | 8 | 140 | 117 | 0.74 | 0.15 | 0.3 | Zone 1 |
| P-1192 | J-396 | J-743 | 405 | 10 | 140 | -182 | 0.74 | 0.09 | 0.23 | Zone 4 |
| P-343 | J-196 | J-195 | 273 | 8 | 140 | -116 | 0.74 | 0.08 | 0.3 | Zone 3 |
| P-255 | J-161 | J-162 | 474 | 8 | 140 | 115 | 0.74 | 0.14 | 0.29 | Zone 4 |
| P-150 | J-43 | J-102 | 570 | 6 | 140 | 65 | 0.74 | 0.23 | 0.41 | Zone 4 |
| P-764 | J-441 | J-346 | 520 | 6 | 140 | -65 | 0.73 | 0.21 | 0.4 | Zone 3 |
| P-340 | J-193 | J-5 | 1510 | 8 | 140 | 115 | 0.73 | 0.44 | 0.29 | Zone 4 |
| P-344 | J-197 | J-196 | 183 | 8 | 140 | -113 | 0.72 | 0.05 | 0.28 | Zone 4 |
| P-169 | J-112 | J-113 | 344 | 8 | 140 | 112 | 0.71 | 0.09 | 0.28 | Zone 1 |
| P1518 | J-1231 | J-1232 | 454 | 8 | 140 | 112 | 0.71 | 0.13 | 0.28 | Zone 1 |
| P-436 | J-251 | J-250 | 302 | 10 | 140 | 175 | 0.71 | 0.06 | 0.21 | Zone 3 |
| P-65 | J-53 | J-37 | 607 | 8 | 140 | 112 | 0.71 | 0.17 | 0.27 | Zone 1 |
| P-97 | J-70 | J-74 | 290 | 8 | 140 | 110 | 0.7 | 0.08 | 0.27 | Zone 1 |
| P-828 | J-352 | J-482 | 141 | 12 | 140 | -248 | 0.7 | 0.02 | 0.17 | Zone 4 |
| P-529 | J-302 | J-300 | 262 | 10 | 140 | 172 | 0.7 | 0.05 | 0.21 | Zone 2 |
| P-345 | J-198 | J-197 | 215 | 8 | 140 | -110 | 0.7 | 0.06 | 0.26 | Zone 4 |
| P-217 | J-144 | J-137 | 669 | 10 | 140 | 171 | 0.7 | 0.14 | 0.2 | Zone 1 |
| P-536 | J-306 | J-290 | 170 | 8 | 140 | 109 | 0.7 | 0.04 | 0.26 | Zone 4 |
| P-507 | J-290 | J-289 | 725 | 8 | 140 | 109 | 0.7 | 0.19 | 0.26 | Zone 4 |
| P-938 | J-483 | J-576 | 490 | 6 | 140 | 61 | 0.7 | 0.18 | 0.37 | Zone 2 |
| P-431 | J-248 | J-138 | 76 | 8 | 140 | 109 | 0.69 | 0.02 | 0.26 | Zone 1 |
| P-219 | J-146 | J-138 | 387 | 8 | 140 | -109 | 0.69 | 0.1 | 0.26 | Zone 4 |
| P-475 | J-113 | J-274 | 337 | 8 | 140 | 108 | 0.69 | 0.09 | 0.26 | Zone 4 |
| P-122 | J-87 | J-78 | 186 | 10 | 140 | 169 | 0.69 | 0.04 | 0.2 | Zone 4 |
| P-434 | J-250 | J-246 | 311 | 10 | 140 | 166 | 0.68 | 0.06 | 0.19 | Zone 4 |
| P-188 | J-65 | J-125 | 379 | 8 | 140 | 106 | 0.68 | 0.1 | 0.25 | Zone 4 |
| P-1141 | J-714 | J-671 | 95 | 6 | 140 | -59 | 0.67 | 0.03 | 0.34 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-------------|-------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-6 | J-5 | J-6 | 888 | 8 | 120 | 105 | 0.67 | 0.29 | 0.33 | Zone 2 |
| P-1546 | J-706 | J-1252IRR | 196 | 3 | 130 | 15 | 0.67 | 0.17 | 0.88 | Zone 1 |
| P-216 | J-145 | J-144 | 352 | 10 | 140 | 160 | 0.66 | 0.06 | 0.18 | Zone 1 |
| P-1098 | FH-922 | J-677 | 233 | 6 | 140 | 58 | 0.65 | 0.08 | 0.33 | Zone 1 |
| P-1099 | J-678 | FH-922 | 76 | 6 | 140 | 58 | 0.65 | 0.02 | 0.33 | Zone 4 |
| P-1100 | J-679 | FH-921 | 205 | 6 | 140 | 58 | 0.65 | 0.07 | 0.33 | Zone 4 |
| P-1101 | FH-921 | J-678 | 237 | 6 | 140 | 58 | 0.65 | 0.08 | 0.33 | Zone 4 |
| P-500 | J-184 | J-286 | 308 | 8 | 140 | 102 | 0.65 | 0.07 | 0.23 | Zone 4 |
| P-128 | J-93 | J-80 | 1094 | 10 | 140 | 158 | 0.64 | 0.19 | 0.18 | Zone 2 |
| P-763 | J-283 | J-441 | 307 | 6 | 140 | -56 | 0.64 | 0.1 | 0.31 | Zone 2 |
| -N-15-1 | J22-1088 | J22-IRR-117 | 50 | 10 | 140 | -155 | 0.63 | 0.01 | 0.17 | Zone 4 |
| -N-15-2 | J22-IRR-117 | J22-1089 | 276 | 10 | 140 | -155 | 0.63 | 0.05 | 0.17 | Zone 4 |
| P-194 | J-130 | J-128 | 482 | 8 | 140 | -99 | 0.63 | 0.11 | 0.22 | Zone 4 |
| P-66 | J-53 | J-52 | 328 | 6 | 140 | 56 | 0.63 | 0.1 | 0.31 | Zone 4 |
| P-766 | J-442 | J-348 | 605 | 6 | 140 | -55 | 0.63 | 0.18 | 0.31 | Zone 4 |
| P1517 | J-1232 | J-1233 | 438 | 8 | 140 | 98 | 0.63 | 0.09 | 0.22 | Zone 4 |
| P-552 | J-318 | J-311 | 307 | 8 | 140 | 97 | 0.62 | 0.06 | 0.21 | Zone 4 |
| P-8 | J-6 | J-8 | 834 | 8 | 120 | 96 | 0.61 | 0.23 | 0.28 | Zone 2 |
| P-1102 | J-576 | J-570 | 779 | 6 | 140 | 52 | 0.59 | 0.21 | 0.27 | Zone 2 |
| 2-N-15 | J22-1087 | J22-1088 | 349 | 10 | 140 | -144 | 0.59 | 0.05 | 0.15 | Zone 1 |
| P-320 | J-154 | J-36 | 265 | 8 | 140 | 92 | 0.59 | 0.05 | 0.19 | Zone 4 |
| P-561 | J-281 | J-325 | 267 | 8 | 140 | 92 | 0.58 | 0.05 | 0.19 | Zone 4 |
| P-492 | J-283 | J-281 | 270 | 8 | 140 | 90 | 0.58 | 0.05 | 0.18 | Zone 4 |
| P-262 | J-161 | J-166 | 304 | 8 | 140 | 89 | 0.56 | 0.05 | 0.18 | Zone 2 |
| P-768 | J-443 | J-352 | 684 | 6 | 140 | -49 | 0.56 | 0.17 | 0.25 | Zone 2 |
| P-63 | J-52 | J-51 | 545 | 6 | 140 | 49 | 0.56 | 0.13 | 0.24 | Zone 4 |
| P-1068 | J-669 | J-670 | 75 | 6 | 140 | 49 | 0.55 | 0.02 | 0.24 | Zone 4 |
| P-59 | J-48 | J-49 | 1409 | 8 | 140 | 86 | 0.55 | 0.24 | 0.17 | Zone 2 |
| P1516-2 | J-1233 | J-1322 | 476 | 8 | 140 | 86 | 0.55 | 0.08 | 0.17 | Zone 1 |
| P-195 | J-131 | J-130 | 527 | 8 | 140 | -85 | 0.54 | 0.09 | 0.16 | Zone 1 |
| P1623-2 | J-1335 | J-1342 | 150 | 8 | 140 | 84 | 0.54 | 0.02 | 0.16 | Zone 2 |
| P-829 | J-483 | J-352 | 144 | 12 | 140 | -189 | 0.54 | 0.01 | 0.1 | Zone 2 |
| P-751 | J-286 | J-438 | 718 | 6 | 140 | 47 | 0.54 | 0.16 | 0.23 | Zone 4 |
| P-765 | J-284 | J-442 | 439 | 6 | 140 | -47 | 0.53 | 0.1 | 0.22 | Zone 4 |
| P-121 | J-64 | J-87 | 649 | 10 | 140 | 130 | 0.53 | 0.08 | 0.12 | Zone 3 |
| P-1066 | J-449 | J-673 | 230 | 8 | 140 | 81 | 0.52 | 0.03 | 0.15 | Zone 4 |
| P-1067 | J-673 | J-654 | 180 | 8 | 140 | 81 | 0.52 | 0.03 | 0.15 | Zone 4 |
| P-1108 | FH-919 | J-570 | 65 | 6 | 140 | -45 | 0.51 | 0.01 | 0.2 | Zone 1 |
| P-525 | J-298 | J-300 | 268 | 10 | 140 | -125 | 0.51 | 0.03 | 0.11 | Zone 4 |
| P-439 | J-252 | J-247 | 822 | 10 | 140 | 124 | 0.51 | 0.09 | 0.11 | Zone 4 |
| P-1235 | J-656 | J-761 | 254 | 8 | 140 | 78 | 0.5 | 0.04 | 0.14 | Zone 4 |
| P1637 | J-1335 | J-1314-1 | 5071 | 6 | 140 | 44 | 0.5 | 1 | 0.2 | Zone 4 |
| P-749 | J-284 | J-437 | 759 | 6 | 140 | 44 | 0.5 | 0.15 | 0.2 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1084 | J-687 | J-675 | 169 | 10 | 140 | -122 | 0.5 | 0.02 | 0.11 | Zone 4 |
| P-1085 | J-688 | J-687 | 154 | 10 | 140 | -122 | 0.5 | 0.02 | 0.11 | Zone 4 |
| P1516-1 | J-1322 | J-1234 | 17 | 8 | 140 | 77 | 0.49 | 0 | 0.11 | Zone 4 |
| P-85 | J-40 | J-64 | 738 | 10 | 140 | 119 | 0.48 | 0.08 | 0.1 | Zone 4 |
| P-1097 | J-677 | FH-923 | 73 | 6 | 140 | 43 | 0.48 | 0.01 | 0.19 | Zone 1 |
| P-1096 | FH-923 | J-676 | 284 | 6 | 140 | 43 | 0.48 | 0.05 | 0.19 | Zone 2 |
| P-1092 | J-674 | FH-924 | 47 | 6 | 140 | -43 | 0.48 | 0.01 | 0.19 | Zone 4 |
| P-1093 | FH-924 | J-676 | 209 | 6 | 140 | -43 | 0.48 | 0.04 | 0.19 | Zone 4 |
| P1587 | J-1304 | J-1301 | 5075 | 6 | 140 | -42 | 0.48 | 0.94 | 0.19 | Zone 4 |
| P-91 | J-16 | J-71 | 556 | 10 | 110 | 117 | 0.48 | 0.09 | 0.16 | Zone 2 |
| P-1080 | J-683 | FH-929 | 299 | 6 | 140 | -42 | 0.48 | 0.05 | 0.18 | Zone 2 |
| P-1079 | FH-929 | J-681 | 259 | 6 | 140 | -42 | 0.48 | 0.05 | 0.18 | Zone 4 |
| P-767 | J-286 | J-443 | 581 | 6 | 140 | -42 | 0.48 | 0.11 | 0.18 | Zone 4 |
| P-134 | J-44 | ESELEMSCH | 892 | 10 | 140 | 115 | 0.47 | 0.09 | 0.1 | Zone 4 |
| P-1049 | J-654 | J-656 | 264 | 8 | 140 | 73 | 0.47 | 0.03 | 0.13 | Zone 4 |
| P1645 | J-1338 | J-1329 | 252 | 6 | 140 | 41 | 0.46 | 0.04 | 0.17 | Zone 4 |
| P-499 | J-286 | J-284 | 253 | 8 | 140 | 73 | 0.46 | 0.03 | 0.12 | Zone 2 |
| P-168 | J-112 | J-111 | 1253 | 8 | 140 | 72 | 0.46 | 0.15 | 0.12 | Zone 1 |
| P-700 | J-311 | J-400 | 237 | 6 | 140 | 41 | 0.46 | 0.04 | 0.17 | Zone 2 |
| P-324 | J-51 | J-194 | 661 | 6 | 140 | 41 | 0.46 | 0.11 | 0.17 | Zone 4 |
| P-261 | J-166 | J-160 | 304 | 8 | 140 | 72 | 0.46 | 0.04 | 0.12 | Zone 4 |
| P-601 | J-44 | J-355 | 92 | 10 | 140 | 111 | 0.45 | 0.01 | 0.09 | Zone 2 |
| P-600 | J-355 | J-45 | 395 | 10 | 140 | 111 | 0.45 | 0.04 | 0.09 | Zone 2 |
| P-1230 | J-759 | J-760 | 89 | 6 | 140 | -40 | 0.45 | 0.01 | 0.16 | Zone 4 |
| P-1217 | J-747 | J-759 | 168 | 6 | 140 | -40 | 0.45 | 0.03 | 0.17 | Zone 4 |
| P1617 | J-1342 | J-1300 | 189 | 8 | 140 | 70 | 0.45 | 0.02 | 0.12 | Zone 4 |
| 22-N-6 | J22-1092 | ELEMSCHO | 35 | 4 | 140 | 17 | 0.44 | 0.01 | 0.26 | Zone 4 |
| P-691 | J-394 | J-395 | 615 | 8 | 140 | -69 | 0.44 | 0.07 | 0.11 | Zone 4 |
| P-936 | J-247 | J-319 | 411 | 10 | 140 | 105 | 0.43 | 0.03 | 0.08 | Zone 4 |
| P-204 | J-136 | J-135 | 929 | 10 | 140 | -105 | 0.43 | 0.08 | 0.08 | Zone 4 |
| P-1058 | J-452 | J-663 | 209 | 6 | 140 | 38 | 0.43 | 0.03 | 0.15 | Zone 4 |
| P-346 | J-198 | J-199 | 233 | 8 | 140 | 66 | 0.42 | 0.02 | 0.11 | Zone 4 |
| P-1077 | J-680 | J-674 | 191 | 6 | 140 | -37 | 0.42 | 0.03 | 0.14 | Zone 4 |
| P-108 | J-76 | J-79 | 789 | 10 | 140 | 103 | 0.42 | 0.06 | 0.08 | Zone 4 |
| P-476 | J-274 | J-114 | 337 | 8 | 140 | 66 | 0.42 | 0.03 | 0.1 | Zone 2 |
| P-109 | J-79 | J-77 | 865 | 8 | 140 | 65 | 0.42 | 0.09 | 0.1 | Zone 1 |
| P-1107 | J-667 | FH-919 | 199 | 6 | 140 | -36 | 0.41 | 0.03 | 0.14 | Zone 4 |
| P-1105 | J-666 | FH-920 | 64 | 6 | 140 | -36 | 0.41 | 0.01 | 0.14 | Zone 4 |
| P-1106 | FH-920 | J-667 | 192 | 6 | 140 | -36 | 0.41 | 0.03 | 0.14 | Zone 4 |
| P-197 | J-131 | J-132 | 353 | 6 | 140 | 36 | 0.41 | 0.05 | 0.14 | Zone 4 |
| P-198 | J-132 | J-133 | 362 | 6 | 140 | 36 | 0.41 | 0.05 | 0.14 | Zone 4 |
| P-467 | J-265 | J-267 | 405 | 10 | 140 | 100 | 0.41 | 0.03 | 0.08 | Zone 2 |
| P-495 | J-284 | J-283 | 282 | 8 | 140 | 64 | 0.41 | 0.03 | 0.1 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-551 | J-313 | J-311 | 246 | 8 | 140 | -64 | 0.41 | 0.02 | 0.1 | Zone 4 |
| P-1070 | J-670 | J-671 | 204 | 6 | 140 | 36 | 0.41 | 0.03 | 0.13 | Zone 4 |
| P-129 | J-81 | J-93 | 767 | 10 | 140 | 99 | 0.4 | 0.06 | 0.07 | Zone 4 |
| P-756 | J-302 | J-266 | 757 | 6 | 140 | 36 | 0.4 | 0.1 | 0.13 | Zone 2 |
| P1584 | J-1300 | J-1301 | 809 | 8 | 140 | 63 | 0.4 | 0.08 | 0.1 | Zone 2 |
| P-125 | J-90 | J-89 | 406 | 8 | 140 | 63 | 0.4 | 0.04 | 0.09 | Zone 3 |
| P-124 | J-89 | J-88 | 309 | 8 | 140 | 63 | 0.4 | 0.03 | 0.1 | Zone 4 |
| P1635 | J-1314-1 | J-1315 | 329 | 6 | 140 | 35 | 0.4 | 0.04 | 0.13 | Zone 2 |
| P-450 | J-246 | J-256 | 266 | 10 | 140 | 97 | 0.4 | 0.02 | 0.07 | Zone 2 |
| P-553 | J-319 | J-318 | 155 | 10 | 140 | 97 | 0.4 | 0.01 | 0.07 | Zone 2 |
| P-701 | J-400 | J-401 | 262 | 6 | 140 | 35 | 0.39 | 0.03 | 0.13 | Zone 2 |
| P-432 | J-249 | J-146 | 71 | 8 | 140 | 61 | 0.39 | 0.01 | 0.09 | Zone 4 |
| P-1212 | J-756 | J-744 | 50 | 6 | 140 | -34 | 0.39 | 0.01 | 0.13 | Zone 4 |
| P-1196 | J-744 | J-PH19IRR2 | 300 | 6 | 140 | -34 | 0.39 | 0.04 | 0.13 | Zone 4 |
| P-546 | J-314 | J-298 | 255 | 10 | 140 | -95 | 0.39 | 0.02 | 0.07 | Zone 4 |
| P-715 | J-415 | J-404 | 198 | 6 | 140 | 34 | 0.39 | 0.02 | 0.12 | Zone 4 |
| P-126 | J-91 | J-90 | 757 | 8 | 140 | 60 | 0.38 | 0.07 | 0.09 | Zone 4 |
| P-1202 | J-749 | J-747 | 218 | 6 | 140 | -33 | 0.38 | 0.03 | 0.12 | Zone 2 |
| P-1204 | J-751 | J-749 | 296 | 6 | 140 | -33 | 0.38 | 0.03 | 0.12 | Zone 2 |
| P1633 | J-1315-1 | J-1314-1 | 5087 | 6 | 140 | 33 | 0.38 | 0.6 | 0.12 | Zone 2 |
| P-1167 | J-714 | J-728 | 224 | 6 | 140 | 33 | 0.37 | 0.03 | 0.12 | Zone 2 |
| P-688 | J-393 | J-394 | 364 | 8 | 140 | -59 | 0.37 | 0.03 | 0.08 | Zone 1 |
| P-752 | J-438 | J-439 | 244 | 6 | 140 | 33 | 0.37 | 0.03 | 0.12 | Zone 2 |
| J22-N-15 | J22-1085 | J22-1086 | 289 | 10 | 140 | -91 | 0.37 | 0.02 | 0.06 | Zone 2 |
| J22-N-15 | J22-1086 | J22-1087 | 366 | 10 | 140 | -91 | 0.37 | 0.02 | 0.06 | Zone 2 |
| P-1121 | J-671 | J-683 | 176 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-550 | J-316 | J-313 | 274 | 8 | 140 | -57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-452 | J-256 | J-257 | 285 | 10 | 140 | 89 | 0.36 | 0.02 | 0.06 | Zone 4 |
| P-537 | J-302 | J-307 | 398 | 6 | 140 | 32 | 0.36 | 0.04 | 0.11 | Zone 4 |
| P-1239 | J-761 | J-762 | 278 | 8 | 140 | 57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-830 | J-348 | J-483 | 158 | 12 | 140 | -128 | 0.36 | 0.01 | 0.05 | Zone 1 |
| P-118 | J-86 | J-85 | 384 | 8 | 140 | 56 | 0.36 | 0.03 | 0.08 | Zone 4 |
| P-167 | J-111 | J-110 | 964 | 8 | 140 | 56 | 0.36 | 0.07 | 0.08 | Zone 2 |
| P-686 | J-390 | J-393 | 303 | 8 | 140 | -56 | 0.35 | 0.02 | 0.08 | Zone 2 |
| P-1042 | J-571 | J-649 | 81 | 10 | 140 | -86 | 0.35 | 0 | 0.05 | Zone 2 |
| P-1041 | J-570 | J-649 | 189 | 10 | 140 | 86 | 0.35 | 0.01 | 0.06 | Zone 2 |
| P-1056 | J-663 | J-661 | 243 | 6 | 140 | 31 | 0.35 | 0.03 | 0.1 | Zone 4 |
| P-720 | J-419 | J-297 | 219 | 10 | 140 | -86 | 0.35 | 0.01 | 0.06 | Zone 4 |
| P-202 | J-134 | J-133 | 716 | 6 | 140 | 30 | 0.34 | 0.07 | 0.1 | Zone 4 |
| P-780 | J-423 | J-449 | 474 | 12 | 140 | 121 | 0.34 | 0.02 | 0.04 | Zone 4 |
| P1588 | J-1305 | J-1304 | 229 | 6 | 150 | -30 | 0.34 | 0.02 | 0.09 | Zone 2 |
| P-107 | J-77 | J-78 | 354 | 8 | 140 | 53 | 0.34 | 0.02 | 0.07 | Zone 4 |
| P1554-1 | J-1260 | J-1272 | 24 | 8 | 140 | 53 | 0.34 | 0 | 0.08 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|------------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P1553-2 | J-1275 | J-1260 | 24 | 8 | 140 | 53 | 0.34 | 0 | 0.06 | Zone 4 |
| P-1553(1 | J-325 | J-1275 | 193 | 8 | 140 | 53 | 0.34 | 0.01 | 0.07 | Zone 2 |
| P-95 | J-73 | J-72 | 405 | 8 | 140 | 53 | 0.34 | 0.03 | 0.07 | Zone 4 |
| P-98 | J-74 | J-73 | 315 | 8 | 140 | 53 | 0.34 | 0.02 | 0.07 | Zone 4 |
| P-102 | J-40 | J-76 | 341 | 10 | 140 | 81 | 0.33 | 0.02 | 0.05 | Zone 4 |
| P1649 | J-1338 | J-1336 | 5092 | 6 | 140 | 29 | 0.33 | 0.47 | 0.09 | Zone 4 |
| P-1352 | J-730 | J-806 | 250 | 10 | 140 | 81 | 0.33 | 0.01 | 0.05 | Zone 2 |
| P-251 | J-160 | J-159 | 376 | 8 | 140 | 51 | 0.33 | 0.02 | 0.06 | Zone 1 |
| P-545 | J-297 | J-314 | 142 | 10 | 140 | -79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-1071 | J-674 | J-570 | 271 | 10 | 140 | 79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-453 | J-258 | J-233 | 236 | 10 | 140 | 79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-123 | J-88 | J-87 | 424 | 8 | 140 | 50 | 0.32 | 0.03 | 0.06 | Zone 4 |
| P1639 | J-1314-1 | J-1336 | 214 | 6 | 140 | 28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P1596 | J-1312 | J-1315 | 276 | 6 | 140 | -28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P-1032 | J-639 | J-642 | 697 | 10 | 140 | -77 | 0.32 | 0.03 | 0.05 | Zone 4 |
| P-1026 | J-613 | J-639 | 141 | 10 | 140 | -77 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-1033 | J-642 | J-571 | 79 | 10 | 140 | -77 | 0.32 | 0 | 0.05 | Zone 4 |
| P-143 | J-99 | J-92 | 148 | 8 | 140 | 49 | 0.31 | 0.01 | 0.06 | Zone 4 |
| P-1237- | J-766 | J22-1072 | 172 | 8 | 140 | 49 | 0.31 | 0.01 | 0.06 | Zone 4 |
| P1643 | J-1329 | J-1328 | 5199 | 6 | 140 | 27 | 0.31 | 0.43 | 0.08 | Zone 2 |
| P-1088 | FH-928 | J-680 | 127 | 6 | 140 | -27 | 0.31 | 0.01 | 0.08 | Zone 4 |
| P-1089 | J-681 | FH-928 | 189 | 6 | 140 | -27 | 0.31 | 0.02 | 0.08 | Zone 4 |
| P-1197 | J-PH19IRR2 | J-746 | 283 | 6 | 140 | -27 | 0.31 | 0.02 | 0.08 | Zone 4 |
| P-1203 | J-746 | J-751 | 55 | 6 | 140 | -27 | 0.31 | 0 | 0.09 | Zone 2 |
| P1554-2 | J-1272 | J-1257 | 274 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 2 |
| P-572 | J-331 | J-427 | 331 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 2 |
| P-215 | J-145 | J-142 | 518 | 6 | 140 | 27 | 0.31 | 0.04 | 0.08 | Zone 2 |
| P-199 | J-133 | J-125 | 382 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 2 |
| P-1349 | J-805 | J-50 | 40 | 6 | 140 | 27 | 0.3 | 0 | 0.07 | Zone 4 |
| P-1350 | J-194 | J-805 | 198 | 6 | 140 | 27 | 0.3 | 0.02 | 0.08 | Zone 4 |
| P-1211 | J-755 | J-756 | 428 | 6 | 140 | -27 | 0.3 | 0.03 | 0.08 | Zone 4 |
| P-1072 | J-675 | J-674 | 186 | 10 | 140 | 73 | 0.3 | 0.01 | 0.04 | Zone 4 |
| P1595 | J-1311 | J-1312 | 143 | 6 | 140 | -26 | 0.3 | 0.01 | 0.08 | Zone 4 |
| P-1065 | J-669 | J-665 | 183 | 6 | 140 | -26 | 0.3 | 0.01 | 0.08 | Zone 4 |
| P-1059 | J-665 | J-666 | 326 | 6 | 140 | -26 | 0.3 | 0.03 | 0.08 | Zone 4 |
| P-132 | J-91 | J-81 | 179 | 8 | 140 | 46 | 0.29 | 0.01 | 0.05 | Zone 4 |
| P-133 | ESELEMSC | J-81 | 154 | 10 | 140 | 72 | 0.29 | 0.01 | 0.04 | Zone 4 |
| P-155 | J-97 | J-103 | 513 | 8 | 140 | 46 | 0.29 | 0.03 | 0.05 | Zone 4 |
| P-137 | J-45 | J-97 | 332 | 8 | 140 | 46 | 0.29 | 0.02 | 0.05 | Zone 4 |
| P-560 | J-325 | J-324 | 374 | 6 | 140 | 26 | 0.29 | 0.03 | 0.07 | Zone 2 |
| P-80 | J-62 | J-40 | 414 | 10 | 140 | -71 | 0.29 | 0.02 | 0.04 | Zone 2 |
| P-742 | J-435 | J-229 | 145 | 8 | 140 | 46 | 0.29 | 0.01 | 0.05 | Zone 2 |
| P-363 | J-208 | J-215 | 304 | 8 | 140 | 45 | 0.29 | 0.02 | 0.05 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-755 | J-300 | J-294 | 625 | 6 | 140 | 25 | 0.28 | 0.04 | 0.07 | Zone 4 |
| P-430 | J-141 | J-249 | 861 | 10 | 140 | 69 | 0.28 | 0.03 | 0.04 | Zone 4 |
| P-757 | J-415 | J-316 | 478 | 8 | 140 | -44 | 0.28 | 0.02 | 0.05 | Zone 1 |
| P-723 | J-420 | J-419 | 247 | 10 | 140 | -69 | 0.28 | 0.01 | 0.04 | Zone 4 |
| P-750 | J-285 | J-437 | 68 | 8 | 140 | -44 | 0.28 | 0 | 0.05 | Zone 2 |
| P1651 | J-1336 | J-1327 | 441 | 8 | 140 | 43 | 0.28 | 0.02 | 0.05 | Zone 3 |
| P-149 | J-101 | J-100 | 548 | 6 | 140 | 24 | 0.27 | 0.04 | 0.07 | Zone 3 |
| P-347 | J-199 | J-200 | 241 | 8 | 140 | 43 | 0.27 | 0.01 | 0.04 | Zone 3 |
| P-1109 | J-658 | FH-917 | 111 | 6 | 140 | -24 | 0.27 | 0.01 | 0.06 | Zone 3 |
| P-1110 | FH-918 | J-659 | 45 | 6 | 140 | -24 | 0.27 | 0 | 0.06 | Zone 3 |
| P-1111 | FH-917 | FH-918 | 243 | 6 | 140 | -24 | 0.27 | 0.02 | 0.06 | Zone 3 |
| P-89 | J-69 | J-68 | 692 | 8 | 140 | 42 | 0.27 | 0.03 | 0.05 | Zone 4 |
| P-96 | J-74 | J-69 | 414 | 8 | 140 | 42 | 0.27 | 0.02 | 0.04 | Zone 4 |
| P-201 | J-92 | J-134 | 483 | 10 | 140 | 66 | 0.27 | 0.02 | 0.03 | Zone 4 |
| P-1357 | J-806 | J-810 | 267 | 10 | 140 | 65 | 0.27 | 0.01 | 0.03 | Zone 4 |
| P-705 | J-404 | J-405 | 285 | 6 | 140 | 23 | 0.27 | 0.02 | 0.06 | Zone 3 |
| P1589 | J-1306 | J-1305 | 130 | 6 | 140 | -23 | 0.26 | 0.01 | 0.06 | Zone 2 |
| P-461 | J-246 | J-265 | 195 | 10 | 140 | 64 | 0.26 | 0.01 | 0.03 | Zone 4 |
| P-605(1) | J-119 | J-1248 | 175 | 8 | 140 | 41 | 0.26 | 0.01 | 0.04 | Zone 4 |
| P-605(2) | J-1248 | J-108 | 272 | 8 | 140 | 41 | 0.26 | 0.01 | 0.04 | Zone 4 |
| P-1327 | J-763 | J-799 | 187 | 8 | 140 | 41 | 0.26 | 0.01 | 0.04 | Zone 4 |
| P-1328 | J-799 | J-764 | 50 | 8 | 140 | 41 | 0.26 | 0 | 0.04 | Zone 4 |
| P-702 | J-401 | J-402 | 259 | 6 | 140 | 23 | 0.26 | 0.02 | 0.06 | Zone 4 |
| J2-N-15 | J22-1084 | J22-1085 | 278 | 10 | 140 | -63 | 0.26 | 0.01 | 0.03 | Zone 2 |
| P-454 | J-257 | J-258 | 198 | 10 | 140 | 63 | 0.26 | 0.01 | 0.03 | Zone 2 |
| J22-146 | J22-874 | J22-1173 | 16 | 8 | 140 | -40 | 0.26 | 0 | 0.03 | Zone 2 |
| J22-146 | J22-1173 | J22-1087 | 31 | 8 | 140 | -40 | 0.26 | 0 | 0.05 | Zone 1 |
| P-1064 | J-486 | J-669 | 172 | 6 | 140 | 22 | 0.25 | 0.01 | 0.06 | Zone 4 |
| P-1243 | J-1071 | J-768 | 77 | 8 | 140 | 40 | 0.25 | 0 | 0.04 | Zone 1 |
| P-120 | J-39 | J-84 | 876 | 8 | 140 | 40 | 0.25 | 0.04 | 0.04 | Zone 4 |
| P-1208 | J-480 | J-753 | 345 | 6 | 140 | 22 | 0.25 | 0.02 | 0.06 | Zone 4 |
| P-1168 | J-715 | J-728 | 93 | 6 | 140 | -22 | 0.25 | 0.01 | 0.06 | Zone 4 |
| P-1244 | J-762 | J-763 | 260 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 2 |
| P-760 | J-323 | J-324 | 152 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 2 |
| P-748 | J-283 | J-282 | 757 | 6 | 140 | 22 | 0.25 | 0.04 | 0.05 | Zone 2 |
| P-1491 | J22-874 | J-23-1207 | 87 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 2 |
| P-1087 | J-689 | J-690 | 227 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 4 |
| P-1104 | FH-930 | J-688 | 71 | 6 | 140 | -22 | 0.25 | 0 | 0.05 | Zone 4 |
| P-1103 | J-690 | FH-930 | 133 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 4 |
| P-254 | J-159 | J-162 | 576 | 8 | 140 | 38 | 0.25 | 0.02 | 0.04 | Zone 1 |
| P-145 | J-45 | J-95 | 918 | 6 | 140 | 22 | 0.25 | 0.05 | 0.05 | Zone 4 |
| P-538 | J-307 | J-308 | 435 | 6 | 140 | 22 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-803 | J-453 | J-466 | 510 | 6 | 140 | 21 | 0.24 | 0.03 | 0.05 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-468 | J-267 | J-268 | 229 | 10 | 140 | 59 | 0.24 | 0.01 | 0.03 | Zone 2 |
| P-179 | J-114 | J-120 | 335 | 8 | 140 | 37 | 0.24 | 0.01 | 0.04 | Zone 2 |
| P-74 | J-57 | J-58 | 581 | 6 | 140 | 21 | 0.24 | 0.03 | 0.05 | Zone 4 |
| P-568 | J-331 | J-330 | 516 | 8 | 140 | 37 | 0.24 | 0.02 | 0.04 | Zone 4 |
| P-1238 | J22-1072 | J-767 | 90 | 8 | 140 | 36 | 0.23 | 0 | 0.03 | Zone 4 |
| P-833 | J-455 | J-484 | 516 | 6 | 140 | 20 | 0.23 | 0.02 | 0.05 | Zone 4 |
| P-119 | J-38 | J-86 | 270 | 10 | 140 | 56 | 0.23 | 0.01 | 0.03 | Zone 4 |
| P-462 | J-266 | J-265 | 208 | 8 | 140 | 36 | 0.23 | 0.01 | 0.03 | Zone 4 |
| P-1451 | J22-902 | J-421 | 48 | 10 | 140 | -55 | 0.23 | 0 | 0.03 | Zone 4 |
| P-993 | J-456 | J-613 | 398 | 10 | 140 | -54 | 0.22 | 0.01 | 0.02 | Zone 4 |
| P-502 | J-288 | J-285 | 255 | 8 | 140 | -35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P492(1) | J-23-1207 | J-23-1228 | 300 | 8 | 140 | 35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P1594 | J-1310 | J-1311 | 92 | 6 | 140 | -19 | 0.22 | 0 | 0.04 | Zone 4 |
| P-362 | J-215 | J-214 | 237 | 8 | 140 | 34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-1209 | J-481 | J-755 | 329 | 6 | 140 | -19 | 0.22 | 0.01 | 0.04 | Zone 1 |
| P-786 | J-455 | J-456 | 189 | 12 | 140 | -76 | 0.22 | 0 | 0.02 | Zone 2 |
| P-171 | J-114 | J-115 | 477 | 8 | 140 | 34 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-479 | J-274 | J-275 | 854 | 8 | 140 | 33 | 0.21 | 0.02 | 0.03 | Zone 4 |
| P-1259 | J-761 | J-775 | 165 | 8 | 140 | 33 | 0.21 | 0 | 0.03 | Zone 4 |
| P2-N-15 | J22-1083 | J22-1084 | 280 | 10 | 140 | -52 | 0.21 | 0.01 | 0.02 | Zone 1 |
| P-144 | J-95 | J-99 | 722 | 6 | 140 | 19 | 0.21 | 0.03 | 0.04 | Zone 4 |
| P-234 | J-154 | J-153 | 370 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-753 | J-439 | J-288 | 68 | 8 | 140 | 33 | 0.21 | 0 | 0.03 | Zone 4 |
| P-116 | J-84 | J-83 | 377 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-176 | J-110 | J-119 | 701 | 8 | 140 | 33 | 0.21 | 0.02 | 0.03 | Zone 2 |
| P-94 | J-72 | J-66 | 894 | 8 | 140 | 32 | 0.21 | 0.02 | 0.03 | Zone 2 |
| P-834 | J-454 | J-485 | 706 | 6 | 140 | 18 | 0.21 | 0.03 | 0.04 | Zone 2 |
| P-1251 | J-769 | J-715 | 259 | 6 | 140 | -18 | 0.2 | 0.01 | 0.04 | Zone 3 |
| P-697 | J-397 | J-398 | 372 | 8 | 140 | -32 | 0.2 | 0.01 | 0.03 | Zone 3 |
| P-791 | J-423 | J-460 | 169 | 10 | 140 | 49 | 0.2 | 0 | 0.02 | Zone 4 |
| P-779 | J-423 | J-421 | 691 | 10 | 140 | 49 | 0.2 | 0.01 | 0.02 | Zone 4 |
| P-1242 | J-767 | J-1071 | 187 | 8 | 140 | 31 | 0.2 | 0 | 0.03 | Zone 4 |
| P-142 | J-98 | J-99 | 304 | 8 | 140 | 31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-140 | J-96 | J-98 | 707 | 8 | 140 | 31 | 0.2 | 0.02 | 0.02 | Zone 4 |
| P-1364 | J-810 | J-815 | 257 | 10 | 140 | 48 | 0.2 | 0 | 0.02 | Zone 4 |
| P-570 | J-332 | J-333 | 186 | 8 | 140 | 31 | 0.2 | 0 | 0.03 | Zone 4 |
| P1653 | J-1327 | J-1324 | 341 | 8 | 140 | 31 | 0.2 | 0.01 | 0.02 | Zone 4 |
| P-212 | J-142 | J-143 | 380 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-196 | J-131 | J-92 | 421 | 8 | 140 | 30 | 0.19 | 0.01 | 0.02 | Zone 4 |
| P-721 | J-418 | J-419 | 381 | 6 | 140 | -17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-389 | J-233 | J-223 | 407 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 2 |
| P2-N-15 | J22-1082 | J22-1083 | 196 | 10 | 140 | -47 | 0.19 | 0 | 0.02 | Zone 2 |
| P2-N-15 | J22-1090 | J22-1091 | 366 | 10 | 140 | -47 | 0.19 | 0.01 | 0.02 | Zone 2 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| 2-N-15 | J22-1091 | J22-902 | 162 | 10 | 140 | -47 | 0.19 | 0 | 0.02 | Zone 2 |
| P-523 | J-298 | J-295 | 460 | 6 | 140 | 17 | 0.19 | 0.02 | 0.03 | Zone 2 |
| P-459 | J-257 | J-263 | 149 | 6 | 140 | 17 | 0.19 | 0 | 0.03 | Zone 2 |
| P-1054 | J-661 | J-659 | 233 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-1428 | J22-1069 | J-853 | 149 | 8 | 140 | -29 | 0.19 | 0 | 0.02 | Zone 4 |
| P-1429 | J-853 | J22-1070 | 86 | 8 | 140 | -29 | 0.19 | 0 | 0.02 | Zone 4 |
| P-743 | J-233 | J-435 | 85 | 10 | 140 | 46 | 0.19 | 0 | 0.02 | Zone 4 |
| P-540 | J-300 | J-310 | 452 | 6 | 140 | 16 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-246 | J-68 | J-157 | 352 | 8 | 140 | 29 | 0.18 | 0.01 | 0.02 | Zone 1 |
| P-247 | J-157 | J-67 | 592 | 8 | 140 | 29 | 0.18 | 0.01 | 0.02 | Zone 4 |
| P-798 | J-462 | J-420 | 244 | 10 | 140 | -45 | 0.18 | 0 | 0.02 | Zone 4 |
| P-1492(2) | J-23-1223 | J-23-1208 | 16 | 8 | 140 | 29 | 0.18 | 0 | 0.03 | Zone 2 |
| P-1492(1) | J-23-1228 | J-23-1223 | 348 | 8 | 140 | 29 | 0.18 | 0.01 | 0.02 | Zone 2 |
| P-617 | J-346 | J-348 | 297 | 12 | 140 | -65 | 0.18 | 0 | 0.01 | Zone 2 |
| P-235 | J-154 | J-155 | 404 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 2 |
| P-813 | J-474 | J-452 | 196 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 2 |
| P-1428 | J22-848 | J22-1069 | 191 | 8 | 140 | -28 | 0.18 | 0 | 0.02 | Zone 2 |
| P-393 | J-229 | J-227 | 238 | 8 | 140 | 28 | 0.18 | 0 | 0.02 | Zone 2 |
| P-547 | J-315 | J-314 | 480 | 6 | 140 | -15 | 0.17 | 0.01 | 0.03 | Zone 2 |
| P-79 | J-39 | J-62 | 344 | 10 | 140 | -42 | 0.17 | 0.01 | 0.02 | Zone 2 |
| P-503 | J-208 | J-288 | 206 | 8 | 140 | -27 | 0.17 | 0 | 0.02 | Zone 4 |
| P-348 | J-200 | J-201 | 237 | 8 | 140 | 27 | 0.17 | 0 | 0.02 | Zone 4 |
| P-154 | J-103 | J-96 | 412 | 8 | 140 | 26 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P-1122 | J-681 | J-689 | 116 | 6 | 140 | -15 | 0.17 | 0 | 0.03 | Zone 4 |
| P-1256 | J-771 | J-774 | 109 | 8 | 140 | -26 | 0.17 | 0 | 0.02 | Zone 4 |
| P-1257 | J-774 | J-714 | 276 | 8 | 140 | -26 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P-953 | J-288 | J-586 | 197 | 10 | 140 | 41 | 0.17 | 0 | 0.01 | Zone 2 |
| P1590 | J-1307 | J-1306 | 65 | 6 | 140 | -15 | 0.17 | 0 | 0.02 | Zone 4 |
| P-1207 | J-753 | J-752 | 410 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-517 | J-296 | J-295 | 262 | 6 | 140 | -15 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P1549-2 | J-1257 | J-1274 | 144 | 8 | 140 | 26 | 0.17 | 0 | 0.02 | Zone 4 |
| P1549-1 | J-1274 | J-1256 | 121 | 8 | 140 | 26 | 0.17 | 0 | 0.02 | Zone 4 |
| P-355 | J-198 | J-208 | 669 | 8 | 140 | 26 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-1260 | J-775 | J-766 | 237 | 8 | 140 | 26 | 0.16 | 0 | 0.02 | Zone 2 |
| P-1362 | J-814 | J-769 | 371 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-573 | J-427 | J-327 | 350 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 3 |
| P-821 | J-460 | J-478 | 492 | 6 | 140 | 14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-1429 | J22-1070 | J-768 | 190 | 8 | 140 | -25 | 0.16 | 0 | 0.02 | Zone 2 |
| P-405 | J-214 | J-239 | 245 | 8 | 140 | 25 | 0.16 | 0 | 0.02 | Zone 4 |
| P-814 | J-475 | J-474 | 214 | 6 | 140 | 14 | 0.16 | 0 | 0.02 | Zone 4 |
| P-127 | J-90 | J-85 | 317 | 10 | 140 | -38 | 0.16 | 0 | 0.01 | Zone 4 |
| P1598 | J-1315-2 | J-1336 | 260 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P1597 | J-1314 | J-1315-2 | 77 | 6 | 140 | -14 | 0.16 | 0 | 0.03 | Zone 4 |

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|--------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P1641 | J-1336 | J-1328 | 112 | 6 | 140 | -14 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1430 | J22-848 | J-854 | 52 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-512 | J-280 | J-282 | 243 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-184 | J-120 | J-123 | 940 | 10 | 140 | 37 | 0.15 | 0.01 | 0.01 | Zone 2 |
| P-485 | J-270 | J-278 | 481 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-1497 | J-23-1210 | J-766 | 137 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 2 |
| P-1493 | J-23-1208 | J-23-1209 | 54 | 8 | 140 | 23 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1494 | J-23-1209 | J-23-1210 | 48 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1069 | J-660 | J-670 | 91 | 6 | 140 | -13 | 0.15 | 0 | 0.02 | Zone 4 |
| P-543 | J-312 | J-298 | 499 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-785 | J-454 | J-455 | 249 | 12 | 140 | -52 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1131 | J-704 | J-613 | 480 | 8 | 140 | -23 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-706 | J-405 | J-406 | 300 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-817 | J-420 | J-477 | 430 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-694 | J-396 | J-397 | 281 | 8 | 140 | -23 | 0.14 | 0 | 0.01 | Zone 4 |
| P-200 | J-134 | J-93 | 189 | 10 | 140 | 35 | 0.14 | 0 | 0.01 | Zone 3 |
| P-484 | J-267 | J-278 | 397 | 8 | 140 | 22 | 0.14 | 0.01 | 0.01 | Zone 3 |
| P-1361 | J-770 | J-814 | 134 | 6 | 140 | -12 | 0.14 | 0 | 0.02 | Zone 2 |
| P1593 | J-1309 | J-1310 | 493 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 2 |
| P-991 | J-485 | J-486 | 261 | 6 | 140 | 12 | 0.14 | 0.01 | 0.02 | Zone 2 |
| P-1051 | J-656 | J-658 | 197 | 6 | 140 | -12 | 0.14 | 0 | 0.02 | Zone 4 |
| P-135 | J-95 | ESELEMSC | 652 | 10 | 140 | -34 | 0.14 | 0.01 | 0.01 | Zone 4 |
| P-172 | J-115 | J-116 | 806 | 8 | 140 | 22 | 0.14 | 0.01 | 0.01 | Zone 2 |
| P-992 | J-484 | J-485 | 259 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 2 |
| P1548 | J-1256 | J-1255 | 170 | 8 | 140 | 21 | 0.14 | 0 | 0.01 | Zone 2 |
| P-114 | J-82 | J-64 | 366 | 8 | 140 | 21 | 0.14 | 0 | 0.01 | Zone 4 |
| P-115 | J-83 | J-82 | 298 | 8 | 140 | 21 | 0.14 | 0 | 0.01 | Zone 4 |
| P-101 | J-75 | J-66 | 388 | 10 | 140 | -33 | 0.14 | 0 | 0.01 | Zone 4 |
| P-1424 | J-847 | J-850 | 61 | 8 | 140 | 21 | 0.13 | 0 | 0.01 | Zone 4 |
| P-730 | J-416 | J-425 | 242 | 6 | 140 | 12 | 0.13 | 0 | 0.02 | Zone 1 |
| 22-145 | J22-1080 | J22-1082 | 221 | 10 | 140 | -32 | 0.13 | 0 | 0.01 | Zone 4 |
| P-478 | J-275 | J-114 | 798 | 8 | 140 | 20 | 0.13 | 0.01 | 0.01 | Zone 4 |
| P-703 | J-403 | J-402 | 274 | 6 | 140 | -11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-487 | J-272 | J-279 | 343 | 6 | 140 | -11 | 0.13 | 0.01 | 0.02 | Zone 4 |
| P-1379 | J-815 | J-820 | 47 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-1380 | J-820 | J-819 | 131 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-1400 | J-819 | J-829 | 89 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-81 | J-61 | J-62 | 433 | 8 | 140 | -20 | 0.13 | 0 | 0.01 | Zone 2 |
| P-724 | J-420 | J-417 | 394 | 6 | 140 | 11 | 0.13 | 0.01 | 0.01 | Zone 4 |
| P-183 | J-123 | J-118 | 356 | 8 | 140 | 20 | 0.12 | 0 | 0.01 | Zone 4 |
| P-569 | J-330 | J-332 | 245 | 8 | 140 | 20 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1178 | J-728 | J-733 | 220 | 6 | 140 | 11 | 0.12 | 0 | 0.02 | Zone 4 |
| P-136 | J-96 | J-95 | 334 | 8 | 140 | -19 | 0.12 | 0 | 0.01 | Zone 4 |

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|--------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-717 | J-416 | J-417 | 277 | 6 | 140 | -11 | 0.12 | 0 | 0.01 | Zone 1 |
| P-515 | J-294 | J-266 | 275 | 6 | 140 | 11 | 0.12 | 0 | 0.01 | Zone 4 |
| P-480 | J-267 | J-276 | 476 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| 2-N-15 | J22-1089 | J22-1090 | 345 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 4 |
| P-181 | J-121 | J-122 | 538 | 6 | 140 | 11 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-180 | J-120 | J-121 | 307 | 6 | 140 | 11 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1399 | J-255 | ALLEYCHU | 263 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 2 |
| P-819 | J-461 | J-475 | 597 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-213 | J-143 | J-144 | 693 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-185 | J-120 | J-124 | 232 | 10 | 140 | -29 | 0.12 | 0 | 0.01 | Zone 2 |
| P-186 | J-45 | J-124 | 396 | 10 | 140 | 29 | 0.12 | 0 | 0.01 | Zone 2 |
| P-1185 | J-736 | J-730 | 186 | 6 | 140 | -10 | 0.12 | 0 | 0.01 | Zone 2 |
| P-815 | J-476 | J-475 | 219 | 6 | 140 | 10 | 0.12 | 0 | 0.01 | Zone 1 |
| P-401 | J-229 | J-238 | 407 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 2 |
| P-486 | J-268 | J-279 | 352 | 8 | 140 | 18 | 0.12 | 0 | 0.01 | Zone 2 |
| P-177 | J-118 | J-119 | 352 | 8 | 140 | 18 | 0.11 | 0 | 0.01 | Zone 4 |
| P-782 | J-449 | J-452 | 389 | 12 | 140 | 40 | 0.11 | 0 | 0.01 | Zone 4 |
| 2-N-15 | J22-1079 | J22-1080 | 381 | 10 | 140 | -28 | 0.11 | 0 | 0.01 | Zone 4 |
| P1655 | J-1324 | J-1325 | 5287 | 8 | 140 | 18 | 0.11 | 0.05 | 0.01 | Zone 4 |
| P-835 | J-466 | J-486 | 389 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 1 |
| P-162 | J-108 | J-106 | 343 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| 22-N-6 | J22-1090 | J22-1092 | 32 | 8 | 140 | 17 | 0.11 | 0 | 0 | Zone 4 |
| P-1358 | J-810 | J-811 | 82 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-1431 | J-854 | J-855 | 293 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-758 | J-269 | J-321 | 454 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-469 | J-268 | J-269 | 289 | 10 | 140 | 26 | 0.11 | 0 | 0.01 | Zone 4 |
| P-1421 | J-765 | J-847 | 63 | 8 | 140 | 17 | 0.11 | 0 | 0.02 | Zone 4 |
| P-1247 | J-764 | J-765 | 147 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-539 | J-309 | J-308 | 263 | 6 | 140 | -9 | 0.11 | 0 | 0.01 | Zone 4 |
| P-818 | J-462 | J-476 | 507 | 6 | 140 | 9 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-535 | J-304 | J-305 | 590 | 6 | 140 | 9 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-103 | J-76 | J-75 | 329 | 10 | 140 | -26 | 0.11 | 0 | 0.01 | Zone 4 |
| P-708 | J-406 | J-408 | 225 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1353 | J-806 | J-807 | 71 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| 2-N-12 | J22-1166 | J22-1168 | 125 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| 2-N-12 | J22-1085 | J22-1166 | 54 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-793 | J-460 | J-459 | 516 | 6 | 140 | 9 | 0.1 | 0.01 | 0.01 | Zone 4 |
| P-394 | J-227 | J-225 | 240 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-718 | J-417 | J-418 | 243 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P1563 | J-1257 | J-1279-IRR | 23 | 6 | 140 | 9 | 0.1 | 0 | 0.02 | Zone 4 |
| P-955 | J-425 | J-587 | 100 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1401 | J-829 | J-830 | 287 | 10 | 140 | 24 | 0.1 | 0 | 0.01 | Zone 4 |
| P-954 | J-586 | J-264 | 190 | 10 | 140 | 24 | 0.1 | 0 | 0.01 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-130 | J-93 | J-90 | 206 | 10 | 140 | -24 | 0.1 | 0 | 0 | Zone 4 |
| P-1280 | J-764 | J-782 | 70 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-231 | J-153 | J-150 | 377 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1277 | J-768 | J-781 | 211 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1425 | J-850 | J-851 | 253 | 8 | 140 | 15 | 0.09 | 0 | 0.01 | Zone 4 |
| P-481 | J-276 | J-271 | 438 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P1551-2 | J-1255 | J-1266 | 104 | 8 | 140 | 15 | 0.09 | 0 | 0 | Zone 4 |
| P-799 | J-462 | J-426 | 629 | 6 | 140 | 8 | 0.09 | 0.01 | 0.01 | Zone 4 |
| P-820 | J-478 | J-474 | 222 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1483 | J-23-1197 | J-1198 | 113 | 8 | 140 | -14 | 0.09 | 0 | 0 | Zone 4 |
| P-482 | J-268 | J-277 | 372 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-759 | J-269 | J-323 | 489 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1129 | LDG3-CCC | J-704 | 52 | 8 | 140 | -14 | 0.09 | 0 | 0 | Zone 4 |
| P-796 | J-461 | J-458 | 570 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-87 | J-66 | J-67 | 461 | 8 | 140 | -14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-406 | J-239 | J-212 | 238 | 8 | 140 | 14 | 0.09 | 0 | 0 | Zone 2 |
| P1585 | J-1301 | J-1302 | 229 | 8 | 140 | 14 | 0.09 | 0 | 0 | Zone 2 |
| P1659 | J-1326 | J-1307 | 425 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-1403 | J-770 | J-832 | 365 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-516 | J-295 | J-294 | 261 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-542 | J-311 | J-309 | 178 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-390 | J-233 | J-231 | 335 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1112 | J-661 | FH-915 | 52 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-733 | J-428 | J-204 | 208 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-383 | J-225 | J-226 | 331 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-735 | J-429 | J-205 | 208 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-385 | J-227 | J-228 | 355 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1119 | FH-916 | J-657 | 258 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1113 | FH-915 | J-662 | 254 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1114 | J-654 | FH-914 | 64 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-387 | J-229 | J-230 | 337 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 1 |
| P-1115 | FH-914 | J-655 | 253 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 1 |
| P-737 | J-430 | J-206 | 198 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1118 | J-656 | FH-916 | 61 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-232 | J-153 | J-152 | 566 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-747 | J-281 | J-280 | 562 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 1 |
| 788(1) | J-456 | J-1278 | 195 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 1 |
| 22-N-12 | J22-1168 | J22-1169 | 299 | 8 | 140 | 13 | 0.08 | 0 | 0 | Zone 4 |
| 22-145 | J22-898 | J22-1072 | 44 | 8 | 140 | -13 | 0.08 | 0 | 0 | Zone 4 |
| 22-N-13 | J22-1172 | J22-898 | 290 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 4 |
| P-775 | J-446 | J-448 | 544 | 8 | 140 | 13 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1205 | J-752 | J-PH19IRR2 | 55 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 4 |
| P-1053 | J-659 | J-660 | 336 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-772 | J-327 | J-446 | 354 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 2 |
| P-1405 | J-833 | J-834 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 3 |
| 1551-1 | J-1266 | J-1278 | 26 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 3 |
| P-1482 | J-23-1196 | J-23-1197 | 116 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 2 |
| P-1117 | FH-913 | J-664 | 190 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 2 |
| -1487(1) | J22-1085 | J23-IRR | 39 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 1 |
| -1487(2) | J23-IRR | J-23-1203 | 143 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 1 |
| P-1116 | J-663 | FH-913 | 59 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-816 | J-477 | J-476 | 215 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-403 | J-238 | J-221 | 231 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-1253 | J-761 | J-773 | 65 | 8 | 140 | -12 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1254 | J-773 | J-771 | 320 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| P-77 | J-38 | J-60 | 354 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-236 | J-155 | J-152 | 410 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-726 | J-421 | J-415 | 1019 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| 2-N-15- | J-1179 | J22-1079 | 248 | 10 | 140 | -18 | 0.07 | 0 | 0 | Zone 4 |
| P-349 | J-201 | J-202 | 225 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |
| P-1045 | J-646 | J-652 | 569 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 1 |
| P-973 | J-597 | J-603 | 572 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 1 |
| P-1046 | J-647 | J-653 | 566 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |
| P-520 | J-297 | J-296 | 403 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| 2-N-11 | J22-1084 | J22-1164 | 30 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-809 | J-453 | J-471 | 432 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-555 | J-269 | J-320 | 146 | 10 | 140 | 17 | 0.07 | 0 | 0 | Zone 1 |
| P-574 | J-427 | J-332 | 522 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 1 |
| P-741 | J-195 | J-434 | 300 | 6 | 140 | 6 | 0.07 | 0 | 0 | Zone 1 |
| P-164 | J-108 | J-109 | 885 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-811 | J-472 | J-272 | 97 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1263 | J-762 | J-776 | 164 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-931 | J-589 | J-588 | 540 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-935 | J-589 | J-590 | 507 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 3 |
| P-585 | J-160 | J-343 | 544 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-1432 | J-855 | J-856 | 242 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-460 | J-264 | J-258 | 354 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-365 | J-199 | J-215 | 680 | 6 | 140 | 6 | 0.07 | 0 | 0 | Zone 1 |
| P-541 | J-309 | J-310 | 372 | 6 | 140 | -6 | 0.07 | 0 | 0 | Zone 4 |
| P-1418 | J-845 | J-834 | 162 | 8 | 140 | -10 | 0.07 | 0 | 0 | Zone 4 |
| P-794 | J-460 | J-461 | 258 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 1 |
| -1458(2) | J-1184 | J-1199 | 21 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-1450 | J22-901 | J-830 | 160 | 10 | 140 | -16 | 0.07 | 0 | 0 | Zone 4 |
| 2-1458 | J22-901 | J-1184 | 44 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-1422 | J-847 | J22-848 | 226 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-784 | J-453 | J-454 | 253 | 12 | 140 | -22 | 0.06 | 0 | 0 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-745 | J-257 | J-436 | 218 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1283 | J-782 | J-783 | 381 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1472 | J-23-1186 | J-23-1187 | 75 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1484 | J-23-1186 | J-1199 | 65 | 8 | 140 | -10 | 0.06 | 0 | 0.01 | Zone 1 |
| P1592 | J-1308 | J-1309 | 336 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 1 |
| P-773 | J-333 | J-446 | 387 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 1 |
| -15-2-1 | J-1200 | J-1183 | 139 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| N-15-2 | J-1183 | J-1179 | 254 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-595 | J-350 | J-14 | 534 | 10 | 110 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-14 | J-13 | J-14 | 1017 | 10 | 110 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-1132 | J-350 | J-706 | 78 | 10 | 140 | 15 | 0.06 | 0 | 0.01 | Zone 4 |
| P-712 | J-402 | J-412 | 288 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-711 | J-403 | J-411 | 277 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 1 |
| P-710 | J-404 | J-410 | 271 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-713 | J-401 | J-413 | 304 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-483 | J-277 | J-273 | 342 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-414 | J-223 | J-238 | 233 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-774 | J-333 | J-447 | 319 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-565 | J-330 | J-329 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-581 | J-341 | J-336 | 180 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| P1599 | J-1304 | J-1312 | 531 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 2 |
| P-1368 | J-818 | J-770 | 379 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 2 |
| P-1127 | FH-931 | J-705 | 187 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1130 | J-705 | BLDG3-CCC | 79 | 8 | 140 | -9 | 0.06 | 0 | 0.01 | Zone 4 |
| P-1128 | 4-VILLAGE | FH-931 | 250 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-378 | J-221 | J-220 | 249 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-156 | J-104 | J-103 | 364 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1481 | J-23-1195 | J-23-1196 | 110 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 2 |
| 22-N-12 | J22-1169 | J22-896 | 119 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| 22-145 | J22-896 | J-1071 | 55 | 8 | 140 | 9 | 0.06 | 0 | 0.01 | Zone 2 |
| 22-N-11 | J22-1164 | J22-1165 | 138 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| P-812 | J-321 | J-473 | 84 | 6 | 140 | 5 | 0.06 | 0 | 0.01 | Zone 2 |
| P1657 | J-1325 | J-1326 | 349 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 2 |
| P-808 | J-470 | J-270 | 102 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-810 | J-471 | J-470 | 449 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-797 | J-461 | J-462 | 242 | 10 | 140 | -14 | 0.06 | 0 | 0 | Zone 4 |
| P-1426 | J-851 | J-852 | 214 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-994 | J-571 | MIDDLESCH | 221 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-548 | J-316 | J-315 | 479 | 6 | 140 | -5 | 0.05 | 0 | 0 | Zone 4 |
| P-174 | J-117 | J-118 | 570 | 8 | 140 | 9 | 0.05 | 0 | 0 | Zone 4 |
| P-173 | J-116 | J-117 | 528 | 8 | 140 | 9 | 0.05 | 0 | 0 | Zone 4 |
| P-384 | J-227 | J-221 | 420 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-1473 | J-23-1187 | J-23-1188 | 47 | 8 | 140 | 8 | 0.05 | 0 | 0.01 | Zone 4 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-986 | J-612 | J-611 | 561 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1365 | J-815 | J-816 | 84 | 8 | 140 | 8 | 0.05 | 0 | 0.01 | Zone 4 |
| P-783 | J-452 | J-453 | 256 | 12 | 140 | 18 | 0.05 | 0 | 0 | Zone 1 |
| P-228 | J-150 | J-151 | 709 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-455 | J-246 | J-259 | 165 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-709 | J-405 | J-409 | 256 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-456 | J-256 | J-260 | 180 | 6 | 140 | 5 | 0.05 | 0 | 0.01 | Zone 2 |
| P-754 | J-438 | J-440 | 108 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-1413 | J-830 | J-841 | 54 | 8 | 140 | 8 | 0.05 | 0 | 0.01 | Zone 4 |
| P-1414 | J-841 | J-842 | 266 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-44 | J-38 | J-39 | 1015 | 10 | 140 | 12 | 0.05 | 0 | 0 | Zone 4 |
| P-1355 | J-808 | J-809 | 272 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1354 | J-807 | J-808 | 247 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-736 | J-201 | J-430 | 305 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-350 | J-203 | J-198 | 510 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 4 |
| P-734 | J-200 | J-429 | 299 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-732 | J-199 | J-428 | 306 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-354 | J-202 | J-207 | 506 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 1 |
| P-1278 | J-781 | J-763 | 187 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 2 |
| P-1407 | J-829 | J-836 | 75 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 2 |
| P-1359 | J-811 | J-812 | 267 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 1 |
| P-1360 | J-812 | J-813 | 241 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1265 | J-762 | J-777 | 60 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1268 | J-777 | J-778 | 331 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-832 | J-455 | J-473 | 475 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-1412 | J-840 | J-832 | 266 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 4 |
| P-580 | J-166 | J-340 | 483 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P1586 | J-1302 | J-1303 | 178 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1480 | J-23-1194 | J-23-1195 | 174 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 4 |
| P-1485 | J-1200 | J-23-1201 | 115 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-532 | J-266 | J-303 | 100 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-457 | J-256 | J-261 | 111 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-707 | J-406 | J-407 | 195 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-738 | J-197 | J-431 | 104 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-1404 | J-832 | J-833 | 308 | 6 | 140 | 3 | 0.04 | 0 | 0 | Zone 4 |
| P-395 | J-225 | J-218 | 238 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-13 | J22-1171 | J22-1172 | 312 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 1 |
| P-1434 | J-847 | J-857 | 66 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1435 | J-857 | J-858 | 130 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-687 | J-393 | J-391 | 773 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-11 | J22-1165 | J22-892 | 212 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1474 | J-23-1188 | J-23-1189 | 489 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 2 |
| P-1274 | J-779 | J-780 | 128 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1271 | J-763 | J-779 | 61 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-117 | J-85 | J-84 | 409 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| 22-145 | J22-848 | J22-887 | 205 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| 22-N-10 | J22-887 | J22-1160 | 157 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| 22-N-10 | J22-1160 | J22-1082 | 39 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 2 |
| P-1039 | J-647 | J-648 | 339 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 2 |
| P-1406 | J-834 | J-835 | 166 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-1462 | J-835 | J-1179 | 105 | 6 | 150 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-787 | J-320 | J-456 | 682 | 10 | 140 | 9 | 0.04 | 0 | 0 | Zone 4 |
| P-404 | J-201 | J-239 | 683 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 2 |
| P-740 | J-195 | J-433 | 141 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 1 |
| P-739 | J-196 | J-432 | 111 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-396 | J-185 | J-234 | 303 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-1-1 | J22-1088 | J22-1174 | 32 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 3 |
| 22-N-1-1 | J22-1174 | J22-880 | 16 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| -15-2-1 | J22-1078 | J-1200 | 119 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| -N-15-1 | J-1198 | J22-1078 | 177 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| P-729 | J-421 | J-424 | 690 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-359 | J-202 | J-212 | 668 | 8 | 140 | -5 | 0.03 | 0 | 0 | Zone 4 |
| P1520 | J-1232 | J-1236 | 202 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-2-1 | J22-1083 | J22-1161 | 29 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-789 | J-458 | J-426 | 252 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 1 |
| P-1489 | J-23-1203 | J-23-1205 | 191 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P1552 | J-1257 | J-1259 | 149 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-5-1 | J22-1079 | J22-1158 | 35 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-3-1 | J22-1080 | J22-1159 | 33 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-1284 | J-783 | J-770 | 271 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-145 | J22-892 | J22-1070 | 71 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-182 | J-123 | J-122 | 586 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-731 | J-426 | J-416 | 255 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-544 | J-313 | J-312 | 499 | 6 | 140 | -2 | 0.03 | 0 | 0 | Zone 4 |
| P-229 | J-152 | J-151 | 477 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-1269 | J-778 | J-715 | 227 | 8 | 140 | -4 | 0.03 | 0 | 0 | Zone 4 |
| P-831 | J-454 | J-472 | 691 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 1 |
| P-366 | J-200 | J-214 | 676 | 6 | 140 | -2 | 0.03 | 0 | 0 | Zone 2 |
| -N-15-1 | J22-899 | J-1198 | 100 | 10 | 140 | 6 | 0.03 | 0 | 0 | Zone 2 |
| -1458(2 | J-1199 | J22-899 | 203 | 10 | 140 | 6 | 0.03 | 0 | 0 | Zone 2 |
| P-1420 | J-846 | J-844 | 143 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 2 |
| P-1419 | J-843 | J-846 | 53 | 8 | 150 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1488 | J-23-1203 | J-23-1204 | 288 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1486 | J-23-1201 | J-23-1202 | 148 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-790 | J-459 | J-458 | 254 | 6 | 140 | 2 | 0.02 | 0 | 0 | Zone 4 |
| P-1475 | J-23-1189 | J-23-1190 | 5144 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-377 | J-220 | J-219 | 290 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-382 | J-220 | J-225 | 416 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1433 | J-856 | J-833 | 214 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1275 | J-780 | J-769 | 294 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-376 | J-219 | J-218 | 339 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1479 | J-23-1193 | J-23-1194 | 5137 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1262 | J-776 | J-767 | 240 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-463 | TANK3 | J-243 | 652 | 10 | 140 | 5 | 0.02 | 0 | 0 | Zone 2 |
| 22-N-13 | J22-1170 | J22-1171 | 147 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1498 | J22-880 | J-23-1212 | 109 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-78 | J-60 | J-61 | 1317 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-443 | J-218 | J-254 | 307 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1427 | J-852 | J-832 | 195 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P1590-2 | J-1306 | J-1308 | 179 | 6 | 140 | 2 | 0.02 | 0 | 0 | Zone 4 |
| P-1417 | J-843 | J-845 | 411 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 2 |
| P-716 | J-416 | J-415 | 202 | 6 | 140 | 1 | 0.02 | 0 | 0 | Zone 4 |
| P-225 | J9RENOTR | J-54 | 375 | 12 | 110 | -5 | 0.02 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1161 | J22-1163 | 138 | 8 | 140 | 2 | 0.02 | 0 | 0 | Zone 3 |
| P-407 | J-212 | J-236 | 362 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 2 |
| P-444 | J-254 | J-236 | 65 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 2 |
| 22-N-5 | J22-1158 | J22-884 | 106 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 22-N-3 | J22-1159 | J22-886 | 117 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1490 | J-23-1205 | J-23-1206 | 56 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| -1502(2) | J-23-1217 | J-23-1216 | 14 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 1502(1) | J-23-1219 | J-23-1217 | 27 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1478 | J-23-1192 | J-23-1193 | 157 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1477 | J-23-1191 | J-23-1192 | 52 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1476 | J-23-1190 | J-23-1191 | 147 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1383 | J-823 | J-814 | 280 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-1382 | J-813 | J-823 | 191 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-158 | J-106 | J-105 | 370 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-157 | J-105 | J-104 | 617 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| 22-145 | J22-890 | J22-1069 | 66 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-165 | J-109 | J-104 | 278 | 8 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-704 | J-404 | J-403 | 265 | 6 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1415 | J-842 | J-843 | 118 | 8 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1366 | J-816 | J-817 | 278 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1367 | J-817 | J-818 | 216 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 2 |
| P-1356 | J-809 | J-769 | 698 | 8 | 140 | -1 | 0 | 0 | 0 | Zone 2 |
| 788(1) | J-1278 | 4-VILLAGE | 78 | 8 | 140 | -1 | 0 | 0 | 0 | Zone 4 |
| P-1411 | J-839 | J-840 | 268 | 8 | 140 | 1 | 0 | 0 | 0 | Zone 4 |
| P-1410 | J-836 | J-839 | 254 | 8 | 140 | 1 | 0 | 0 | 0 | Zone 1 |
| P-1183 | J-735 | J-729 | 55 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|------------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1180 | J-731 | J-734 | 85 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1184 | J-729 | J-736 | 225 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1179 | J-733 | J-731 | 232 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1182 | J-734 | J-735 | 225 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1163 | J22-890 | 141 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1508 | J-23-1189 | J-23-1225 | 50 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1511 | J-23-1225 | AV-1 | 35 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1512 | J-23-1217 | AV-2 | 26 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1513 | J-23-1223 | AV-3 | 54 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1529 | J-1245 | SDRIVEBPS | 72 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1600 | J-1301 | J-1316 | 126 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1530 | SDRIVEBPS | J-344 | 68 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1255-H | H-10-PH17 | J-773 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1469 | PH22-FH1 | J-1184 | 37 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| P1625 | J-1342 | J-1343 | 170 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1627 | J-1340 | J-1341 | 171 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-822 | J-478 | J-479 | 81 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-596 | J-350 | RV-3CLOSE | 195 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| -1285-H | H-20-PH17 | J-783 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1441-H | J-846 | H-65-PH19 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1219-H | H-1-PH19 | J-757 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1282-H | H-19-PH17 | J-782 | 37 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1468 | PH22-FH2 | J-1183 | 30 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1220-H | H-2-PH19 | J-758 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1279-H | H-16-PH17 | J-781 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1371-H | J-809 | H-3-PH20 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-571 | J-329 | J-334 | 181 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1276-H | H-18-PH17 | J-780 | 19 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1372-H | J-811 | H-4-PH20 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-769 | J-138 | J-444 | 98 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-564 | J-329 | J-328 | 414 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-411 | RV-5(PUFFI | J-240 | 64 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1665 | J-1316 | LLAGE_PA | 38 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1667 | LLAGE_PA | J-319 | 915 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-1-H | J22-1168 | PH22-FH11 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-10-H | J22-1169 | PH22-FH12 | 46 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-11-H | J22-1173 | PH22-FH20 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-12-H | J22-1171 | PH22-FH14 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1370-H | J-808 | H-2-PH20 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-14-H | J22-1174 | PH22-FH18 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1437-H | J-839 | H-69-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1351-H | H-21-PH19 | J-805 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1467 | J22-887 | H-72-PH19 | 34 | 6 | 150 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-445 | J-240 | J-254 | 198 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1193-H | J-743 | H-5-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-412 | J-240 | J-131 | 563 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1442-H | J-845 | H-64-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1227-H | H-9-PH19 | J-759 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-92 | J-71 | J-17 | 238 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1225-H | H-7-PH19 | J-751 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1273-H | H-17-PH17 | J-779 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-15-H | J22-1175 | PH22-FH16 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-20-H | J22-1161 | PH22-FH6 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-23-H | J22-1164 | PH22-FH8 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-6-H | J22-1158 | PH22-FH3 | 11 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-7-H | J22-1159 | PH22-FH4 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-8-H | J22-1163 | PH22-FH7 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-9-H | J22-1165 | PH22-FH9 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1369-H | J-807 | H-1-PH20 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-714 | J-400 | J-414 | 113 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1436-H | J-836 | H-68-PH19 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1221-H | H-3-PH19 | J-756 | 14 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1222-H | H-4-PH19 | J-755 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1223-H | H-5-PH19 | J-752 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1449-H | J-856 | H-59-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1224-H | H-6-PH19 | J-753 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| -1438-H | J-840 | H-70-PH19 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1439-H | J-841 | H-67-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1177-H | J-731 | H-4-PH18 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| 22-N-13 | J22-1147 | J22-1170 | 53 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1373-H | J-812 | H-5-PH20 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1043 | J-649 | J-650 | 163 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1176-H | J-729 | H-3-PH18 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1448-H | J-855 | H-58-PH19 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1447-H | J-852 | H-60-PH19 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1044 | J-642 | J-651 | 144 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| -1270-H | H-15-PH17 | J-778 | 28 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1175-H | J-732 | H-2-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1374-H | J-813 | H-6-PH20 | 33 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1446-H | J-851 | H-61-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-326 | J-122 | WELL2 | 172 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1445-H | J-854 | H-57-PH19 | 32 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-330 | RV-3CLOSE | J-42 | 277 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 2 |
| P-771 | J-327 | J-445 | 252 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1375-H | J-816 | H-7-PH20 | 38 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1134 | J-706 | FH-801 | 68 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 On)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1267-H | H-14-PH17 | J-777 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1226-H | H-8-PH19 | J-749 | 21 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1264-H | H-13-PH17 | J-776 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1470 | PH22-FH19 | J22-902 | 46 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1376-H | J-817 | H-8-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-16 | J22-1092 | H17CSELEM | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-746 | J-436 | J-262 | 256 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 1551-1 | J-1278 | J-1258 | 28 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-13-H | J22-1172 | PH22-FH15 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-21 | J22-1166 | PH22-FH10 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-22 | J22-1170 | PH22-FH13 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 2-N-24 | J22-1160 | PH22-FH5 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1444-H | J-850 | H-62-PH19 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1377-H | J-818 | H-9-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1443-H | J-857 | H-63-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-408 | J-236 | RV-5(PUFFI | 68 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1258-H | H-11-PH17 | J-774 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1261-H | H-12-PH17 | J-775 | 22 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1440-H | J-842 | H-66-PH19 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-399 | J-237 | J-235 | 159 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.78 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.54 | Zone 3 |
| J-127 | 7.97 | 5,087 | 5,172 | 36.94 | Zone 2 |
| J-33 | 0 | 5,085 | 5,170 | 36.94 | Zone 2 |
| J-79 | 21.26 | 5,083 | 5,170 | 37.75 | Zone 2 |
| J-87 | 6.38 | 5,083 | 5,170 | 37.93 | Zone 2 |
| J-77 | 6.91 | 5,082 | 5,170 | 38.16 | Zone 2 |
| J-78 | 0 | 5,081 | 5,170 | 38.65 | Zone 2 |
| J-75 | 4.25 | 5,081 | 5,170 | 38.86 | Zone 2 |
| J-128 | 9.03 | 5,082 | 5,171 | 38.88 | Zone 2 |
| J-129 | 0 | 5,081 | 5,171 | 38.96 | Zone 2 |
| J-88 | 7.44 | 5,079 | 5,170 | 39.42 | Zone 2 |
| J-126 | 8.5 | 5,080 | 5,171 | 39.46 | Zone 2 |
| J-65 | 5.85 | 5,080 | 5,171 | 39.5 | Zone 2 |
| J-80 | 0 | 5,079 | 5,170 | 39.5 | Zone 2 |
| J-64 | 5.85 | 5,078 | 5,170 | 39.75 | Zone 2 |
| J-125 | 0 | 5,078 | 5,170 | 39.88 | Zone 2 |
| J-1329 | 7.84 | 5,083 | 5,175 | 39.92 | Zone 2 |
| J-83 | 6.38 | 5,077 | 5,170 | 40.1 | Zone 2 |
| J-742 | 0 | 5,189 | 5,282 | 40.29 | Zone 4 |
| J-1308 | 3.99 | 5,082 | 5,175 | 40.33 | Zone 2 |
| J-1304 | 3.99 | 5,082 | 5,175 | 40.34 | Zone 2 |
| J-760 | 0 | 5,189 | 5,282 | 40.34 | Zone 4 |
| J-241 | 0 | 5,189 | 5,282 | 40.39 | Zone 4 |
| ESELEMSCH | 2,254.19 | 5,073 | 5,166 | 40.53 | Zone 2 |
| H-5-PH18 | 0.00 | 5,189 | 5,282 | 40.54 | Zone 4 |
| J-130 | 7.97 | 5,077 | 5,171 | 40.57 | Zone 2 |
| J-743 | 4.74 | 5,188 | 5,282 | 40.72 | Zone 4 |
| J-82 | 0 | 5,076 | 5,170 | 40.77 | Zone 2 |
| H-9-PH19 | 0 | 5,188 | 5,282 | 40.98 | Zone 4 |
| J-81 | 10.63 | 5,073 | 5,167 | 41.04 | Zone 2 |
| J-759 | 0 | 5,187 | 5,282 | 41.16 | Zone 4 |
| J-133 | 10.63 | 5,075 | 5,170 | 41.26 | Zone 2 |
| J-84 | 7.44 | 5,074 | 5,170 | 41.41 | Zone 2 |
| J-76 | 2.66 | 5,075 | 5,170 | 41.42 | Zone 2 |
| J-89 | 0 | 5,074 | 5,170 | 41.48 | Zone 2 |
| J-240 | 0 | 5,076 | 5,172 | 41.63 | Zone 2 |
| J-747 | 3.88 | 5,186 | 5,282 | 41.73 | Zone 4 |
| J-124 | 0 | 5,072 | 5,168 | 41.81 | Zone 2 |
| J-91 | 0 | 5,071 | 5,168 | 41.88 | Zone 2 |
| J-98 | 0 | 5,072 | 5,169 | 41.94 | Zone 2 |
| J-90 | 6.38 | 5,072 | 5,169 | 42.04 | Zone 2 |
| J-132 | 0 | 5,074 | 5,171 | 42.05 | Zone 2 |
| J-134 | 0 | 5,072 | 5,169 | 42.1 | Zone 2 |
| J-44 | 10.1 | 5,071 | 5,168 | 42.12 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,282 | 42.13 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-355 | 0 | 5,071 | 5,168 | 42.14 | Zone 2 |
| J-66 | 7.44 | 5,073 | 5,170 | 42.2 | Zone 2 |
| J-749 | 0 | 5,185 | 5,282 | 42.3 | Zone 4 |
| J-93 | 0 | 5,072 | 5,169 | 42.33 | Zone 2 |
| J-1309 | 3.99 | 5,078 | 5,175 | 42.38 | Zone 2 |
| J-1328 | 7.84 | 5,077 | 5,175 | 42.45 | Zone 2 |
| J-1338 | 7.84 | 5,078 | 5,175 | 42.46 | Zone 2 |
| J-131 | 10.63 | 5,073 | 5,171 | 42.49 | Zone 2 |
| J-85 | 6.91 | 5,072 | 5,170 | 42.5 | Zone 2 |
| H-7-PH19 | 0 | 5,184 | 5,282 | 42.55 | Zone 4 |
| J-746 | 0 | 5,184 | 5,282 | 42.7 | Zone 4 |
| J-120 | 10.63 | 5,069 | 5,168 | 42.76 | Zone 2 |
| J-45 | 8.5 | 5,069 | 5,168 | 42.82 | Zone 2 |
| J-99 | 0 | 5,070 | 5,169 | 42.89 | Zone 2 |
| J-92 | 7.97 | 5,070 | 5,169 | 42.98 | Zone 2 |
| J-751 | 3.45 | 5,183 | 5,282 | 43.01 | Zone 4 |
| J-95 | 10.1 | 5,068 | 5,167 | 43.1 | Zone 2 |
| J-1325 | 7.31 | 5,076 | 5,175 | 43.13 | Zone 2 |
| J-1310 | 3.99 | 5,076 | 5,175 | 43.24 | Zone 2 |
| J-115 | 6.91 | 5,068 | 5,168 | 43.32 | Zone 2 |
| J-1307 | 3.99 | 5,075 | 5,175 | 43.36 | Zone 2 |
| J-1306 | 3.99 | 5,075 | 5,175 | 43.36 | Zone 2 |
| J-1305 | 3.99 | 5,075 | 5,175 | 43.37 | Zone 2 |
| J-1311 | 3.99 | 5,075 | 5,175 | 43.37 | Zone 2 |
| J-1312 | 3.99 | 5,075 | 5,175 | 43.37 | Zone 2 |
| J-106 | 9.03 | 5,067 | 5,168 | 43.64 | Zone 2 |
| J-121 | 0 | 5,067 | 5,168 | 43.77 | Zone 2 |
| J-40 | 10.1 | 5,069 | 5,170 | 43.8 | Zone 2 |
| J-1315 | 3.99 | 5,074 | 5,175 | 43.8 | Zone 2 |
| J-109 | 5.31 | 5,067 | 5,168 | 43.85 | Zone 2 |
| J-96 | 8.5 | 5,067 | 5,168 | 43.86 | Zone 2 |
| J-1326 | 7.31 | 5,074 | 5,175 | 44 | Zone 2 |
| J-105 | 0 | 5,066 | 5,168 | 44.05 | Zone 2 |
| J-1336 | 7.84 | 5,074 | 5,175 | 44.12 | Zone 2 |
| J-108 | 7.44 | 5,066 | 5,168 | 44.19 | Zone 2 |
| J-119 | 5.31 | 5,066 | 5,168 | 44.27 | Zone 2 |
| J-86 | 0 | 5,068 | 5,170 | 44.3 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,168 | 44.39 | Zone 2 |
| J-118 | 5.85 | 5,066 | 5,168 | 44.41 | Zone 2 |
| J-104 | 6.91 | 5,065 | 5,168 | 44.5 | Zone 2 |
| J-103 | 5.85 | 5,065 | 5,168 | 44.55 | Zone 2 |
| J-1314 | 7.84 | 5,073 | 5,175 | 44.55 | Zone 2 |
| J-1315-2 | 0 | 5,073 | 5,175 | 44.55 | Zone 2 |
| J-1314-1 | 7.84 | 5,073 | 5,175 | 44.56 | Zone 2 |
| J-1324 | 7.31 | 5,072 | 5,175 | 44.63 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,168 | 44.63 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-114 | 8.5 | 5,065 | 5,168 | 44.71 | Zone 2 |
| J-123 | 8.5 | 5,065 | 5,168 | 44.77 | Zone 2 |
| J-1315-1 | 7.84 | 5,072 | 5,176 | 44.77 | Zone 2 |
| J-1339 | 7.84 | 5,072 | 5,176 | 44.84 | Zone 2 |
| J-480 | 0 | 5,179 | 5,282 | 44.86 | Zone 4 |
| J-97 | 0 | 5,064 | 5,168 | 44.9 | Zone 2 |
| J-110 | 13.28 | 5,065 | 5,168 | 44.92 | Zone 2 |
| J-62 | 5.31 | 5,066 | 5,170 | 45.02 | Zone 2 |
| J-67 | 8.5 | 5,066 | 5,170 | 45.13 | Zone 2 |
| J-1327 | 7.31 | 5,071 | 5,175 | 45.17 | Zone 2 |
| J-1299 | 7.84 | 5,071 | 5,176 | 45.18 | Zone 2 |
| J-117 | 0 | 5,064 | 5,168 | 45.27 | Zone 2 |
| J-122 | 7.44 | 5,063 | 5,168 | 45.36 | Zone 2 |
| J-116 | 7.44 | 5,063 | 5,168 | 45.56 | Zone 2 |
| J-397 | 5.17 | 5,177 | 5,282 | 45.58 | Zone 4 |
| J-70 | 3.72 | 5,065 | 5,170 | 45.64 | Zone 2 |
| J-1302 | 3.99 | 5,070 | 5,176 | 45.79 | Zone 2 |
| J-396 | 6.03 | 5,177 | 5,282 | 45.8 | Zone 4 |
| J-1303 | 3.99 | 5,070 | 5,176 | 45.85 | Zone 2 |
| J-1301 | 3.99 | 5,070 | 5,176 | 45.9 | Zone 2 |
| H-6-PH19 | 0 | 5,176 | 5,282 | 45.94 | Zone 4 |
| J-111 | 9.57 | 5,063 | 5,169 | 45.95 | Zone 2 |
| J-39 | 8.5 | 5,064 | 5,170 | 45.97 | Zone 2 |
| J-275 | 7.44 | 5,062 | 5,168 | 46.01 | Zone 2 |
| J-1316 | 0 | 5,069 | 5,176 | 46.06 | Zone 2 |
| J-38 | 9.57 | 5,063 | 5,170 | 46.22 | Zone 2 |
| J-753 | 4.31 | 5,175 | 5,282 | 46.32 | Zone 4 |
| J-1298 | 0 | 5,068 | 5,176 | 46.73 | Zone 2 |
| J-PH19IRR2 | 0 | 5,174 | 5,282 | 47.13 | Zone 4 |
| J-398 | 4.95 | 5,173 | 5,282 | 47.18 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,282 | 47.2 | Zone 4 |
| J-234 | 3.02 | 5,211 | 5,320 | 47.33 | Zone 3 |
| J-752 | 4.31 | 5,173 | 5,282 | 47.46 | Zone 4 |
| J-1 | 0 | 5,206 | 5,316 | 47.52 | Zone 1 |
| J-100 | 6.91 | 5,060 | 5,169 | 47.55 | Zone 2 |
| J-101 | 0 | 5,059 | 5,169 | 47.63 | Zone 2 |
| J-1300 | 3.99 | 5,066 | 5,176 | 47.7 | Zone 2 |
| J-73 | 0 | 5,060 | 5,170 | 47.73 | Zone 2 |
| J-1342 | 7.84 | 5,065 | 5,176 | 47.89 | Zone 2 |
| J-1343 | 0 | 5,065 | 5,176 | 47.89 | Zone 2 |
| J-1335 | 7.84 | 5,065 | 5,176 | 48.02 | Zone 2 |
| J-1341 | 0 | 5,065 | 5,176 | 48.04 | Zone 2 |
| J-1340 | 7.84 | 5,065 | 5,176 | 48.17 | Zone 2 |
| J-61 | 9.57 | 5,059 | 5,170 | 48.26 | Zone 2 |
| J-2 | 0 | 5,202 | 5,314 | 48.59 | Zone 1 |
| J-112 | 11.16 | 5,057 | 5,169 | 48.76 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-74 | 9.03 | 5,058 | 5,170 | 48.92 | Zone 2 |
| J-274 | 5.31 | 5,055 | 5,168 | 48.93 | Zone 2 |
| J-72 | 11.69 | 5,057 | 5,170 | 49.11 | Zone 2 |
| J-60 | 8.5 | 5,057 | 5,170 | 49.16 | Zone 2 |
| J-17 | 0 | 5,057 | 5,171 | 49.24 | Zone 2 |
| J-102 | 10.63 | 5,056 | 5,170 | 49.4 | Zone 2 |
| J-71 | 0 | 5,056 | 5,171 | 49.71 | Zone 2 |
| J-113 | 2.13 | 5,054 | 5,169 | 49.77 | Zone 2 |
| J-59 | 5.31 | 5,057 | 5,172 | 50.06 | Zone 2 |
| J-43 | 5.31 | 5,055 | 5,171 | 50.17 | Zone 2 |
| J-157 | 0 | 5,054 | 5,170 | 50.35 | Zone 2 |
| J-235 | 0 | 5,204 | 5,321 | 50.47 | Zone 3 |
| H-4-PH19 | 0 | 5,165 | 5,282 | 50.69 | Zone 4 |
| J-481 | 0 | 5,165 | 5,282 | 50.91 | Zone 4 |
| J-755 | 4.31 | 5,165 | 5,282 | 50.93 | Zone 4 |
| J-237 | 3.45 | 5,202 | 5,321 | 51.18 | Zone 3 |
| J-57 | 7.44 | 5,053 | 5,172 | 51.28 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,282 | 51.46 | Zone 4 |
| J-69 | 0 | 5,051 | 5,170 | 51.64 | Zone 2 |
| J-744 | 0 | 5,163 | 5,282 | 51.81 | Zone 4 |
| J-68 | 7.44 | 5,050 | 5,170 | 52.03 | Zone 2 |
| J-756 | 4.31 | 5,162 | 5,282 | 52.03 | Zone 4 |
| WELL7 | 0 | 5,200 | 5,320 | 52.04 | Zone 1 |
| J-16 | 0 | 5,050 | 5,171 | 52.19 | Zone 2 |
| J-185 | 0 | 5,199 | 5,320 | 52.29 | Zone 3 |
| J-58 | 0 | 5,051 | 5,172 | 52.46 | Zone 2 |
| J-37 | 0 | 5,052 | 5,174 | 53.11 | Zone 2 |
| J-395 | 4.31 | 5,159 | 5,282 | 53.25 | Zone 4 |
| J-192 | 3.1 | 5,189 | 5,313 | 53.42 | Zone 1 |
| J-63 | 11.07 | 5,047 | 5,171 | 53.87 | Zone 2 |
| J-394 | 6.03 | 5,158 | 5,282 | 53.98 | Zone 4 |
| J-392 | 6.03 | 5,158 | 5,282 | 53.98 | Zone 4 |
| J-53 | 9.57 | 5,049 | 5,175 | 54.38 | Zone 2 |
| J-55 | 6.38 | 5,047 | 5,173 | 54.41 | Zone 2 |
| J-193 | 5.32 | 5,175 | 5,301 | 54.42 | Zone 1 |
| J-50 | 6.38 | 5,046 | 5,172 | 54.55 | Zone 2 |
| J-805 | 0 | 5,045 | 5,172 | 55.01 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,318 | 55.01 | Zone 1 |
| H-21-PH19 | 0 | 5,045 | 5,172 | 55.18 | Zone 4 |
| J-3 | 0 | 5,179 | 5,307 | 55.2 | Zone 1 |
| J-255 | 0 | 5,045 | 5,173 | 55.24 | Zone 2 |
| J-1246 | 0 | 5,049 | 5,177 | 55.38 | Zone 2 |
| J-56 | 9.57 | 5,044 | 5,172 | 55.47 | Zone 2 |
| J-399 | 0 | 5,154 | 5,282 | 55.64 | Zone 4 |
| J-15 | 6.19 | 5,045 | 5,173 | 55.82 | Zone 2 |
| J-51 | 4.78 | 5,045 | 5,174 | 55.84 | Zone 2 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-652 | 6.66 | 5,148 | 5,277 | 55.96 | Zone 1 |
| ALLEYCHUR | 10.62 | 5,043 | 5,173 | 55.99 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,282 | 56.01 | Zone 4 |
| J-42 | 3.1 | 5,043 | 5,173 | 56.03 | Zone 2 |
| J-194 | 7.97 | 5,043 | 5,173 | 56.14 | Zone 2 |
| J-758 | 4.31 | 5,152 | 5,282 | 56.35 | Zone 4 |
| J-54 | 0 | 5,045 | 5,175 | 56.38 | Zone 2 |
| J-797 | 9.57 | 5,047 | 5,178 | 56.84 | Zone 2 |
| J-52 | 3.72 | 5,043 | 5,174 | 56.87 | Zone 2 |
| J-PH19IRR1 | 0 | 5,151 | 5,282 | 57.02 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,282 | 57.03 | Zone 4 |
| ANDYKEWE | 0 | 5,046 | 5,178 | 57.29 | Zone 2 |
| J-757 | 4.31 | 5,150 | 5,282 | 57.36 | Zone 4 |
| 49RENOTRU | 3.1 | 5,042 | 5,175 | 57.54 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,183 | 57.68 | Zone 2 |
| J-1262 | 3.1 | 5,172 | 5,306 | 57.91 | Zone 1 |
| J-140 | 11.21 | 5,185 | 5,319 | 58.05 | Zone 3 |
| J-393 | 5.17 | 5,147 | 5,282 | 58.76 | Zone 4 |
| J-391 | 4.31 | 5,146 | 5,282 | 58.95 | Zone 4 |
| J-142 | 5.6 | 5,182 | 5,318 | 58.96 | Zone 3 |
| J-448 | 7.32 | 5,134 | 5,272 | 59.75 | Zone 1 |
| FH-925 | 0 | 5,144 | 5,282 | 60.03 | Zone 4 |
| J-23-1188 | 1.29 | 5,143 | 5,282 | 60.34 | Zone 4 |
| J-482 | 0 | 5,142 | 5,282 | 60.64 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,282 | 60.65 | Zone 4 |
| J-23-1191 | 0 | 5,142 | 5,282 | 60.69 | Zone 4 |
| J-23-1193 | 3.02 | 5,142 | 5,282 | 60.73 | Zone 4 |
| J-23-1190 | 0.86 | 5,142 | 5,282 | 60.73 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,282 | 60.75 | Zone 4 |
| J-23-1189 | 1.29 | 5,142 | 5,282 | 60.75 | Zone 4 |
| J-23-1187 | 0.86 | 5,142 | 5,282 | 60.81 | Zone 4 |
| J-830 | 0 | 5,141 | 5,282 | 60.96 | Zone 4 |
| J-4 | 8.42 | 5,163 | 5,304 | 61.13 | Zone 1 |
| J-679 | 7.33 | 5,140 | 5,282 | 61.45 | Zone 4 |
| J-1184 | 0 | 5,140 | 5,282 | 61.57 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,282 | 61.63 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,282 | 61.67 | Zone 4 |
| J-685 | 0 | 5,139 | 5,282 | 61.86 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,282 | 61.91 | Zone 4 |
| J-836 | 3.88 | 5,139 | 5,282 | 61.96 | Zone 4 |
| J-390 | 0 | 5,139 | 5,282 | 61.97 | Zone 4 |
| J-819 | 0 | 5,139 | 5,282 | 61.99 | Zone 4 |
| J-829 | 0 | 5,139 | 5,282 | 62.16 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,282 | 62.18 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,282 | 62.29 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,282 | 62.36 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-841 | 0 | 5,138 | 5,282 | 62.43 | Zone 4 |
| J-820 | 0 | 5,137 | 5,282 | 63.05 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,282 | 63.09 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,282 | 63.11 | Zone 4 |
| J-187 | 0 | 5,173 | 5,319 | 63.35 | Zone 3 |
| J-815 | 4.95 | 5,136 | 5,282 | 63.37 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,282 | 63.43 | Zone 4 |
| J-678 | 0 | 5,135 | 5,282 | 63.79 | Zone 4 |
| J-352 | 5.6 | 5,134 | 5,282 | 64.08 | Zone 4 |
| J-145 | 5.17 | 5,170 | 5,318 | 64.16 | Zone 3 |
| FH-922 | 0 | 5,134 | 5,282 | 64.43 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,282 | 64.61 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,282 | 64.73 | Zone 4 |
| J-810 | 0 | 5,133 | 5,282 | 64.84 | Zone 4 |
| J-141 | 4.74 | 5,169 | 5,318 | 64.88 | Zone 3 |
| J-816 | 5.17 | 5,132 | 5,282 | 65.01 | Zone 4 |
| J-730 | 0 | 5,131 | 5,282 | 65.37 | Zone 4 |
| J-806 | 0 | 5,131 | 5,282 | 65.45 | Zone 4 |
| J-732 | 0 | 5,131 | 5,282 | 65.51 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,282 | 65.52 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,282 | 65.61 | Zone 4 |
| J-677 | 8.62 | 5,130 | 5,282 | 65.8 | Zone 4 |
| J-688 | 4.95 | 5,130 | 5,282 | 65.95 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,282 | 65.98 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,282 | 66.01 | Zone 4 |
| J-23-1195 | 1.29 | 5,130 | 5,282 | 66.02 | Zone 4 |
| J-23-1196 | 1.72 | 5,130 | 5,282 | 66.03 | Zone 4 |
| J-811 | 5.6 | 5,130 | 5,282 | 66.04 | Zone 4 |
| J-23-1194 | 2.15 | 5,130 | 5,282 | 66.13 | Zone 4 |
| J-687 | 0 | 5,129 | 5,282 | 66.29 | Zone 4 |
| J-807 | 4.74 | 5,129 | 5,282 | 66.35 | Zone 4 |
| J-23-1197 | 1.29 | 5,129 | 5,282 | 66.47 | Zone 4 |
| J-675 | 0 | 5,129 | 5,282 | 66.51 | Zone 4 |
| J-646 | 10.65 | 5,123 | 5,277 | 66.68 | Zone 1 |
| J-447 | 5.32 | 5,118 | 5,272 | 66.81 | Zone 1 |
| J-839 | 0 | 5,128 | 5,282 | 66.92 | Zone 4 |
| J-483 | 0 | 5,128 | 5,282 | 66.96 | Zone 4 |
| H-69-PH19 | 0 | 5,127 | 5,282 | 67.07 | Zone 4 |
| J-676 | 0 | 5,127 | 5,282 | 67.09 | Zone 4 |
| FH-930 | 0 | 5,127 | 5,282 | 67.25 | Zone 4 |
| J-443 | 4.31 | 5,127 | 5,282 | 67.3 | Zone 4 |
| ERTOWNCA | 3.1 | 5,124 | 5,280 | 67.42 | Zone 1 |
| J-653 | 6.66 | 5,121 | 5,277 | 67.44 | Zone 1 |
| J-576 | 5.17 | 5,126 | 5,282 | 67.51 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,282 | 67.69 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,282 | 67.73 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-842 | 3.88 | 5,126 | 5,282 | 67.83 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,282 | 67.92 | Zone 4 |
| H-66-PH19 | 0 | 5,125 | 5,282 | 68.01 | Zone 4 |
| J-143 | 3.88 | 5,161 | 5,318 | 68.09 | Zone 3 |
| J-844 | 2.15 | 5,125 | 5,282 | 68.18 | Zone 4 |
| J-645 | 0 | 5,119 | 5,277 | 68.24 | Zone 1 |
| H-5-PH20 | 0 | 5,125 | 5,282 | 68.32 | Zone 4 |
| J-189 | 0 | 5,145 | 5,303 | 68.34 | Zone 1 |
| J-736 | 6.03 | 5,124 | 5,282 | 68.44 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,282 | 68.71 | Zone 4 |
| J-328 | 0 | 5,114 | 5,272 | 68.79 | Zone 1 |
| J-190 | 0 | 5,143 | 5,302 | 69.02 | Zone 1 |
| J-817 | 0 | 5,122 | 5,282 | 69.33 | Zone 4 |
| J-846 | 0 | 5,122 | 5,282 | 69.47 | Zone 4 |
| J-690 | 0 | 5,122 | 5,282 | 69.5 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,282 | 69.58 | Zone 4 |
| J-674 | 0 | 5,121 | 5,282 | 69.66 | Zone 4 |
| J-343 | 5.99 | 5,109 | 5,269 | 69.7 | Zone 1 |
| J-159 | 7.32 | 5,108 | 5,269 | 69.76 | Zone 1 |
| H-6-PH20 | 0 | 5,121 | 5,282 | 69.82 | Zone 4 |
| J-808 | 0 | 5,121 | 5,282 | 69.9 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,282 | 69.91 | Zone 4 |
| J-843 | 0 | 5,121 | 5,282 | 69.92 | Zone 4 |
| J-812 | 0 | 5,121 | 5,282 | 69.94 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,282 | 69.94 | Zone 4 |
| J-389 | 1.72 | 5,120 | 5,282 | 70.1 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,282 | 70.13 | Zone 4 |
| J-644 | 11.31 | 5,115 | 5,277 | 70.15 | Zone 1 |
| J-23-1201 | 1.72 | 5,119 | 5,282 | 70.61 | Zone 4 |
| J-348 | 4.31 | 5,119 | 5,282 | 70.66 | Zone 4 |
| J-23-1202 | 2.15 | 5,119 | 5,282 | 70.74 | Zone 4 |
| J-813 | 5.17 | 5,118 | 5,282 | 71.12 | Zone 4 |
| J-184 | 4.95 | 5,118 | 5,282 | 71.14 | Zone 4 |
| J-818 | 4.74 | 5,118 | 5,282 | 71.15 | Zone 4 |
| J-680 | 5.6 | 5,118 | 5,282 | 71.18 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,282 | 71.33 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,282 | 71.37 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,282 | 71.41 | Zone 4 |
| J-823 | 0 | 5,117 | 5,282 | 71.42 | Zone 4 |
| J-809 | 4.74 | 5,117 | 5,282 | 71.43 | Zone 4 |
| J-729 | 0 | 5,117 | 5,282 | 71.6 | Zone 4 |
| J-139 | 0 | 5,153 | 5,319 | 71.81 | Zone 3 |
| J-346 | 0 | 5,116 | 5,282 | 71.96 | Zone 4 |
| J-735 | 0 | 5,116 | 5,282 | 72 | Zone 4 |
| J-160 | 5.99 | 5,103 | 5,269 | 72 | Zone 1 |
| J-851 | 3.45 | 5,116 | 5,282 | 72.05 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-61-PH19 | 0 | 5,116 | 5,282 | 72.05 | Zone 4 |
| J-334 | 0 | 5,106 | 5,272 | 72.07 | Zone 1 |
| J-1183 | 0 | 5,116 | 5,282 | 72.08 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,282 | 72.22 | Zone 4 |
| J-770 | 0 | 5,115 | 5,282 | 72.23 | Zone 4 |
| J-306 | 5.32 | 5,134 | 5,300 | 72.27 | Zone 1 |
| FH-928 | 0 | 5,115 | 5,282 | 72.28 | Zone 4 |
| J-833 | 0 | 5,115 | 5,282 | 72.31 | Zone 4 |
| H-64-PH19 | 0 | 5,115 | 5,282 | 72.33 | Zone 4 |
| J-840 | 4.31 | 5,115 | 5,282 | 72.48 | Zone 4 |
| J-845 | 4.31 | 5,115 | 5,282 | 72.55 | Zone 4 |
| J-5 | 5.32 | 5,133 | 5,301 | 72.59 | Zone 1 |
| H-70-PH19 | 0 | 5,115 | 5,282 | 72.62 | Zone 4 |
| J22-886 | 1.29 | 5,114 | 5,282 | 72.79 | Zone 4 |
| J-814 | 0 | 5,114 | 5,282 | 72.8 | Zone 4 |
| H-58-PH19 | 0 | 5,114 | 5,282 | 72.88 | Zone 4 |
| J-333 | 6.66 | 5,104 | 5,272 | 72.89 | Zone 1 |
| J-855 | 3.88 | 5,114 | 5,282 | 72.92 | Zone 4 |
| J-442 | 4.74 | 5,114 | 5,282 | 72.95 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,282 | 72.97 | Zone 4 |
| J22-884 | 1.29 | 5,114 | 5,282 | 73.02 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,282 | 73.05 | Zone 4 |
| J-832 | 0 | 5,113 | 5,282 | 73.09 | Zone 4 |
| J-689 | 3.88 | 5,113 | 5,282 | 73.1 | Zone 4 |
| J22-1079 | 2.88 | 5,113 | 5,282 | 73.11 | Zone 4 |
| J22-1159 | 1.29 | 5,113 | 5,282 | 73.13 | Zone 4 |
| J-852 | 3.45 | 5,113 | 5,282 | 73.15 | Zone 4 |
| J22-1158 | 1.29 | 5,113 | 5,282 | 73.15 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,282 | 73.17 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,282 | 73.21 | Zone 4 |
| J-856 | 3.88 | 5,113 | 5,282 | 73.22 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,282 | 73.24 | Zone 4 |
| J-329 | 5.32 | 5,103 | 5,272 | 73.25 | Zone 1 |
| J-650 | 0 | 5,113 | 5,282 | 73.32 | Zone 4 |
| MIDDLESCH | 4.95 | 5,112 | 5,282 | 73.69 | Zone 4 |
| J-441 | 4.74 | 5,112 | 5,282 | 73.71 | Zone 4 |
| J-783 | 3.02 | 5,112 | 5,282 | 73.73 | Zone 4 |
| J-434 | 3.45 | 5,112 | 5,282 | 73.74 | Zone 4 |
| J-570 | 0 | 5,112 | 5,282 | 73.74 | Zone 4 |
| H-20-PH17 | 0 | 5,112 | 5,282 | 73.81 | Zone 4 |
| J-854 | 3.88 | 5,112 | 5,282 | 73.86 | Zone 4 |
| H-57-PH19 | 0 | 5,112 | 5,282 | 73.94 | Zone 4 |
| J-433 | 1.72 | 5,111 | 5,282 | 74.15 | Zone 4 |
| J-734 | 0 | 5,111 | 5,282 | 74.17 | Zone 4 |
| J-195 | 0 | 5,111 | 5,282 | 74.21 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,282 | 74.31 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-919 | 5.17 | 5,111 | 5,282 | 74.34 | Zone 4 |
| J-681 | 0 | 5,110 | 5,282 | 74.44 | Zone 4 |
| H-72-PH19 | 0 | 5,110 | 5,282 | 74.54 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,282 | 74.66 | Zone 4 |
| J22-1082 | 4.95 | 5,110 | 5,282 | 74.75 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,282 | 74.84 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,282 | 74.86 | Zone 4 |
| J-340 | 3.99 | 5,097 | 5,270 | 74.87 | Zone 1 |
| J-144 | 0 | 5,145 | 5,318 | 74.89 | Zone 3 |
| J-648 | 3.33 | 5,104 | 5,277 | 74.95 | Zone 1 |
| J-649 | 0 | 5,109 | 5,282 | 74.96 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,282 | 74.97 | Zone 4 |
| J-446 | 5.32 | 5,099 | 5,272 | 75.01 | Zone 1 |
| J-27 | 0 | 5,102 | 5,275 | 75.08 | Zone 1 |
| PH22-FH6 | 0 | 5,109 | 5,282 | 75.11 | Zone 4 |
| J22-1161 | 1.29 | 5,109 | 5,282 | 75.17 | Zone 4 |
| J-835 | 0 | 5,109 | 5,282 | 75.18 | Zone 4 |
| J-834 | 0 | 5,109 | 5,282 | 75.23 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,282 | 75.23 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,282 | 75.25 | Zone 4 |
| J-596 | 0 | 5,105 | 5,278 | 75.26 | Zone 1 |
| H-62-PH19 | 0 | 5,108 | 5,282 | 75.31 | Zone 4 |
| J-603 | 6.66 | 5,103 | 5,277 | 75.35 | Zone 1 |
| J-571 | 0 | 5,108 | 5,282 | 75.44 | Zone 4 |
| J22-1163 | 1.29 | 5,108 | 5,282 | 75.45 | Zone 4 |
| J-731 | 0 | 5,108 | 5,282 | 75.46 | Zone 4 |
| J-25 | 0 | 5,104 | 5,279 | 75.48 | Zone 1 |
| J-286 | 13.57 | 5,108 | 5,282 | 75.54 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,282 | 75.59 | Zone 4 |
| J-332 | 0 | 5,098 | 5,272 | 75.62 | Zone 1 |
| J-387 | 0 | 5,126 | 5,301 | 75.8 | Zone 1 |
| J-847 | 0 | 5,107 | 5,282 | 75.84 | Zone 4 |
| J-642 | 0 | 5,107 | 5,282 | 75.9 | Zone 4 |
| J22-890 | 0.86 | 5,107 | 5,282 | 75.99 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,282 | 76.07 | Zone 4 |
| J-284 | 6.9 | 5,106 | 5,282 | 76.16 | Zone 4 |
| J-647 | 6.66 | 5,101 | 5,277 | 76.16 | Zone 1 |
| J-330 | 4.66 | 5,096 | 5,272 | 76.27 | Zone 1 |
| J-667 | 0 | 5,106 | 5,282 | 76.34 | Zone 4 |
| J-166 | 5.32 | 5,093 | 5,270 | 76.38 | Zone 1 |
| J-850 | 3.45 | 5,106 | 5,282 | 76.5 | Zone 4 |
| J-765 | 0 | 5,106 | 5,282 | 76.52 | Zone 4 |
| H-63-PH19 | 0 | 5,105 | 5,282 | 76.57 | Zone 4 |
| J-857 | 0 | 5,105 | 5,282 | 76.65 | Zone 4 |
| J-445 | 0 | 5,095 | 5,272 | 76.8 | Zone 1 |
| J-858 | 3.45 | 5,105 | 5,282 | 76.96 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-929 | 0 | 5,104 | 5,282 | 77.06 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,282 | 77.13 | Zone 4 |
| J-23-1206 | 1.29 | 5,104 | 5,282 | 77.31 | Zone 4 |
| J-769 | 0 | 5,104 | 5,282 | 77.35 | Zone 4 |
| J-203 | 4.31 | 5,103 | 5,282 | 77.45 | Zone 4 |
| J-853 | 0 | 5,103 | 5,282 | 77.5 | Zone 4 |
| J-595 | 2.66 | 5,099 | 5,278 | 77.53 | Zone 1 |
| H-19-PH17 | 0 | 5,103 | 5,282 | 77.54 | Zone 4 |
| J-764 | 4.95 | 5,103 | 5,282 | 77.55 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,282 | 77.59 | Zone 4 |
| J-23-1205 | 1.29 | 5,103 | 5,282 | 77.63 | Zone 4 |
| J-733 | 6.03 | 5,103 | 5,282 | 77.66 | Zone 4 |
| J-651 | 0 | 5,103 | 5,282 | 77.72 | Zone 4 |
| J-283 | 4.74 | 5,103 | 5,282 | 77.73 | Zone 4 |
| J-782 | 3.02 | 5,103 | 5,282 | 77.79 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,282 | 77.82 | Zone 4 |
| J-191 | 8.42 | 5,122 | 5,301 | 77.85 | Zone 1 |
| J22-1165 | 1.72 | 5,102 | 5,282 | 77.92 | Zone 4 |
| J-799 | 0 | 5,102 | 5,282 | 77.94 | Zone 4 |
| J-336 | 5.32 | 5,091 | 5,271 | 77.95 | Zone 1 |
| J22-1164 | 1.29 | 5,102 | 5,282 | 77.96 | Zone 4 |
| J-290 | 0 | 5,120 | 5,300 | 77.98 | Zone 1 |
| J22-1084 | 0 | 5,102.15 | 5,282.17 | 78 | Zone 4 |
| J-666 | 5.6 | 5,102.13 | 5,282.19 | 78.02 | Zone 4 |
| PH22-FH8 | 0 | 5,102.01 | 5,282.17 | 78.07 | Zone 4 |
| J-23-1203 | 2.15 | 5,101.82 | 5,282.18 | 78.15 | Zone 4 |
| J22-892 | 0.86 | 5,101.66 | 5,282.17 | 78.22 | Zone 4 |
| J-606 | 9.32 | 5,096.31 | 5,276.99 | 78.29 | Zone 1 |
| J-1071 | 0 | 5,101.47 | 5,282.17 | 78.3 | Zone 4 |
| J-768 | 0 | 5,101.09 | 5,282.17 | 78.46 | Zone 4 |
| J23-IRR | 0 | 5,101.05 | 5,282.18 | 78.48 | Zone 4 |
| J-432 | 1.72 | 5,100.59 | 5,281.93 | 78.57 | Zone 4 |
| J-683 | 5.6 | 5,100.73 | 5,282.18 | 78.62 | Zone 4 |
| J22-1085 | 0 | 5,100.66 | 5,282.18 | 78.65 | Zone 4 |
| J22-1166 | 0 | 5,100.41 | 5,282.18 | 78.76 | Zone 4 |
| J-592 | 8.65 | 5,095.57 | 5,277.34 | 78.76 | Zone 1 |
| PH22-FH10 | 0 | 5,100.33 | 5,282.18 | 78.8 | Zone 4 |
| J-204 | 4.31 | 5,099.81 | 5,281.71 | 78.82 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,318.51 | 78.83 | Zone 3 |
| H-18-PH17 | 0 | 5,100.15 | 5,282.17 | 78.87 | Zone 4 |
| H-16-PH17 | 0 | 5,099.69 | 5,282.17 | 79.07 | Zone 4 |
| J-196 | 0 | 5,099.35 | 5,281.93 | 79.11 | Zone 4 |
| J-780 | 5.17 | 5,099.49 | 5,282.17 | 79.16 | Zone 4 |
| J-763 | 0 | 5,099.48 | 5,282.17 | 79.16 | Zone 4 |
| J22-1168 | 1.72 | 5,099.28 | 5,282.18 | 79.25 | Zone 4 |
| H-17-PH17 | 0 | 5,099.26 | 5,282.17 | 79.26 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| PH22-FH11 | 0 | 5,099.17 | 5,282.18 | 79.3 | Zone 4 |
| J-327 | 7.32 | 5,089.27 | 5,272.36 | 79.33 | Zone 1 |
| J-341 | 0 | 5,087.54 | 5,270.65 | 79.34 | Zone 1 |
| PH22-FH13 | 0 | 5,098.86 | 5,282.18 | 79.43 | Zone 4 |
| J22-1170 | 1.72 | 5,098.86 | 5,282.18 | 79.43 | Zone 4 |
| J-248 | 6.03 | 5,135.17 | 5,318.55 | 79.46 | Zone 3 |
| J-781 | 4.31 | 5,098.79 | 5,282.17 | 79.46 | Zone 4 |
| J-23-1204 | 2.15 | 5,098.75 | 5,282.18 | 79.48 | Zone 4 |
| BLDG3-CCC0 | 2.88 | 5,098.71 | 5,282.19 | 79.5 | Zone 4 |
| J-281 | 3.45 | 5,098.63 | 5,282.13 | 79.51 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,282.18 | 79.53 | Zone 4 |
| J22-1086 | 0 | 5,098.57 | 5,282.19 | 79.56 | Zone 4 |
| J22-1171 | 1.72 | 5,098.51 | 5,282.18 | 79.58 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,282.17 | 79.58 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,282.17 | 79.64 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,282.17 | 79.66 | Zone 4 |
| PH22-FH14 | 0 | 5,098.28 | 5,282.18 | 79.68 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,318.51 | 79.69 | Zone 3 |
| J-704 | 4.95 | 5,098.03 | 5,282.19 | 79.8 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,282.18 | 79.83 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,282.19 | 79.87 | Zone 4 |
| J-339 | 4.66 | 5,085.67 | 5,270.11 | 79.91 | Zone 1 |
| J-388 | 0 | 5,115.58 | 5,300.07 | 79.94 | Zone 1 |
| J22-1169 | 2.15 | 5,097.42 | 5,282.18 | 80.06 | Zone 4 |
| H-15-PH17 | 0 | 5,097.37 | 5,282.17 | 80.08 | Zone 4 |
| PH22-FH12 | 0 | 5,097.31 | 5,282.18 | 80.1 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,282.19 | 80.14 | Zone 4 |
| PH22-FH15 | 0 | 5,097.23 | 5,282.18 | 80.14 | Zone 4 |
| J22-1172 | 3.88 | 5,097.21 | 5,282.18 | 80.15 | Zone 4 |
| J-484 | 4.74 | 5,097.17 | 5,282.19 | 80.17 | Zone 4 |
| J-705 | 0 | 5,097.12 | 5,282.19 | 80.19 | Zone 4 |
| J-767 | 4.95 | 5,097.07 | 5,282.18 | 80.2 | Zone 4 |
| J-778 | 6.46 | 5,096.86 | 5,282.17 | 80.3 | Zone 4 |
| J-205 | 4.31 | 5,096.27 | 5,281.65 | 80.33 | Zone 4 |
| J-671 | 4.95 | 5,096.69 | 5,282.18 | 80.38 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,282.19 | 80.39 | Zone 4 |
| J22-898 | 0 | 5,096.50 | 5,282.18 | 80.46 | Zone 4 |
| J-714 | 0 | 5,096.31 | 5,282.18 | 80.54 | Zone 4 |
| H-13-PH17 | 0 | 5,096.07 | 5,282.17 | 80.64 | Zone 4 |
| J-485 | 10.12 | 5,095.99 | 5,282.19 | 80.68 | Zone 4 |
| J-23-1207 | 2.15 | 5,095.92 | 5,282.21 | 80.72 | Zone 4 |
| J-325 | 7.53 | 5,095.74 | 5,282.14 | 80.76 | Zone 4 |
| H-11-PH17 | 0 | 5,095.76 | 5,282.18 | 80.78 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,282.17 | 80.78 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,282.18 | 80.79 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,282.19 | 80.86 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-776 | 4.31 | 5,095.41 | 5,282.17 | 80.93 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,282.14 | 80.93 | Zone 4 |
| H-14-PH17 | 0 | 5,095.35 | 5,282.17 | 80.95 | Zone 4 |
| J22-874 | 0.86 | 5,095.38 | 5,282.21 | 80.96 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,282.19 | 81 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.21 | 81 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,282.19 | 81 | Zone 4 |
| J-206 | 4.31 | 5,094.63 | 5,281.61 | 81.02 | Zone 4 |
| PH22-FH20 | 0 | 5,095.18 | 5,282.21 | 81.04 | Zone 4 |
| J-161 | 5.99 | 5,082.45 | 5,269.59 | 81.09 | Zone 1 |
| J-431 | 2.15 | 5,094.71 | 5,281.86 | 81.09 | Zone 4 |
| J-1260 | 0 | 5,094.97 | 5,282.14 | 81.1 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.18 | 81.1 | Zone 4 |
| J22-1087 | 7.83 | 5,094.99 | 5,282.21 | 81.12 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,281.71 | 81.14 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,282.18 | 81.22 | Zone 4 |
| J-771 | 8.19 | 5,094.49 | 5,282.18 | 81.33 | Zone 4 |
| J-1272 | 2.59 | 5,094.45 | 5,282.14 | 81.33 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,281.86 | 81.35 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.17 | 81.35 | Zone 4 |
| J-23-1228 | 3.45 | 5,094.40 | 5,282.20 | 81.37 | Zone 4 |
| J-660 | 3.45 | 5,094.39 | 5,282.19 | 81.38 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.18 | 81.41 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,270.35 | 81.41 | Zone 1 |
| H-12-PH17 | 0 | 5,094.20 | 5,282.18 | 81.45 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,282.19 | 81.57 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,282.18 | 81.68 | Zone 4 |
| H-10-PH17 | 0 | 5,093.60 | 5,282.18 | 81.71 | Zone 4 |
| J-657 | 4.31 | 5,093.38 | 5,282.19 | 81.81 | Zone 4 |
| J-590 | 5.99 | 5,088.31 | 5,277.16 | 81.83 | Zone 1 |
| J-775 | 4.31 | 5,093.32 | 5,282.18 | 81.83 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,282.19 | 81.86 | Zone 4 |
| J-23-1212 | 1.72 | 5,093.24 | 5,282.25 | 81.9 | Zone 4 |
| J-207 | 4.31 | 5,092.46 | 5,281.59 | 81.95 | Zone 4 |
| J-662 | 4.31 | 5,092.99 | 5,282.20 | 81.98 | Zone 4 |
| J22-1088 | 2.88 | 5,092.98 | 5,282.25 | 82.01 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.25 | 82.05 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,282.18 | 82.05 | Zone 4 |
| J22-880 | 1.29 | 5,092.85 | 5,282.25 | 82.07 | Zone 4 |
| PH22-FH18 | 0 | 5,092.73 | 5,282.25 | 82.12 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,281.66 | 82.14 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.18 | 82.17 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.20 | 82.2 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,281.61 | 82.26 | Zone 4 |
| 22-IRR-117 | 0 | 5,092.39 | 5,282.26 | 82.27 | Zone 4 |
| J-658 | 6.46 | 5,092.30 | 5,282.19 | 82.28 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-427 | 6.66 | 5,082.41 | 5,272.37 | 82.31 | Zone 1 |
| 4-VILLAGEO | 4.95 | 5,092.08 | 5,282.18 | 82.37 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.19 | 82.37 | Zone 4 |
| J-23-1208 | 3.02 | 5,092.02 | 5,282.19 | 82.4 | Zone 4 |
| J-604 | 3.99 | 5,086.47 | 5,276.75 | 82.45 | Zone 1 |
| J-23-1209 | 0 | 5,091.90 | 5,282.19 | 82.45 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,282.19 | 82.47 | Zone 4 |
| J-655 | 4.31 | 5,091.87 | 5,282.21 | 82.48 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,282.61 | 82.48 | Zone 4 |
| J-198 | 5.6 | 5,091.35 | 5,281.79 | 82.52 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,282.19 | 82.54 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,282.18 | 82.56 | Zone 4 |
| J-466 | 6.46 | 5,091.59 | 5,282.20 | 82.59 | Zone 4 |
| J-597 | 7.99 | 5,085.96 | 5,276.59 | 82.6 | Zone 1 |
| J-656 | 0 | 5,091.48 | 5,282.19 | 82.64 | Zone 4 |
| J-23-1216 | 1.29 | 5,091.71 | 5,282.45 | 82.65 | Zone 4 |
| J-454 | 5.17 | 5,091.37 | 5,282.20 | 82.69 | Zone 4 |
| J-664 | 3.88 | 5,091.23 | 5,282.21 | 82.75 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,282.19 | 82.76 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,282.45 | 82.78 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,282.18 | 82.8 | Zone 4 |
| J-1266 | 1.29 | 5,091.08 | 5,282.18 | 82.8 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,282.45 | 82.83 | Zone 4 |
| J-23-1215 | 0.86 | 5,091.25 | 5,282.43 | 82.84 | Zone 4 |
| J-1257 | 5.17 | 5,090.93 | 5,282.15 | 82.86 | Zone 4 |
| J-23-1219 | 0.86 | 5,091.11 | 5,282.45 | 82.91 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,282.19 | 82.93 | Zone 4 |
| J-1279-IRR | 4.95 | 5,090.60 | 5,282.15 | 83 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,282.55 | 83.03 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.20 | 83.07 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,282.48 | 83.08 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,282.52 | 83.11 | Zone 4 |
| J-1259 | 2.59 | 5,090.30 | 5,282.15 | 83.13 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.30 | 83.14 | Zone 4 |
| J-1255 | 3.88 | 5,090.25 | 5,282.17 | 83.16 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.29 | 83.2 | Zone 4 |
| J-453 | 7.33 | 5,090.15 | 5,282.21 | 83.22 | Zone 4 |
| J-23-1213 | 2.59 | 5,090.32 | 5,282.40 | 83.23 | Zone 4 |
| J-23-1214 | 0.43 | 5,090.30 | 5,282.41 | 83.24 | Zone 4 |
| J22-882 | 1.72 | 5,090.19 | 5,282.31 | 83.24 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.21 | 83.27 | Zone 4 |
| PH22-FH16 | 0 | 5,090.10 | 5,282.30 | 83.28 | Zone 4 |
| J-199 | 6.03 | 5,089.28 | 5,281.71 | 83.38 | Zone 4 |
| J-661 | 3.88 | 5,089.72 | 5,282.20 | 83.4 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.21 | 83.6 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.21 | 83.71 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-331 | 5.99 | 5,079.08 | 5,272.37 | 83.75 | Zone 1 |
| J-452 | 0 | 5,088.84 | 5,282.23 | 83.8 | Zone 4 |
| J-337 | 9.98 | 5,077.64 | 5,271.04 | 83.8 | Zone 1 |
| J-663 | 0 | 5,088.73 | 5,282.21 | 83.84 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.23 | 83.86 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.27 | 84.07 | Zone 4 |
| J-200 | 6.03 | 5,087.30 | 5,281.66 | 84.21 | Zone 4 |
| J-162 | 6.66 | 5,074.91 | 5,269.37 | 84.26 | Zone 1 |
| J-1256 | 2.59 | 5,087.68 | 5,282.16 | 84.27 | Zone 4 |
| J-324 | 2.15 | 5,087.57 | 5,282.15 | 84.31 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,282.25 | 84.4 | Zone 4 |
| ELEMSCHO | 9.89 | 5,087.43 | 5,282.29 | 84.43 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,282.29 | 84.48 | Zone 4 |
| J-589 | 7.99 | 5,082.17 | 5,277.16 | 84.49 | Zone 1 |
| J22-1092 | 0 | 5,087.28 | 5,282.29 | 84.5 | Zone 4 |
| J-440 | 2.59 | 5,086.88 | 5,281.90 | 84.51 | Zone 4 |
| H17CSELEM | 0 | 5,087.23 | 5,282.29 | 84.52 | Zone 4 |
| J-23 | 3.99 | 5,102.29 | 5,297.69 | 84.66 | Zone 1 |
| J-438 | 5.6 | 5,086.25 | 5,281.90 | 84.78 | Zone 4 |
| J-478 | 3.45 | 5,086.54 | 5,282.27 | 84.81 | Zone 4 |
| J-474 | 3.45 | 5,086.26 | 5,282.26 | 84.93 | Zone 4 |
| J-201 | 6.03 | 5,085.59 | 5,281.61 | 84.94 | Zone 4 |
| J-460 | 5.6 | 5,086.01 | 5,282.29 | 85.05 | Zone 4 |
| J-1274 | 0 | 5,085.67 | 5,282.16 | 85.14 | Zone 4 |
| J-407 | 2.15 | 5,085.64 | 5,282.29 | 85.21 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.29 | 85.3 | Zone 4 |
| J-202 | 5.17 | 5,084.62 | 5,281.59 | 85.35 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,281.87 | 85.36 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,282.29 | 85.41 | Zone 4 |
| J22-902 | 4.95 | 5,085.12 | 5,282.29 | 85.43 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,276.47 | 85.46 | Zone 1 |
| J-249 | 4.74 | 5,120.99 | 5,318.29 | 85.49 | Zone 3 |
| J-475 | 3.88 | 5,084.82 | 5,282.28 | 85.56 | Zone 4 |
| J-408 | 5.17 | 5,084.71 | 5,282.29 | 85.61 | Zone 4 |
| J-280 | 3.45 | 5,084.28 | 5,282.12 | 85.73 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,282.29 | 85.82 | Zone 4 |
| J-285 | 5.17 | 5,083.77 | 5,281.87 | 85.84 | Zone 4 |
| PH22-FH19 | 0 | 5,084.13 | 5,282.29 | 85.86 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,318.28 | 86.01 | Zone 3 |
| J-476 | 3.45 | 5,083.43 | 5,282.29 | 86.16 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.29 | 86.17 | Zone 4 |
| J-409 | 2.59 | 5,083.24 | 5,282.29 | 86.25 | Zone 4 |
| J-323 | 7.96 | 5,083.06 | 5,282.15 | 86.27 | Zone 4 |
| J-282 | 4.74 | 5,082.97 | 5,282.12 | 86.29 | Zone 4 |
| J-208 | 4.31 | 5,082.50 | 5,281.79 | 86.35 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,281.85 | 86.36 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-150 | 5.99 | 5,066.84 | 5,266.32 | 86.44 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,272.75 | 86.5 | Zone 1 |
| J-471 | 6.46 | 5,082.54 | 5,282.20 | 86.51 | Zone 4 |
| J-273 | 3.02 | 5,082.46 | 5,282.19 | 86.54 | Zone 4 |
| J-461 | 6.46 | 5,082.44 | 5,282.29 | 86.59 | Zone 4 |
| J-588 | 5.99 | 5,077.31 | 5,277.16 | 86.6 | Zone 1 |
| J-439 | 0 | 5,082.00 | 5,281.85 | 86.6 | Zone 4 |
| J-473 | 5.17 | 5,082.14 | 5,282.19 | 86.68 | Zone 4 |
| J-477 | 3.45 | 5,082.15 | 5,282.29 | 86.72 | Zone 4 |
| J-385 | 5.31 | 5,076.49 | 5,276.76 | 86.78 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,277.07 | 86.87 | Zone 1 |
| J-215 | 9.26 | 5,081.17 | 5,281.71 | 86.89 | Zone 4 |
| J-459 | 3.88 | 5,081.68 | 5,282.29 | 86.92 | Zone 4 |
| J-410 | 3.02 | 5,081.37 | 5,282.30 | 87.06 | Zone 4 |
| J-424 | 2.88 | 5,081.15 | 5,282.29 | 87.16 | Zone 4 |
| J-586 | 9.89 | 5,080.67 | 5,281.85 | 87.17 | Zone 4 |
| J-151 | 3.99 | 5,065.12 | 5,266.32 | 87.18 | Zone 1 |
| J-405 | 3.45 | 5,081.06 | 5,282.29 | 87.19 | Zone 4 |
| J-271 | 4.74 | 5,080.96 | 5,282.19 | 87.19 | Zone 4 |
| J-320 | 4.95 | 5,080.78 | 5,282.19 | 87.27 | Zone 4 |
| J-214 | 4.31 | 5,080.16 | 5,281.65 | 87.31 | Zone 4 |
| J-462 | 7.76 | 5,080.60 | 5,282.29 | 87.39 | Zone 4 |
| J-272 | 3.02 | 5,080.44 | 5,282.19 | 87.42 | Zone 4 |
| J-417 | 5.17 | 5,080.47 | 5,282.30 | 87.45 | Zone 4 |
| J-321 | 2.59 | 5,080.22 | 5,282.19 | 87.51 | Zone 4 |
| J-270 | 4.74 | 5,080.13 | 5,282.19 | 87.55 | Zone 4 |
| J-472 | 4.74 | 5,079.93 | 5,282.19 | 87.64 | Zone 4 |
| J-411 | 3.02 | 5,079.96 | 5,282.30 | 87.67 | Zone 4 |
| J-404 | 3.45 | 5,079.68 | 5,282.30 | 87.79 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,282.30 | 87.87 | Zone 4 |
| J-239 | 4.31 | 5,078.79 | 5,281.60 | 87.87 | Zone 4 |
| J-458 | 4.31 | 5,079.24 | 5,282.29 | 87.98 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,282.19 | 88.07 | Zone 4 |
| J-277 | 5.17 | 5,078.88 | 5,282.19 | 88.09 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,281.94 | 88.1 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.30 | 88.12 | Zone 4 |
| J-418 | 4.74 | 5,078.88 | 5,282.30 | 88.14 | Zone 4 |
| J-412 | 3.02 | 5,078.68 | 5,282.31 | 88.23 | Zone 4 |
| J-403 | 3.02 | 5,078.53 | 5,282.30 | 88.3 | Zone 4 |
| J-212 | 3.88 | 5,077.48 | 5,281.53 | 88.41 | Zone 4 |
| J-279 | 3.88 | 5,078.05 | 5,282.19 | 88.45 | Zone 4 |
| J-587 | 4.95 | 5,078.13 | 5,282.30 | 88.47 | Zone 4 |
| J-269 | 4.31 | 5,077.78 | 5,282.19 | 88.57 | Zone 4 |
| J-264 | 4.31 | 5,077.35 | 5,281.85 | 88.61 | Zone 4 |
| J-426 | 4.74 | 5,077.65 | 5,282.29 | 88.67 | Zone 4 |
| J-413 | 3.02 | 5,077.49 | 5,282.32 | 88.75 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-425 | 1.72 | 5,077.39 | 5,282.30 | 88.79 | Zone 4 |
| J-231 | 4.31 | 5,076.71 | 5,281.79 | 88.86 | Zone 4 |
| J-402 | 3.45 | 5,077.13 | 5,282.31 | 88.9 | Zone 4 |
| J-230 | 4.31 | 5,076.30 | 5,281.71 | 89 | Zone 4 |
| J-276 | 6.03 | 5,076.67 | 5,282.19 | 89.05 | Zone 4 |
| J-226 | 4.31 | 5,075.95 | 5,281.59 | 89.1 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.31 | 89.19 | Zone 4 |
| J-6 | 5.32 | 5,094.60 | 5,300.45 | 89.19 | Zone 1 |
| J-414 | 0 | 5,076.16 | 5,282.34 | 89.34 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,282.32 | 89.4 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.19 | 89.45 | Zone 4 |
| J-436 | 5.6 | 5,075.48 | 5,281.94 | 89.46 | Zone 4 |
| J-401 | 3.88 | 5,075.73 | 5,282.32 | 89.51 | Zone 4 |
| J-295 | 5.6 | 5,075.72 | 5,282.31 | 89.52 | Zone 4 |
| J-228 | 4.31 | 5,075.04 | 5,281.64 | 89.52 | Zone 4 |
| J-278 | 5.17 | 5,075.57 | 5,282.19 | 89.53 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,317.90 | 89.54 | Zone 3 |
| J-415 | 0 | 5,075.53 | 5,282.30 | 89.59 | Zone 4 |
| J-296 | 4.74 | 5,075.50 | 5,282.31 | 89.61 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,281.32 | 89.65 | Zone 4 |
| J-315 | 6.03 | 5,075.27 | 5,282.32 | 89.72 | Zone 4 |
| J-254 | 3.02 | 5,074.06 | 5,281.36 | 89.82 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,282.19 | 89.83 | Zone 4 |
| J-152 | 6.66 | 5,058.73 | 5,266.32 | 89.95 | Zone 1 |
| J-164 | 9.32 | 5,059.45 | 5,267.17 | 90.01 | Zone 1 |
| J-314 | 0 | 5,074.59 | 5,282.33 | 90.01 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,281.86 | 90.04 | Zone 4 |
| J-400 | 3.45 | 5,074.49 | 5,282.34 | 90.06 | Zone 4 |
| J-294 | 3.88 | 5,074.33 | 5,282.30 | 90.11 | Zone 4 |
| J-303 | 2.15 | 5,074.07 | 5,282.23 | 90.2 | Zone 4 |
| J-316 | 10.12 | 5,074.16 | 5,282.32 | 90.2 | Zone 4 |
| J-1242 | 0 | 5,060.56 | 5,268.96 | 90.3 | Zone 1 |
| J-312 | 6.03 | 5,073.95 | 5,282.34 | 90.3 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,281.78 | 90.38 | Zone 4 |
| J-158 | 13.31 | 5,060.32 | 5,269.03 | 90.44 | Zone 1 |
| J-233 | 4.95 | 5,072.79 | 5,281.79 | 90.56 | Zone 4 |
| J-137 | 4.74 | 5,108.67 | 5,317.69 | 90.57 | Zone 3 |
| J-257 | 0 | 5,072.91 | 5,281.94 | 90.57 | Zone 4 |
| J-163 | 8.65 | 5,058.71 | 5,267.76 | 90.58 | Zone 1 |
| J-308 | 6.9 | 5,073.29 | 5,282.37 | 90.59 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.19 | 90.6 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,281.71 | 90.63 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,282.34 | 90.64 | Zone 4 |
| J-260 | 2.59 | 5,072.80 | 5,282.07 | 90.68 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,281.59 | 90.68 | Zone 4 |
| J-266 | 3.88 | 5,072.93 | 5,282.23 | 90.69 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-313 | 5.17 | 5,072.76 | 5,282.34 | 90.81 | Zone 4 |
| J-153 | 5.99 | 5,056.40 | 5,266.32 | 90.96 | Zone 1 |
| J-227 | 0 | 5,071.72 | 5,281.64 | 90.96 | Zone 4 |
| J-310 | 6.03 | 5,072.34 | 5,282.37 | 91.01 | Zone 4 |
| J-309 | 4.31 | 5,072.32 | 5,282.37 | 91.01 | Zone 4 |
| J-259 | 2.59 | 5,072.01 | 5,282.19 | 91.07 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,281.53 | 91.15 | Zone 4 |
| J-1230 | 2.66 | 5,058.21 | 5,268.85 | 91.27 | Zone 1 |
| J-300 | 3.45 | 5,071.64 | 5,282.37 | 91.31 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.07 | 91.36 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,282.19 | 91.38 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,282.37 | 91.4 | Zone 4 |
| J-165 | 13.98 | 5,057.28 | 5,268.34 | 91.45 | Zone 1 |
| J-263 | 9.55 | 5,070.85 | 5,281.94 | 91.46 | Zone 4 |
| J-307 | 6.03 | 5,070.23 | 5,282.39 | 91.93 | Zone 4 |
| J-261 | 2.15 | 5,069.91 | 5,282.07 | 91.93 | Zone 4 |
| J-319 | 4.95 | 5,070.24 | 5,282.43 | 91.94 | Zone 4 |
| J-289 | 5.32 | 5,087.80 | 5,300.18 | 92.02 | Zone 1 |
| J-302 | 4.31 | 5,069.92 | 5,282.41 | 92.07 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,282.42 | 92.14 | Zone 4 |
| J-154 | 9.3 | 5,053.62 | 5,266.33 | 92.17 | Zone 1 |
| J-1322 | 5.32 | 5,055.28 | 5,268.14 | 92.23 | Zone 1 |
| J-219 | 3.88 | 5,068.69 | 5,281.57 | 92.24 | Zone 4 |
| J-1231 | 5.32 | 5,055.87 | 5,268.75 | 92.24 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,268.13 | 92.37 | Zone 1 |
| J-251 | 8.62 | 5,069.14 | 5,282.38 | 92.4 | Zone 4 |
| J-252 | 4.95 | 5,069.06 | 5,282.53 | 92.5 | Zone 4 |
| J-223 | 4.31 | 5,067.34 | 5,281.68 | 92.87 | Zone 4 |
| J-238 | 4.31 | 5,067.17 | 5,281.67 | 92.94 | Zone 4 |
| J-155 | 5.32 | 5,051.81 | 5,266.32 | 92.95 | Zone 1 |
| J-250 | 4.74 | 5,067.75 | 5,282.28 | 92.96 | Zone 4 |
| J-344 | 0 | 5,050.64 | 5,265.26 | 93 | Zone 1 |
| J-247 | 10.77 | 5,067.68 | 5,282.46 | 93.06 | Zone 4 |
| J-36 | 0 | 5,051.03 | 5,266.04 | 93.17 | Zone 1 |
| J-136 | 12.5 | 5,100.47 | 5,315.54 | 93.19 | Zone 3 |
| J-220 | 4.31 | 5,066.08 | 5,281.60 | 93.38 | Zone 4 |
| J-221 | 4.31 | 5,066.06 | 5,281.63 | 93.41 | Zone 4 |
| J-135 | 14.65 | 5,097.88 | 5,315.64 | 94.35 | Zone 3 |
| J-611 | 4.66 | 5,049.06 | 5,266.96 | 94.42 | Zone 1 |
| J-1233 | 6.66 | 5,049.11 | 5,268.33 | 94.99 | Zone 1 |
| J-1232 | 5.32 | 5,048.93 | 5,268.53 | 95.15 | Zone 1 |
| J-612 | 7.09 | 5,047.26 | 5,266.96 | 95.2 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,285.63 | 96.01 | Zone 4 |
| J-1236 | 2.66 | 5,046.50 | 5,268.53 | 96.2 | Zone 1 |
| J-305 | 5.32 | 5,077.07 | 5,299.24 | 96.27 | Zone 1 |
| J-304 | 5.32 | 5,072.38 | 5,299.24 | 98.3 | Zone 1 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 On)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-49 | 9.98 | 5,042.76 | 5,270.34 | 98.61 | Zone 1 |
| J-48 | 9.98 | 5,042.96 | 5,270.65 | 98.66 | Zone 1 |
| J-47 | 7.99 | 5,043.03 | 5,271.15 | 98.84 | Zone 1 |
| J-35 | 7.32 | 5,040.53 | 5,272.47 | 100.5 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,274.42 | 101.08 | Zone 1 |
| J-1252IRR | 8.4 | 5,040.67 | 5,274.36 | 101.26 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,274.42 | 101.45 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,274.42 | 101.52 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,274.42 | 101.68 | Zone 1 |
| J-13 | 5.31 | 5,039.32 | 5,274.42 | 101.87 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,282.28 | 105.93 | Zone 1 |
| J-10 | 5.32 | 5,052.43 | 5,297.13 | 106.03 | Zone 1 |
| J-8 | 5.32 | 5,054.92 | 5,300.24 | 106.3 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,290.36 | 106.42 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.26 | 106.43 | Zone 4 |
| J-9 | 5.32 | 5,049.50 | 5,298.22 | 107.77 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,291.01 | 107.9 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,291.80 | 108.66 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,292.05 | 108.79 | Zone 4 |
| J-11 | 0 | 5,034.44 | 5,291.13 | 111.22 | Zone 1 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.8 | Zone 4 |
| J-243 | 0 | 5,266 | 5,324 | 24.98 | Zone 3 |
| J-742 | 0 | 5,189 | 5,283 | 40.46 | Zone 4 |
| J-760 | 0 | 5,189 | 5,283 | 40.51 | Zone 4 |
| J-241 | 0 | 5,189 | 5,283 | 40.56 | Zone 4 |
| H-5-PH18 | 0 | 5,189 | 5,283 | 40.72 | Zone 4 |
| J-743 | 4.74 | 5,188 | 5,283 | 40.9 | Zone 4 |
| H-9-PH19 | 0 | 5,188 | 5,283 | 41.15 | Zone 4 |
| J-759 | 0 | 5,187 | 5,283 | 41.33 | Zone 4 |
| J-747 | 3.88 | 5,186 | 5,283 | 41.9 | Zone 4 |
| J-127 | 7.97 | 5,087 | 5,184 | 42.11 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,283 | 42.3 | Zone 4 |
| J-749 | 0 | 5,185 | 5,283 | 42.47 | Zone 4 |
| H-7-PH19 | 0 | 5,184 | 5,283 | 42.73 | Zone 4 |
| J-746 | 0 | 5,184 | 5,283 | 42.88 | Zone 4 |
| J-33 | 0 | 5,085 | 5,184 | 42.92 | Zone 2 |
| J-1329 | 7.84 | 5,083 | 5,183 | 43.03 | Zone 2 |
| J-751 | 3.45 | 5,183 | 5,283 | 43.19 | Zone 4 |
| J-1308 | 3.99 | 5,082 | 5,182 | 43.44 | Zone 2 |
| J-1304 | 3.99 | 5,082 | 5,182 | 43.45 | Zone 2 |
| J-79 | 21.26 | 5,083 | 5,184 | 43.9 | Zone 2 |
| J-87 | 6.38 | 5,083 | 5,184 | 44.06 | Zone 2 |
| J-77 | 6.91 | 5,082 | 5,184 | 44.28 | Zone 2 |
| J-128 | 9.03 | 5,082 | 5,184 | 44.54 | Zone 2 |
| J-78 | 0 | 5,081 | 5,184 | 44.77 | Zone 2 |
| J-129 | 0 | 5,081 | 5,184 | 44.79 | Zone 2 |
| J-75 | 4.25 | 5,081 | 5,184 | 45.03 | Zone 2 |
| J-480 | 0 | 5,179 | 5,283 | 45.04 | Zone 4 |
| J-126 | 8.5 | 5,080 | 5,184 | 45.18 | Zone 2 |
| J-65 | 5.85 | 5,080 | 5,184 | 45.4 | Zone 2 |
| J-1309 | 3.99 | 5,078 | 5,182 | 45.49 | Zone 2 |
| J-1328 | 7.84 | 5,077 | 5,183 | 45.56 | Zone 2 |
| J-1338 | 7.84 | 5,078 | 5,183 | 45.57 | Zone 2 |
| J-80 | 0 | 5,079 | 5,184 | 45.59 | Zone 2 |
| J-88 | 7.44 | 5,079 | 5,184 | 45.69 | Zone 2 |
| J-397 | 5.17 | 5,177 | 5,283 | 45.77 | Zone 4 |
| J-125 | 0 | 5,078 | 5,184 | 45.9 | Zone 2 |
| J-64 | 5.85 | 5,078 | 5,184 | 45.91 | Zone 2 |
| J-396 | 6.03 | 5,177 | 5,283 | 45.98 | Zone 4 |
| H-6-PH19 | 0 | 5,176 | 5,283 | 46.12 | Zone 4 |
| J-1325 | 7.31 | 5,076 | 5,182 | 46.24 | Zone 2 |
| J-83 | 6.38 | 5,077 | 5,184 | 46.33 | Zone 2 |
| J-130 | 7.97 | 5,077 | 5,184 | 46.35 | Zone 2 |
| J-1310 | 3.99 | 5,076 | 5,182 | 46.36 | Zone 2 |
| J-1307 | 3.99 | 5,075 | 5,182 | 46.47 | Zone 2 |
| J-1306 | 3.99 | 5,075 | 5,182 | 46.47 | Zone 2 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-1305 | 3.99 | 5,075 | 5,182 | 46.48 | Zone 2 |
| J-1311 | 3.99 | 5,075 | 5,182 | 46.48 | Zone 2 |
| J-1312 | 3.99 | 5,075 | 5,182 | 46.48 | Zone 2 |
| J-753 | 4.31 | 5,175 | 5,283 | 46.5 | Zone 4 |
| J-1315 | 3.99 | 5,074 | 5,183 | 46.92 | Zone 2 |
| J-82 | 0 | 5,076 | 5,184 | 46.97 | Zone 2 |
| J-240 | 0 | 5,076 | 5,184 | 47.03 | Zone 2 |
| J-1326 | 7.31 | 5,074 | 5,182 | 47.11 | Zone 2 |
| J-1336 | 7.84 | 5,074 | 5,183 | 47.23 | Zone 2 |
| J-133 | 10.63 | 5,075 | 5,184 | 47.3 | Zone 2 |
| PH19IRR | 0 | 5,174 | 5,283 | 47.31 | Zone 4 |
| J-398 | 4.95 | 5,173 | 5,283 | 47.36 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,283 | 47.38 | Zone 4 |
| J-76 | 2.66 | 5,075 | 5,184 | 47.58 | Zone 2 |
| J-752 | 4.31 | 5,173 | 5,283 | 47.64 | Zone 4 |
| J-1314 | 7.84 | 5,073 | 5,183 | 47.66 | Zone 2 |
| J-1315-2 | 0 | 5,073 | 5,183 | 47.66 | Zone 2 |
| J-1314-1 | 7.84 | 5,073 | 5,183 | 47.67 | Zone 2 |
| J-84 | 7.44 | 5,074 | 5,184 | 47.67 | Zone 2 |
| J-1324 | 7.31 | 5,072 | 5,182 | 47.74 | Zone 2 |
| J-89 | 0 | 5,074 | 5,184 | 47.82 | Zone 2 |
| J-1315-1 | 7.84 | 5,072 | 5,183 | 47.88 | Zone 2 |
| J-1339 | 7.84 | 5,072 | 5,183 | 47.95 | Zone 2 |
| J-132 | 0 | 5,074 | 5,184 | 48.02 | Zone 2 |
| J-1327 | 7.31 | 5,071 | 5,183 | 48.28 | Zone 2 |
| J-1299 | 7.84 | 5,071 | 5,183 | 48.29 | Zone 2 |
| J-66 | 7.44 | 5,073 | 5,185 | 48.36 | Zone 2 |
| SELEMSC | 5.31 | 5,073 | 5,184 | 48.37 | Zone 2 |
| J-131 | 10.63 | 5,073 | 5,184 | 48.39 | Zone 2 |
| J-81 | 10.63 | 5,073 | 5,184 | 48.4 | Zone 2 |
| J-90 | 6.38 | 5,072 | 5,184 | 48.49 | Zone 2 |
| J-134 | 0 | 5,072 | 5,184 | 48.56 | Zone 2 |
| J-98 | 0 | 5,072 | 5,184 | 48.73 | Zone 2 |
| J-93 | 0 | 5,072 | 5,184 | 48.8 | Zone 2 |
| J-124 | 0 | 5,072 | 5,184 | 48.86 | Zone 2 |
| J-85 | 6.91 | 5,072 | 5,184 | 48.87 | Zone 2 |
| J-1302 | 3.99 | 5,070 | 5,183 | 48.9 | Zone 2 |
| J-91 | 0 | 5,071 | 5,184 | 48.92 | Zone 2 |
| J-1303 | 3.99 | 5,070 | 5,183 | 48.97 | Zone 2 |
| J-1301 | 3.99 | 5,070 | 5,183 | 49.01 | Zone 2 |
| J-234 | 3.02 | 5,211 | 5,324 | 49.05 | Zone 3 |
| J-1316 | 0 | 5,069 | 5,183 | 49.18 | Zone 2 |
| J-44 | 10.1 | 5,071 | 5,184 | 49.25 | Zone 2 |
| J-355 | 0 | 5,071 | 5,184 | 49.26 | Zone 2 |
| J-92 | 7.97 | 5,070 | 5,184 | 49.44 | Zone 2 |
| J-99 | 0 | 5,070 | 5,184 | 49.53 | Zone 2 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-120 | 10.63 | 5,069 | 5,184 | 49.78 | Zone 2 |
| J-1298 | 0 | 5,068 | 5,183 | 49.84 | Zone 2 |
| J-45 | 8.5 | 5,069 | 5,184 | 49.92 | Zone 2 |
| J-40 | 10.1 | 5,069 | 5,184 | 49.97 | Zone 2 |
| J-115 | 6.91 | 5,068 | 5,184 | 50.28 | Zone 2 |
| J-95 | 10.1 | 5,068 | 5,184 | 50.47 | Zone 2 |
| J-86 | 0 | 5,068 | 5,184 | 50.58 | Zone 2 |
| J-106 | 9.03 | 5,067 | 5,184 | 50.69 | Zone 2 |
| J-121 | 0 | 5,067 | 5,184 | 50.79 | Zone 2 |
| J-1300 | 3.99 | 5,066 | 5,183 | 50.81 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,283 | 50.88 | Zone 4 |
| J-109 | 5.31 | 5,067 | 5,184 | 50.91 | Zone 2 |
| J-96 | 8.5 | 5,067 | 5,184 | 50.98 | Zone 2 |
| J-1342 | 7.84 | 5,065 | 5,183 | 51 | Zone 2 |
| J-1343 | 0 | 5,065 | 5,183 | 51 | Zone 2 |
| J-481 | 0 | 5,165 | 5,283 | 51.1 | Zone 4 |
| J-105 | 0 | 5,066 | 5,184 | 51.11 | Zone 2 |
| J-755 | 4.31 | 5,165 | 5,283 | 51.12 | Zone 4 |
| J-1335 | 7.84 | 5,065 | 5,183 | 51.13 | Zone 2 |
| J-1341 | 0 | 5,065 | 5,183 | 51.15 | Zone 2 |
| J-108 | 7.44 | 5,066 | 5,184 | 51.23 | Zone 2 |
| J-62 | 5.31 | 5,066 | 5,184 | 51.23 | Zone 2 |
| J-119 | 5.31 | 5,066 | 5,184 | 51.27 | Zone 2 |
| J-1340 | 7.84 | 5,065 | 5,183 | 51.28 | Zone 2 |
| J-67 | 8.5 | 5,066 | 5,185 | 51.29 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,184 | 51.4 | Zone 2 |
| J-118 | 5.85 | 5,066 | 5,184 | 51.41 | Zone 2 |
| J-104 | 6.91 | 5,065 | 5,184 | 51.57 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,283 | 51.65 | Zone 4 |
| WELL2 | 0 | 5,065 | 5,184 | 51.65 | Zone 2 |
| J-114 | 8.5 | 5,065 | 5,184 | 51.65 | Zone 2 |
| J-103 | 5.85 | 5,065 | 5,184 | 51.65 | Zone 2 |
| J-1 | 0 | 5,206 | 5,325 | 51.75 | Zone 1 |
| J-70 | 3.72 | 5,065 | 5,185 | 51.78 | Zone 2 |
| J-123 | 8.5 | 5,065 | 5,184 | 51.78 | Zone 2 |
| J-110 | 13.28 | 5,065 | 5,184 | 51.82 | Zone 2 |
| J-235 | 0 | 5,204 | 5,324 | 51.94 | Zone 3 |
| J-744 | 0 | 5,163 | 5,283 | 52 | Zone 4 |
| J-97 | 0 | 5,064 | 5,184 | 52 | Zone 2 |
| J-39 | 8.5 | 5,064 | 5,184 | 52.2 | Zone 2 |
| J-756 | 4.31 | 5,162 | 5,283 | 52.22 | Zone 4 |
| J-117 | 0 | 5,064 | 5,184 | 52.26 | Zone 2 |
| J-122 | 7.44 | 5,063 | 5,184 | 52.37 | Zone 2 |
| J-38 | 9.57 | 5,063 | 5,184 | 52.48 | Zone 2 |
| J-116 | 7.44 | 5,063 | 5,184 | 52.53 | Zone 2 |
| J-237 | 3.45 | 5,202 | 5,324 | 52.66 | Zone 3 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-111 | 9.57 | 5,063 | 5,184 | 52.71 | Zone 2 |
| J-275 | 7.44 | 5,062 | 5,184 | 52.91 | Zone 2 |
| J-395 | 4.31 | 5,159 | 5,283 | 53.45 | Zone 4 |
| J-2 | 0 | 5,202 | 5,325 | 53.47 | Zone 1 |
| J-73 | 0 | 5,060 | 5,185 | 53.88 | Zone 2 |
| J-185 | 0 | 5,199 | 5,324 | 54.02 | Zone 3 |
| J-100 | 6.91 | 5,060 | 5,184 | 54.12 | Zone 2 |
| J-392 | 6.03 | 5,158 | 5,283 | 54.18 | Zone 4 |
| J-394 | 6.03 | 5,158 | 5,283 | 54.18 | Zone 4 |
| J-101 | 0 | 5,059 | 5,184 | 54.2 | Zone 2 |
| J-61 | 9.57 | 5,059 | 5,184 | 54.49 | Zone 2 |
| J-74 | 9.03 | 5,058 | 5,185 | 55.06 | Zone 2 |
| J-72 | 11.69 | 5,057 | 5,185 | 55.27 | Zone 2 |
| J-112 | 11.16 | 5,057 | 5,184 | 55.3 | Zone 2 |
| J-17 | 0 | 5,057 | 5,185 | 55.36 | Zone 2 |
| J-60 | 8.5 | 5,057 | 5,184 | 55.4 | Zone 2 |
| J-102 | 10.63 | 5,056 | 5,185 | 55.55 | Zone 2 |
| J-274 | 5.31 | 5,055 | 5,184 | 55.79 | Zone 2 |
| J-71 | 0 | 5,056 | 5,185 | 55.83 | Zone 2 |
| J-399 | 0 | 5,154 | 5,283 | 55.85 | Zone 4 |
| J-59 | 5.31 | 5,057 | 5,185 | 55.85 | Zone 2 |
| J-43 | 5.31 | 5,055 | 5,185 | 56.17 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,283 | 56.21 | Zone 4 |
| J-113 | 2.13 | 5,054 | 5,184 | 56.47 | Zone 2 |
| J-157 | 0 | 5,054 | 5,185 | 56.5 | Zone 2 |
| J-758 | 4.31 | 5,152 | 5,283 | 56.56 | Zone 4 |
| J-57 | 7.44 | 5,053 | 5,185 | 57.12 | Zone 2 |
| PH19IRR | 0 | 5,151 | 5,283 | 57.24 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,283 | 57.25 | Zone 4 |
| WELL7 | 0 | 5,200 | 5,332 | 57.36 | Zone 1 |
| J-37 | 0 | 5,052 | 5,184 | 57.43 | Zone 2 |
| J-757 | 4.31 | 5,150 | 5,283 | 57.57 | Zone 4 |
| J-69 | 0 | 5,051 | 5,185 | 57.79 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 58.05 | Zone 2 |
| J-68 | 7.44 | 5,050 | 5,185 | 58.18 | Zone 2 |
| J-58 | 0 | 5,051 | 5,185 | 58.22 | Zone 2 |
| J-16 | 0 | 5,050 | 5,185 | 58.31 | Zone 2 |
| J-53 | 9.57 | 5,049 | 5,184 | 58.4 | Zone 2 |
| J-1246 | 0 | 5,049 | 5,184 | 58.5 | Zone 2 |
| J-192 | 3.1 | 5,189 | 5,326 | 58.96 | Zone 1 |
| J-393 | 5.17 | 5,147 | 5,283 | 58.97 | Zone 4 |
| J-391 | 4.31 | 5,146 | 5,283 | 59.16 | Zone 4 |
| J-63 | 11.07 | 5,047 | 5,185 | 59.94 | Zone 2 |
| J-50 | 6.38 | 5,046 | 5,185 | 60.04 | Zone 2 |
| J-140 | 11.21 | 5,185 | 5,324 | 60.11 | Zone 3 |
| J-55 | 6.38 | 5,047 | 5,186 | 60.13 | Zone 2 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| FH-925 | 0 | 5,144 | 5,283 | 60.25 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,330 | 60.4 | Zone 1 |
| J-805 | 0 | 5,045 | 5,185 | 60.47 | Zone 4 |
| J-23-1188 | 1.29 | 5,143 | 5,283 | 60.58 | Zone 4 |
| J-51 | 4.78 | 5,045 | 5,185 | 60.6 | Zone 2 |
| H-21-PH19 | 0 | 5,045 | 5,185 | 60.64 | Zone 4 |
| J-255 | 0 | 5,045 | 5,185 | 60.73 | Zone 2 |
| J-482 | 0 | 5,142 | 5,283 | 60.85 | Zone 4 |
| J22-901 | 0 | 5,142 | 5,283 | 60.89 | Zone 4 |
| J-23-1191 | 0 | 5,142 | 5,283 | 60.93 | Zone 4 |
| J-23-1193 | 3.02 | 5,142 | 5,283 | 60.97 | Zone 4 |
| J-23-1190 | 0.86 | 5,142 | 5,283 | 60.97 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,283 | 60.99 | Zone 4 |
| J-23-1189 | 1.29 | 5,142 | 5,283 | 60.99 | Zone 4 |
| J-23-1187 | 0.86 | 5,142 | 5,283 | 61.05 | Zone 4 |
| J-52 | 3.72 | 5,043 | 5,184 | 61.18 | Zone 2 |
| J-830 | 0 | 5,141 | 5,283 | 61.2 | Zone 4 |
| J-56 | 9.57 | 5,044 | 5,186 | 61.24 | Zone 2 |
| J-15 | 6.19 | 5,045 | 5,186 | 61.32 | Zone 2 |
| J-194 | 7.97 | 5,043 | 5,185 | 61.44 | Zone 2 |
| ALLEYCHU | 10.62 | 5,043 | 5,185 | 61.48 | Zone 2 |
| J-142 | 5.6 | 5,182 | 5,324 | 61.52 | Zone 3 |
| J-42 | 3.1 | 5,043 | 5,185 | 61.53 | Zone 2 |
| J-679 | 7.33 | 5,140 | 5,283 | 61.66 | Zone 4 |
| J-1184 | 0 | 5,140 | 5,283 | 61.81 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,283 | 61.87 | Zone 4 |
| J-54 | 0 | 5,045 | 5,188 | 61.9 | Zone 2 |
| J-23-1225 | 0 | 5,140 | 5,283 | 61.91 | Zone 4 |
| J-685 | 0 | 5,139 | 5,283 | 62.08 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,283 | 62.15 | Zone 4 |
| J-390 | 0 | 5,139 | 5,283 | 62.18 | Zone 4 |
| J-836 | 3.88 | 5,139 | 5,283 | 62.2 | Zone 4 |
| J-819 | 0 | 5,139 | 5,283 | 62.23 | Zone 4 |
| J-797 | 9.57 | 5,047 | 5,190 | 62.24 | Zone 2 |
| J-829 | 0 | 5,139 | 5,283 | 62.4 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,283 | 62.42 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,283 | 62.53 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,283 | 62.58 | Zone 4 |
| J-841 | 0 | 5,138 | 5,283 | 62.67 | Zone 4 |
| NDYKEWE | 0 | 5,046 | 5,190 | 62.68 | Zone 2 |
| J-3 | 0 | 5,179 | 5,325 | 62.89 | Zone 1 |
| 9RENOTR | 3.1 | 5,042 | 5,188 | 63.06 | Zone 2 |
| J-820 | 0 | 5,137 | 5,283 | 63.29 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,283 | 63.34 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,283 | 63.35 | Zone 4 |
| J-815 | 4.95 | 5,136 | 5,283 | 63.61 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| PH22-FH1 | 0 | 5,136 | 5,283 | 63.67 | Zone 4 |
| J-678 | 0 | 5,135 | 5,283 | 64.01 | Zone 4 |
| J-193 | 5.32 | 5,175 | 5,324 | 64.2 | Zone 1 |
| J-352 | 5.6 | 5,134 | 5,283 | 64.29 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,283 | 64.65 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,283 | 64.83 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,283 | 64.98 | Zone 4 |
| J-810 | 0 | 5,133 | 5,283 | 65.08 | Zone 4 |
| J-816 | 5.17 | 5,132 | 5,283 | 65.25 | Zone 4 |
| J-187 | 0 | 5,173 | 5,324 | 65.51 | Zone 3 |
| J-730 | 0 | 5,131 | 5,283 | 65.61 | Zone 4 |
| J-806 | 0 | 5,131 | 5,283 | 65.69 | Zone 4 |
| J-732 | 0 | 5,131 | 5,283 | 65.75 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,283 | 65.76 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,283 | 65.85 | Zone 4 |
| J-677 | 8.62 | 5,130 | 5,283 | 66.02 | Zone 4 |
| J-1262 | 3.1 | 5,172 | 5,324 | 66.07 | Zone 1 |
| J-688 | 4.95 | 5,130 | 5,283 | 66.19 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,283 | 66.2 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,283 | 66.25 | Zone 4 |
| J-23-1195 | 1.29 | 5,130 | 5,283 | 66.26 | Zone 4 |
| J-23-1196 | 1.72 | 5,130 | 5,283 | 66.27 | Zone 4 |
| J-811 | 5.6 | 5,130 | 5,283 | 66.28 | Zone 4 |
| J-23-1194 | 2.15 | 5,130 | 5,283 | 66.37 | Zone 4 |
| J-687 | 0 | 5,129 | 5,283 | 66.52 | Zone 4 |
| J-807 | 4.74 | 5,129 | 5,283 | 66.59 | Zone 4 |
| J-145 | 5.17 | 5,170 | 5,324 | 66.69 | Zone 3 |
| J-23-1197 | 1.29 | 5,129 | 5,283 | 66.71 | Zone 4 |
| J-675 | 0 | 5,129 | 5,283 | 66.74 | Zone 4 |
| J-839 | 0 | 5,128 | 5,283 | 67.16 | Zone 4 |
| J-483 | 0 | 5,128 | 5,283 | 67.17 | Zone 4 |
| H-69-PH19 | 0 | 5,127 | 5,283 | 67.31 | Zone 4 |
| J-676 | 0 | 5,127 | 5,283 | 67.32 | Zone 4 |
| J-141 | 4.74 | 5,169 | 5,324 | 67.33 | Zone 3 |
| FH-930 | 0 | 5,127 | 5,283 | 67.48 | Zone 4 |
| J-443 | 4.31 | 5,127 | 5,283 | 67.54 | Zone 4 |
| J-576 | 5.17 | 5,126 | 5,283 | 67.74 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,283 | 67.93 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,283 | 67.96 | Zone 4 |
| J-842 | 3.88 | 5,126 | 5,283 | 68.07 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,283 | 68.16 | Zone 4 |
| H-66-PH19 | 0 | 5,125 | 5,283 | 68.25 | Zone 4 |
| J-844 | 2.15 | 5,125 | 5,283 | 68.42 | Zone 4 |
| H-5-PH20 | 0 | 5,125 | 5,283 | 68.56 | Zone 4 |
| J-736 | 6.03 | 5,124 | 5,283 | 68.68 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,283 | 68.95 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-817 | 0 | 5,122 | 5,283 | 69.57 | Zone 4 |
| J-846 | 0 | 5,122 | 5,283 | 69.71 | Zone 4 |
| J-690 | 0 | 5,122 | 5,283 | 69.73 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,283 | 69.82 | Zone 4 |
| J-4 | 8.42 | 5,163 | 5,324 | 69.83 | Zone 1 |
| J-674 | 0 | 5,121 | 5,283 | 69.89 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,283 | 70.06 | Zone 4 |
| J-808 | 0 | 5,121 | 5,283 | 70.14 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,283 | 70.16 | Zone 4 |
| J-843 | 0 | 5,121 | 5,283 | 70.16 | Zone 4 |
| J-812 | 0 | 5,121 | 5,283 | 70.18 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,283 | 70.18 | Zone 4 |
| J-389 | 1.72 | 5,120 | 5,283 | 70.35 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,283 | 70.36 | Zone 4 |
| J-143 | 3.88 | 5,161 | 5,324 | 70.66 | Zone 3 |
| J-23-1201 | 1.72 | 5,119 | 5,283 | 70.85 | Zone 4 |
| J-348 | 4.31 | 5,119 | 5,283 | 70.88 | Zone 4 |
| J-23-1202 | 2.15 | 5,119 | 5,283 | 70.98 | Zone 4 |
| J-813 | 5.17 | 5,118 | 5,283 | 71.36 | Zone 4 |
| J-818 | 4.74 | 5,118 | 5,283 | 71.39 | Zone 4 |
| J-680 | 5.6 | 5,118 | 5,283 | 71.41 | Zone 4 |
| J-184 | 4.95 | 5,118 | 5,283 | 71.41 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,283 | 71.57 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,283 | 71.61 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,283 | 71.64 | Zone 4 |
| J-823 | 0 | 5,117 | 5,283 | 71.66 | Zone 4 |
| J-809 | 4.74 | 5,117 | 5,283 | 71.67 | Zone 4 |
| J-729 | 0 | 5,117 | 5,283 | 71.84 | Zone 4 |
| J-346 | 0 | 5,116 | 5,283 | 72.18 | Zone 4 |
| J-735 | 0 | 5,116 | 5,283 | 72.24 | Zone 4 |
| J-851 | 3.45 | 5,116 | 5,283 | 72.29 | Zone 4 |
| H-61-PH19 | 0 | 5,116 | 5,283 | 72.29 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,283 | 72.32 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,283 | 72.46 | Zone 4 |
| J-770 | 0 | 5,115 | 5,283 | 72.47 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,283 | 72.51 | Zone 4 |
| J-833 | 0 | 5,115 | 5,283 | 72.55 | Zone 4 |
| H-64-PH19 | 0 | 5,115 | 5,283 | 72.57 | Zone 4 |
| J-840 | 4.31 | 5,115 | 5,283 | 72.72 | Zone 4 |
| J-845 | 4.31 | 5,115 | 5,283 | 72.79 | Zone 4 |
| H-70-PH19 | 0 | 5,115 | 5,283 | 72.86 | Zone 4 |
| J22-886 | 1.29 | 5,114 | 5,283 | 73.03 | Zone 4 |
| J-814 | 0 | 5,114 | 5,283 | 73.04 | Zone 4 |
| H-58-PH19 | 0 | 5,114 | 5,283 | 73.12 | Zone 4 |
| J-855 | 3.88 | 5,114 | 5,283 | 73.16 | Zone 4 |
| J-442 | 4.74 | 5,114 | 5,283 | 73.2 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| PH22-FH4 | 0 | 5,114 | 5,283 | 73.21 | Zone 4 |
| J22-884 | 1.29 | 5,114 | 5,283 | 73.26 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,283 | 73.29 | Zone 4 |
| J-832 | 0 | 5,113 | 5,283 | 73.33 | Zone 4 |
| J-689 | 3.88 | 5,113 | 5,283 | 73.33 | Zone 4 |
| J22-1079 | 2.88 | 5,113 | 5,283 | 73.35 | Zone 4 |
| J22-1159 | 1.29 | 5,113 | 5,283 | 73.37 | Zone 4 |
| J-852 | 3.45 | 5,113 | 5,283 | 73.39 | Zone 4 |
| J22-1158 | 1.29 | 5,113 | 5,283 | 73.39 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,283 | 73.41 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,283 | 73.45 | Zone 4 |
| J-856 | 3.88 | 5,113 | 5,283 | 73.46 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,283 | 73.48 | Zone 4 |
| J-650 | 0 | 5,113 | 5,283 | 73.56 | Zone 4 |
| DDLESCHE | 4.95 | 5,112 | 5,283 | 73.92 | Zone 4 |
| J-441 | 4.74 | 5,112 | 5,283 | 73.95 | Zone 4 |
| J-783 | 3.02 | 5,112 | 5,283 | 73.97 | Zone 4 |
| J-570 | 0 | 5,112 | 5,283 | 73.98 | Zone 4 |
| J-434 | 3.45 | 5,112 | 5,283 | 74.04 | Zone 4 |
| H-20-PH17 | 0 | 5,112 | 5,283 | 74.05 | Zone 4 |
| J-139 | 0 | 5,153 | 5,324 | 74.06 | Zone 3 |
| J-854 | 3.88 | 5,112 | 5,283 | 74.1 | Zone 4 |
| H-57-PH19 | 0 | 5,112 | 5,283 | 74.18 | Zone 4 |
| J-734 | 0 | 5,111 | 5,283 | 74.41 | Zone 4 |
| J-433 | 1.72 | 5,111 | 5,283 | 74.45 | Zone 4 |
| J-195 | 0 | 5,111 | 5,283 | 74.5 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,283 | 74.55 | Zone 4 |
| FH-919 | 5.17 | 5,111 | 5,283 | 74.57 | Zone 4 |
| J-681 | 0 | 5,110 | 5,283 | 74.67 | Zone 4 |
| J-652 | 6.66 | 5,148 | 5,320 | 74.75 | Zone 1 |
| H-72-PH19 | 0 | 5,110 | 5,283 | 74.78 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,283 | 74.91 | Zone 4 |
| J22-1082 | 4.95 | 5,110 | 5,283 | 74.99 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,283 | 75.09 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,283 | 75.1 | Zone 4 |
| J-649 | 0 | 5,109 | 5,283 | 75.19 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,283 | 75.21 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,283 | 75.35 | Zone 4 |
| J22-1161 | 1.29 | 5,109 | 5,283 | 75.41 | Zone 4 |
| J-835 | 0 | 5,109 | 5,283 | 75.42 | Zone 4 |
| J-834 | 0 | 5,109 | 5,283 | 75.47 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,283 | 75.47 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,283 | 75.49 | Zone 4 |
| H-62-PH19 | 0 | 5,108 | 5,283 | 75.55 | Zone 4 |
| J-571 | 0 | 5,108 | 5,283 | 75.67 | Zone 4 |
| J22-1163 | 1.29 | 5,108 | 5,283 | 75.69 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-731 | 0 | 5,108 | 5,283 | 75.7 | Zone 4 |
| J-286 | 13.57 | 5,108 | 5,283 | 75.8 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,283 | 75.84 | Zone 4 |
| J-847 | 0 | 5,107 | 5,283 | 76.08 | Zone 4 |
| J-642 | 0 | 5,107 | 5,283 | 76.14 | Zone 4 |
| J22-890 | 0.86 | 5,107 | 5,283 | 76.23 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,283 | 76.32 | Zone 4 |
| J-284 | 6.9 | 5,106 | 5,283 | 76.43 | Zone 4 |
| J-667 | 0 | 5,106 | 5,283 | 76.58 | Zone 4 |
| J-850 | 3.45 | 5,106 | 5,283 | 76.74 | Zone 4 |
| J-765 | 0 | 5,106 | 5,283 | 76.76 | Zone 4 |
| H-63-PH14 | 0 | 5,105 | 5,283 | 76.81 | Zone 4 |
| J-857 | 0 | 5,105 | 5,283 | 76.89 | Zone 4 |
| J-858 | 3.45 | 5,105 | 5,283 | 77.2 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,283 | 77.29 | Zone 4 |
| J-189 | 0 | 5,145 | 5,324 | 77.36 | Zone 1 |
| J22-1070 | 0 | 5,104 | 5,283 | 77.37 | Zone 4 |
| J-144 | 0 | 5,145 | 5,324 | 77.49 | Zone 3 |
| J-23-1206 | 1.29 | 5,104 | 5,283 | 77.55 | Zone 4 |
| J-769 | 0 | 5,104 | 5,283 | 77.6 | Zone 4 |
| J-853 | 0 | 5,103 | 5,283 | 77.74 | Zone 4 |
| H-19-PH17 | 0 | 5,103 | 5,283 | 77.78 | Zone 4 |
| J-764 | 4.95 | 5,103 | 5,283 | 77.79 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,283 | 77.82 | Zone 4 |
| J-203 | 4.31 | 5,103 | 5,283 | 77.85 | Zone 4 |
| J-23-1205 | 1.29 | 5,103 | 5,283 | 77.88 | Zone 4 |
| J-733 | 6.03 | 5,103 | 5,283 | 77.9 | Zone 4 |
| J-651 | 0 | 5,103 | 5,283 | 77.96 | Zone 4 |
| J-283 | 4.74 | 5,103 | 5,283 | 77.99 | Zone 4 |
| J-782 | 3.02 | 5,103 | 5,283 | 78.03 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,283 | 78.06 | Zone 4 |
| J22-1165 | 1.72 | 5,102 | 5,283 | 78.16 | Zone 4 |
| J-799 | 0 | 5,102 | 5,283 | 78.18 | Zone 4 |
| J22-1164 | 1.29 | 5,102 | 5,283 | 78.2 | Zone 4 |
| J22-1084 | 0 | 5,102 | 5,283 | 78.25 | Zone 4 |
| J-666 | 5.6 | 5,102 | 5,283 | 78.26 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,283 | 78.31 | Zone 4 |
| J-23-1203 | 2.15 | 5,102 | 5,283 | 78.39 | Zone 4 |
| J22-892 | 0.86 | 5,102 | 5,283 | 78.46 | Zone 4 |
| J-190 | 0 | 5,143 | 5,324 | 78.48 | Zone 1 |
| J-1071 | 0 | 5,101 | 5,283 | 78.54 | Zone 4 |
| J-768 | 0 | 5,101 | 5,283 | 78.7 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,283 | 78.73 | Zone 4 |
| J-683 | 5.6 | 5,101 | 5,283 | 78.86 | Zone 4 |
| J22-1085 | 0 | 5,101 | 5,283 | 78.9 | Zone 4 |
| J-432 | 1.72 | 5,101 | 5,283 | 78.91 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-1166 | 0 | 5,100 | 5,283 | 79 | Zone 4 |
| PH22-FH1 | 0 | 5,100 | 5,283 | 79.04 | Zone 4 |
| H-18-PH1 | 0 | 5,100 | 5,283 | 79.11 | Zone 4 |
| J-204 | 4.31 | 5,100 | 5,283 | 79.25 | Zone 4 |
| H-16-PH1 | 0 | 5,100 | 5,283 | 79.31 | Zone 4 |
| J-780 | 5.17 | 5,099 | 5,283 | 79.4 | Zone 4 |
| J-763 | 0 | 5,099 | 5,283 | 79.4 | Zone 4 |
| J-196 | 0 | 5,099 | 5,283 | 79.45 | Zone 4 |
| J22-1168 | 1.72 | 5,099 | 5,283 | 79.49 | Zone 4 |
| H-17-PH1 | 0 | 5,099 | 5,283 | 79.5 | Zone 4 |
| PH22-FH1 | 0 | 5,099 | 5,283 | 79.54 | Zone 4 |
| J22-1170 | 1.72 | 5,099 | 5,283 | 79.67 | Zone 4 |
| PH22-FH1 | 0 | 5,098.86 | 5,282.74 | 79.67 | Zone 4 |
| J-781 | 4.31 | 5,098.79 | 5,282.73 | 79.7 | Zone 4 |
| J-23-1204 | 2.15 | 5,098.75 | 5,282.74 | 79.72 | Zone 4 |
| LDG3-CCO | 2.88 | 5,098.71 | 5,282.76 | 79.75 | Zone 4 |
| J-281 | 3.45 | 5,098.63 | 5,282.73 | 79.77 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,282.74 | 79.77 | Zone 4 |
| J22-1086 | 0 | 5,098.57 | 5,282.76 | 79.81 | Zone 4 |
| J22-1171 | 1.72 | 5,098.51 | 5,282.74 | 79.82 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,282.73 | 79.82 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,282.73 | 79.88 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,282.73 | 79.9 | Zone 4 |
| PH22-FH1 | 0 | 5,098.28 | 5,282.74 | 79.92 | Zone 4 |
| J-704 | 4.95 | 5,098 | 5,283 | 80.05 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,282.73 | 80.08 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,282.75 | 80.11 | Zone 4 |
| J22-1169 | 2.15 | 5,097.42 | 5,282.73 | 80.3 | Zone 4 |
| H-15-PH1 | 0 | 5,097.37 | 5,282.73 | 80.32 | Zone 4 |
| J-448 | 7.32 | 5,134 | 5,320 | 80.33 | Zone 1 |
| PH22-FH1 | 0 | 5,097.31 | 5,282.73 | 80.34 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,282.76 | 80.38 | Zone 4 |
| PH22-FH1 | 0 | 5,097.23 | 5,282.74 | 80.38 | Zone 4 |
| J22-1172 | 3.88 | 5,097.21 | 5,282.74 | 80.39 | Zone 4 |
| J-484 | 4.74 | 5,097.17 | 5,282.77 | 80.42 | Zone 4 |
| J-705 | 0 | 5,097.12 | 5,282.76 | 80.44 | Zone 4 |
| J-767 | 4.95 | 5,097.07 | 5,282.73 | 80.45 | Zone 4 |
| J-778 | 6.46 | 5,096.86 | 5,282.73 | 80.54 | Zone 4 |
| J-671 | 4.95 | 5,096.69 | 5,282.74 | 80.62 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,282.76 | 80.63 | Zone 4 |
| J22-898 | 0 | 5,096.50 | 5,282.74 | 80.7 | Zone 4 |
| J-714 | 0 | 5,096.31 | 5,282.74 | 80.78 | Zone 4 |
| J-205 | 4.31 | 5,096.27 | 5,282.70 | 80.78 | Zone 4 |
| H-13-PH1 | 0 | 5,096.07 | 5,282.73 | 80.88 | Zone 4 |
| J-485 | 10.12 | 5,095.99 | 5,282.77 | 80.93 | Zone 4 |
| J-23-1207 | 2.15 | 5,095.92 | 5,282.77 | 80.96 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-11-PH1 | 0 | 5,095.76 | 5,282.74 | 81.02 | Zone 4 |
| J-325 | 7.53 | 5,095.74 | 5,282.73 | 81.02 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,282.73 | 81.03 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,282.74 | 81.03 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,282.75 | 81.11 | Zone 4 |
| J-776 | 4.31 | 5,095.41 | 5,282.73 | 81.17 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,282.73 | 81.18 | Zone 4 |
| H-14-PH1 | 0 | 5,095.35 | 5,282.73 | 81.19 | Zone 4 |
| J22-874 | 0.86 | 5,095.38 | 5,282.78 | 81.2 | Zone 4 |
| J-444 | 0 | 5,136.58 | 5,324.01 | 81.21 | Zone 3 |
| J-670 | 0 | 5,095.24 | 5,282.75 | 81.25 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,282.76 | 81.25 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,282.78 | 81.25 | Zone 4 |
| H22-FH2 | 0 | 5,095.18 | 5,282.78 | 81.29 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,282.74 | 81.34 | Zone 4 |
| J-1260 | 0 | 5,094.97 | 5,282.73 | 81.36 | Zone 4 |
| J22-1087 | 7.83 | 5,094.99 | 5,282.78 | 81.37 | Zone 4 |
| J-431 | 2.15 | 5,094.71 | 5,282.71 | 81.46 | Zone 4 |
| J-766 | 0 | 5,095 | 5,283 | 81.46 | Zone 4 |
| J-206 | 4.31 | 5,094.63 | 5,282.70 | 81.49 | Zone 4 |
| J-771 | 8.19 | 5,094.49 | 5,282.74 | 81.57 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,282.71 | 81.57 | Zone 4 |
| J-1272 | 2.59 | 5,094.45 | 5,282.73 | 81.58 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,282.73 | 81.59 | Zone 4 |
| J-23-1228 | 3.45 | 5,094.40 | 5,282.76 | 81.62 | Zone 4 |
| J-660 | 3.45 | 5,094.39 | 5,282.75 | 81.62 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,282.76 | 81.66 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,282.74 | 81.69 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,282.71 | 81.72 | Zone 4 |
| J-248 | 6.03 | 5,135.17 | 5,324.00 | 81.82 | Zone 3 |
| J-456 | 0 | 5,093.93 | 5,282.77 | 81.83 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,282.74 | 81.93 | Zone 4 |
| H-10-PH1 | 0 | 5,094 | 5,283 | 81.95 | Zone 4 |
| J-657 | 4.31 | 5,093.38 | 5,282.76 | 82.06 | Zone 4 |
| J-775 | 4.31 | 5,093.32 | 5,282.74 | 82.07 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,324.01 | 82.08 | Zone 3 |
| FH-917 | 0 | 5,093.28 | 5,282.76 | 82.1 | Zone 4 |
| J-23-1212 | 1.72 | 5,093.24 | 5,282.83 | 82.15 | Zone 4 |
| J-662 | 4.31 | 5,092.99 | 5,282.77 | 82.23 | Zone 4 |
| J22-1088 | 2.88 | 5,092.98 | 5,282.83 | 82.26 | Zone 4 |
| J-306 | 5.32 | 5,134 | 5,324 | 82.29 | Zone 1 |
| J-773 | 0 | 5,092.81 | 5,282.74 | 82.3 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,282.83 | 82.3 | Zone 4 |
| J22-880 | 1.29 | 5,093 | 5,283 | 82.32 | Zone 4 |
| H22-FH1 | 0 | 5,092.73 | 5,282.83 | 82.37 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,282.75 | 82.41 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-207 | 4.31 | 5,092.46 | 5,282.70 | 82.43 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,282.78 | 82.46 | Zone 4 |
| J-5 | 5.32 | 5,133.16 | 5,323.53 | 82.49 | Zone 1 |
| J2-IRR-11 | 0 | 5,092.39 | 5,282.83 | 82.52 | Zone 4 |
| J-658 | 6.46 | 5,092.30 | 5,282.76 | 82.53 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,282.70 | 82.6 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,282.75 | 82.62 | Zone 4 |
| J-VILLAGE | 4.95 | 5,092.08 | 5,282.76 | 82.62 | Zone 4 |
| J-23-1208 | 3.02 | 5,092.02 | 5,282.75 | 82.64 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,282.75 | 82.7 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,282.75 | 82.71 | Zone 4 |
| J-655 | 4.31 | 5,091.87 | 5,282.79 | 82.72 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,283.19 | 82.73 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,282.70 | 82.73 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,282.76 | 82.78 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,282.76 | 82.81 | Zone 4 |
| J-466 | 6.46 | 5,091.59 | 5,282.77 | 82.84 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,282.76 | 82.88 | Zone 4 |
| J-23-1216 | 1.29 | 5,091.71 | 5,283.04 | 82.9 | Zone 4 |
| J-198 | 5.6 | 5,091.35 | 5,282.71 | 82.92 | Zone 4 |
| J-454 | 5.17 | 5,091.37 | 5,282.79 | 82.94 | Zone 4 |
| J-664 | 3.88 | 5,091.23 | 5,282.79 | 83 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,282.76 | 83.01 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,283.04 | 83.03 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,282.76 | 83.06 | Zone 4 |
| J-1266 | 1.29 | 5,091.08 | 5,282.76 | 83.06 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,283.04 | 83.08 | Zone 4 |
| J-23-1215 | 0.86 | 5,091.25 | 5,283.01 | 83.09 | Zone 4 |
| J-1257 | 5.17 | 5,090.93 | 5,282.74 | 83.11 | Zone 4 |
| J-23-1219 | 0.86 | 5,091.11 | 5,283.04 | 83.16 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,282.76 | 83.17 | Zone 4 |
| J-1279-IRI | 4.95 | 5,090.60 | 5,282.74 | 83.26 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,283.13 | 83.28 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,282.77 | 83.32 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,283.06 | 83.33 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,283.10 | 83.36 | Zone 4 |
| J-1259 | 2.59 | 5,090.30 | 5,282.74 | 83.38 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,282.88 | 83.39 | Zone 4 |
| J-1255 | 3.88 | 5,090.25 | 5,282.76 | 83.41 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,282.87 | 83.45 | Zone 4 |
| J-453 | 7.33 | 5,090.15 | 5,282.80 | 83.47 | Zone 4 |
| J-23-1213 | 2.59 | 5,090.32 | 5,282.98 | 83.48 | Zone 4 |
| J-23-1214 | 0.43 | 5,090.30 | 5,282.99 | 83.49 | Zone 4 |
| J22-882 | 1.72 | 5,090.19 | 5,282.89 | 83.5 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,282.79 | 83.52 | Zone 4 |
| JH22-FH1 | 0 | 5,090.10 | 5,282.88 | 83.53 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-661 | 3.88 | 5,089.72 | 5,282.77 | 83.65 | Zone 4 |
| J-199 | 6.03 | 5,089.28 | 5,282.71 | 83.81 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,282.79 | 83.84 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,282.79 | 83.97 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,282.81 | 84.05 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,282.79 | 84.09 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,282.81 | 84.11 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,282.86 | 84.33 | Zone 4 |
| J-1256 | 2.59 | 5,087.68 | 5,282.75 | 84.52 | Zone 4 |
| J-324 | 2.15 | 5,088 | 5,283 | 84.57 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,282.83 | 84.65 | Zone 4 |
| J-200 | 6.03 | 5,087.30 | 5,282.70 | 84.67 | Zone 4 |
| LEMSCH | 9.89 | 5,087.43 | 5,282.87 | 84.68 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,282.87 | 84.73 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,282.87 | 84.75 | Zone 4 |
| 17CSELEN | 0 | 5,087.23 | 5,282.87 | 84.77 | Zone 4 |
| J-440 | 2.59 | 5,086.88 | 5,282.72 | 84.86 | Zone 4 |
| ERTOWNC | 3.1 | 5,124 | 5,321 | 84.99 | Zone 1 |
| J-478 | 3.45 | 5,086.54 | 5,282.86 | 85.06 | Zone 4 |
| J-438 | 5.6 | 5,086.25 | 5,282.72 | 85.13 | Zone 4 |
| J-474 | 3.45 | 5,086.26 | 5,282.85 | 85.18 | Zone 4 |
| J-460 | 5.6 | 5,086.01 | 5,282.88 | 85.3 | Zone 4 |
| J-1274 | 0 | 5,085.67 | 5,282.74 | 85.39 | Zone 4 |
| J-201 | 6.03 | 5,085.59 | 5,282.70 | 85.41 | Zone 4 |
| J-646 | 10.65 | 5,122.90 | 5,320.15 | 85.47 | Zone 1 |
| J-407 | 2.15 | 5,086 | 5,283 | 85.47 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,282.88 | 85.56 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,282.88 | 85.67 | Zone 4 |
| J22-902 | 4.95 | 5,085.12 | 5,282.88 | 85.69 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,282.72 | 85.73 | Zone 4 |
| J-387 | 0 | 5,125.58 | 5,323.54 | 85.78 | Zone 1 |
| J-475 | 3.88 | 5,084.82 | 5,282.87 | 85.82 | Zone 4 |
| J-202 | 5.17 | 5,084.62 | 5,282.70 | 85.83 | Zone 4 |
| J-408 | 5.17 | 5,084.71 | 5,282.89 | 85.87 | Zone 4 |
| J-280 | 3.45 | 5,084.28 | 5,282.72 | 85.99 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,282.88 | 86.07 | Zone 4 |
| PH22-FH1 | 0 | 5,084.13 | 5,282.88 | 86.12 | Zone 4 |
| J-285 | 5.17 | 5,083.77 | 5,282.72 | 86.21 | Zone 4 |
| J-653 | 6.66 | 5,121.04 | 5,320.14 | 86.27 | Zone 1 |
| J-476 | 3.45 | 5,083.43 | 5,282.88 | 86.42 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,282.89 | 86.42 | Zone 4 |
| J-409 | 2.59 | 5,083.24 | 5,282.89 | 86.51 | Zone 4 |
| J-323 | 7.96 | 5,083.06 | 5,282.75 | 86.53 | Zone 4 |
| J-282 | 4.74 | 5,082.97 | 5,282.72 | 86.55 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,282.72 | 86.73 | Zone 4 |
| J-208 | 4.31 | 5,082.50 | 5,282.71 | 86.75 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-471 | 6.46 | 5,082.54 | 5,282.80 | 86.77 | Zone 4 |
| J-273 | 3.02 | 5,082.46 | 5,282.79 | 86.8 | Zone 4 |
| J-461 | 6.46 | 5,082.44 | 5,282.88 | 86.85 | Zone 4 |
| J-473 | 5.17 | 5,082.14 | 5,282.78 | 86.94 | Zone 4 |
| J-645 | 0 | 5,119.46 | 5,320.17 | 86.97 | Zone 1 |
| J-439 | 0 | 5,082.00 | 5,282.72 | 86.97 | Zone 4 |
| J-477 | 3.45 | 5,082.15 | 5,282.88 | 86.98 | Zone 4 |
| J-459 | 3.88 | 5,081.68 | 5,282.88 | 87.18 | Zone 4 |
| J-410 | 3.02 | 5,081.37 | 5,282.90 | 87.32 | Zone 4 |
| J-215 | 9.26 | 5,081.17 | 5,282.71 | 87.32 | Zone 4 |
| J-447 | 5.32 | 5,118.19 | 5,319.84 | 87.38 | Zone 1 |
| J-424 | 2.88 | 5,081.15 | 5,282.88 | 87.41 | Zone 4 |
| J-405 | 3.45 | 5,081.06 | 5,282.89 | 87.45 | Zone 4 |
| J-271 | 4.74 | 5,080.96 | 5,282.81 | 87.46 | Zone 4 |
| J-320 | 4.95 | 5,080.78 | 5,282.78 | 87.53 | Zone 4 |
| J-586 | 9.89 | 5,080.67 | 5,282.72 | 87.55 | Zone 4 |
| J-191 | 8.42 | 5,121.58 | 5,323.65 | 87.56 | Zone 1 |
| J-462 | 7.76 | 5,080.60 | 5,282.89 | 87.65 | Zone 4 |
| J-272 | 3.02 | 5,080.44 | 5,282.79 | 87.68 | Zone 4 |
| J-417 | 5.17 | 5,080.47 | 5,282.89 | 87.71 | Zone 4 |
| J-214 | 4.31 | 5,080.16 | 5,282.71 | 87.76 | Zone 4 |
| J-321 | 2.59 | 5,080.22 | 5,282.78 | 87.77 | Zone 4 |
| J-270 | 4.74 | 5,080.13 | 5,282.80 | 87.81 | Zone 4 |
| J-472 | 4.74 | 5,079.93 | 5,282.79 | 87.9 | Zone 4 |
| J-411 | 3.02 | 5,079.96 | 5,282.90 | 87.93 | Zone 4 |
| J-249 | 4.74 | 5,120.99 | 5,324.01 | 87.97 | Zone 3 |
| J-290 | 0 | 5,120.38 | 5,323.52 | 88.02 | Zone 1 |
| J-404 | 3.45 | 5,079.68 | 5,282.90 | 88.05 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,282.90 | 88.13 | Zone 4 |
| J-458 | 4.31 | 5,079.24 | 5,282.88 | 88.24 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,282.80 | 88.33 | Zone 4 |
| J-277 | 5.17 | 5,078.88 | 5,282.79 | 88.35 | Zone 4 |
| J-239 | 4.31 | 5,078.79 | 5,282.71 | 88.36 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,282.89 | 88.38 | Zone 4 |
| J-418 | 4.74 | 5,078.88 | 5,282.90 | 88.4 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,282.77 | 88.46 | Zone 4 |
| J-412 | 3.02 | 5,078.68 | 5,282.91 | 88.49 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,324.01 | 88.5 | Zone 3 |
| J-403 | 3.02 | 5,078.53 | 5,282.90 | 88.55 | Zone 4 |
| J-279 | 3.88 | 5,078.05 | 5,282.79 | 88.71 | Zone 4 |
| J-587 | 4.95 | 5,078.13 | 5,282.89 | 88.72 | Zone 4 |
| J-644 | 11.31 | 5,115.23 | 5,320.19 | 88.81 | Zone 1 |
| J-269 | 4.31 | 5,077.78 | 5,282.78 | 88.83 | Zone 4 |
| J-212 | 3.88 | 5,077.48 | 5,282.71 | 88.92 | Zone 4 |
| J-426 | 4.74 | 5,077.65 | 5,282.89 | 88.93 | Zone 4 |
| J-264 | 4.31 | 5,077.35 | 5,282.73 | 88.99 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-413 | 3.02 | 5,077.49 | 5,282.92 | 89.02 | Zone 4 |
| J-425 | 1.72 | 5,077.39 | 5,282.89 | 89.04 | Zone 4 |
| J-402 | 3.45 | 5,077.13 | 5,282.91 | 89.16 | Zone 4 |
| J-231 | 4.31 | 5,076.71 | 5,282.73 | 89.27 | Zone 4 |
| J-276 | 6.03 | 5,076.67 | 5,282.81 | 89.32 | Zone 4 |
| J-328 | 0 | 5,113.60 | 5,319.85 | 89.37 | Zone 1 |
| J-230 | 4.31 | 5,076.30 | 5,282.73 | 89.45 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,282.91 | 89.45 | Zone 4 |
| J-226 | 4.31 | 5,075.95 | 5,282.72 | 89.59 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,282.95 | 89.6 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,282.92 | 89.66 | Zone 4 |
| J-268 | 0 | 5,075.75 | 5,282.79 | 89.71 | Zone 4 |
| J-401 | 3.88 | 5,075.73 | 5,282.92 | 89.78 | Zone 4 |
| J-295 | 5.6 | 5,075.72 | 5,282.92 | 89.78 | Zone 4 |
| J-278 | 5.17 | 5,075.57 | 5,282.81 | 89.8 | Zone 4 |
| J-436 | 5.6 | 5,075.48 | 5,282.77 | 89.82 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,282.90 | 89.85 | Zone 4 |
| J-296 | 4.74 | 5,075.50 | 5,282.92 | 89.87 | Zone 4 |
| J-315 | 6.03 | 5,075.27 | 5,282.93 | 89.98 | Zone 4 |
| J-228 | 4.31 | 5,075.04 | 5,282.72 | 89.99 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,282.81 | 90.1 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,323.55 | 90.11 | Zone 1 |
| J-236 | 0 | 5,074.42 | 5,282.71 | 90.25 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,282.93 | 90.27 | Zone 4 |
| J-400 | 3.45 | 5,074.49 | 5,282.95 | 90.33 | Zone 4 |
| J-294 | 3.88 | 5,074.33 | 5,282.92 | 90.38 | Zone 4 |
| J-254 | 3.02 | 5,074.06 | 5,282.71 | 90.41 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,282.74 | 90.42 | Zone 4 |
| J-316 | 10.12 | 5,074.16 | 5,282.93 | 90.46 | Zone 4 |
| J-303 | 2.15 | 5,074.07 | 5,282.88 | 90.48 | Zone 4 |
| J-312 | 6.03 | 5,073.95 | 5,282.95 | 90.56 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,282.73 | 90.79 | Zone 4 |
| J-308 | 6.9 | 5,073.29 | 5,282.98 | 90.86 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,282.85 | 90.88 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,282.95 | 90.9 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,282.77 | 90.93 | Zone 4 |
| J-233 | 4.95 | 5,072.79 | 5,282.73 | 90.97 | Zone 4 |
| J-266 | 3.88 | 5,072.93 | 5,282.88 | 90.97 | Zone 4 |
| J-260 | 2.59 | 5,072.80 | 5,282.81 | 91 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,282.73 | 91.07 | Zone 4 |
| J-313 | 5.17 | 5,072.76 | 5,282.95 | 91.07 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,282.72 | 91.17 | Zone 4 |
| J-310 | 6.03 | 5,072.34 | 5,282.98 | 91.27 | Zone 4 |
| J-309 | 4.31 | 5,072.32 | 5,282.98 | 91.28 | Zone 4 |
| J-259 | 2.59 | 5,072.01 | 5,282.85 | 91.36 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,282.72 | 91.43 | Zone 4 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-343 | 5.99 | 5,108.61 | 5,319.77 | 91.5 | Zone 1 |
| J-159 | 7.32 | 5,108.44 | 5,319.77 | 91.57 | Zone 1 |
| J-300 | 3.45 | 5,072 | 5,283 | 91.57 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,282.72 | 91.66 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,282.98 | 91.66 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,282.85 | 91.67 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,282.81 | 91.68 | Zone 4 |
| J-263 | 9.55 | 5,070.85 | 5,282.77 | 91.82 | Zone 4 |
| J-307 | 6.03 | 5,070.23 | 5,283.00 | 92.19 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,324.03 | 92.2 | Zone 3 |
| J-319 | 4.95 | 5,070.24 | 5,283.05 | 92.21 | Zone 4 |
| J-261 | 2.15 | 5,069.91 | 5,282.81 | 92.25 | Zone 4 |
| J-302 | 4.31 | 5,069.92 | 5,283.03 | 92.34 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,283.04 | 92.41 | Zone 4 |
| J-334 | 0 | 5,106.04 | 5,319.85 | 92.64 | Zone 1 |
| J-251 | 8.62 | 5,069.14 | 5,283.02 | 92.67 | Zone 4 |
| J-219 | 3.88 | 5,068.69 | 5,282.72 | 92.74 | Zone 4 |
| J-252 | 4.95 | 5,069.06 | 5,283.15 | 92.77 | Zone 4 |
| J-250 | 4.74 | 5,067.75 | 5,282.94 | 93.24 | Zone 4 |
| J-137 | 4.74 | 5,108.67 | 5,324.04 | 93.32 | Zone 3 |
| J-223 | 4.31 | 5,067.34 | 5,282.72 | 93.32 | Zone 4 |
| J-247 | 10.77 | 5,067.68 | 5,283.08 | 93.33 | Zone 4 |
| J-238 | 4.31 | 5,067.17 | 5,282.72 | 93.4 | Zone 4 |
| J-333 | 6.66 | 5,104.15 | 5,319.85 | 93.46 | Zone 1 |
| J-596 | 0 | 5,104.61 | 5,320.36 | 93.48 | Zone 1 |
| J-25 | 0 | 5,104.44 | 5,320.41 | 93.58 | Zone 1 |
| J-648 | 3.33 | 5,103.71 | 5,320.14 | 93.78 | Zone 1 |
| J-160 | 5.99 | 5,103.31 | 5,319.77 | 93.79 | Zone 1 |
| J-329 | 5.32 | 5,103.30 | 5,319.85 | 93.83 | Zone 1 |
| J-220 | 4.31 | 5,066.08 | 5,282.72 | 93.87 | Zone 4 |
| J-221 | 4.31 | 5,066.06 | 5,282.72 | 93.88 | Zone 4 |
| J-603 | 6.66 | 5,102.70 | 5,320.13 | 94.21 | Zone 1 |
| J-27 | 0 | 5,101.81 | 5,320.04 | 94.56 | Zone 1 |
| J-647 | 6.66 | 5,100.91 | 5,320.14 | 94.99 | Zone 1 |
| J-446 | 5.32 | 5,099.26 | 5,319.84 | 95.58 | Zone 1 |
| J-23 | 3.99 | 5,102.29 | 5,323.20 | 95.72 | Zone 1 |
| J-595 | 2.66 | 5,099.13 | 5,320.32 | 95.84 | Zone 1 |
| J-332 | 0 | 5,097.85 | 5,319.85 | 96.19 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,286.24 | 96.27 | Zone 4 |
| J-340 | 3.99 | 5,096.75 | 5,319.77 | 96.64 | Zone 1 |
| J-330 | 4.66 | 5,096.35 | 5,319.85 | 96.84 | Zone 1 |
| J-136 | 12.5 | 5,100.47 | 5,324.15 | 96.92 | Zone 3 |
| J-606 | 9.32 | 5,096.31 | 5,320.17 | 97 | Zone 1 |
| J-592 | 8.65 | 5,095.57 | 5,320.22 | 97.34 | Zone 1 |
| J-445 | 0 | 5,095.13 | 5,319.85 | 97.37 | Zone 1 |
| J-135 | 14.65 | 5,097.88 | 5,324.25 | 98.08 | Zone 3 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-166 | 5.32 | 5,093.26 | 5,319.77 | 98.15 | Zone 1 |
| J-6 | 5.32 | 5,094.60 | 5,323.49 | 99.18 | Zone 1 |
| J-336 | 5.32 | 5,090.75 | 5,319.80 | 99.25 | Zone 1 |
| J-327 | 7.32 | 5,089.27 | 5,319.85 | 99.91 | Zone 1 |
| J-590 | 5.99 | 5,088.31 | 5,320.19 | 100.48 | Zone 1 |
| J-341 | 0 | 5,087.54 | 5,319.80 | 100.64 | Zone 1 |
| J-604 | 3.99 | 5,086.47 | 5,320.15 | 101.25 | Zone 1 |
| J-339 | 4.66 | 5,085.67 | 5,319.79 | 101.44 | Zone 1 |
| J-597 | 7.99 | 5,085.96 | 5,320.13 | 101.47 | Zone 1 |
| J-289 | 5.32 | 5,087.80 | 5,323.50 | 102.13 | Zone 1 |
| J-161 | 5.99 | 5,082.45 | 5,319.77 | 102.83 | Zone 1 |
| J-342 | 0 | 5,082.46 | 5,319.79 | 102.83 | Zone 1 |
| J-427 | 6.66 | 5,082.41 | 5,319.85 | 102.88 | Zone 1 |
| J-589 | 7.99 | 5,082.17 | 5,320.20 | 103.14 | Zone 1 |
| J-331 | 5.99 | 5,079.08 | 5,319.85 | 104.33 | Zone 1 |
| J-594 | 0 | 5,079.25 | 5,320.13 | 104.37 | Zone 1 |
| J-337 | 9.98 | 5,077.64 | 5,319.81 | 104.93 | Zone 1 |
| J-588 | 5.99 | 5,077.31 | 5,320.19 | 105.24 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,320.19 | 105.55 | Zone 1 |
| J-385 | 5.31 | 5,076.49 | 5,320.15 | 105.58 | Zone 1 |
| J-162 | 6.66 | 5,074.91 | 5,319.77 | 106.1 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,290.94 | 106.67 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,290.85 | 106.69 | Zone 4 |
| J-305 | 5.32 | 5,077.07 | 5,323.37 | 106.72 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,319.88 | 106.93 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,291.60 | 108.15 | Zone 4 |
| J-304 | 5.32 | 5,072.38 | 5,323.37 | 108.76 | Zone 1 |
| J-828 | 0 | 5,041.01 | 5,292.37 | 108.91 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,292.63 | 109.04 | Zone 4 |
| J-150 | 5.99 | 5,066.84 | 5,319.80 | 109.61 | Zone 1 |
| J-151 | 3.99 | 5,065.12 | 5,319.79 | 110.35 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,319.77 | 112.32 | Zone 1 |
| J-158 | 13.31 | 5,060.32 | 5,319.77 | 112.42 | Zone 1 |
| J-164 | 9.32 | 5,059.45 | 5,319.78 | 112.8 | Zone 1 |
| J-163 | 8.65 | 5,058.71 | 5,319.78 | 113.12 | Zone 1 |
| J-152 | 6.66 | 5,058.73 | 5,319.79 | 113.12 | Zone 1 |
| J-1230 | 2.66 | 5,058.21 | 5,319.77 | 113.34 | Zone 1 |
| J-165 | 13.98 | 5,057.28 | 5,319.77 | 113.74 | Zone 1 |
| J-153 | 5.99 | 5,056.40 | 5,319.80 | 114.13 | Zone 1 |
| J-1231 | 5.32 | 5,055.87 | 5,319.77 | 114.35 | Zone 1 |
| J-1322 | 5.32 | 5,055.28 | 5,319.78 | 114.61 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,319.78 | 114.75 | Zone 1 |
| J-154 | 9.3 | 5,053.62 | 5,319.80 | 115.34 | Zone 1 |
| J-155 | 5.32 | 5,051.81 | 5,319.80 | 116.12 | Zone 1 |
| J-8 | 5.32 | 5,054.92 | 5,323.46 | 116.36 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,319.83 | 116.47 | Zone 1 |

GBWC-CSD Preferred MDD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-344 | 0 | 5,050.64 | 5,319.83 | 116.64 | Zone 1 |
| J-1233 | 6.66 | 5,049.11 | 5,319.77 | 117.28 | Zone 1 |
| J-10 | 5.32 | 5,052.43 | 5,323.13 | 117.3 | Zone 1 |
| J-611 | 4.66 | 5,049.06 | 5,319.89 | 117.35 | Zone 1 |
| J-1232 | 5.32 | 5,048.93 | 5,319.77 | 117.35 | Zone 1 |
| J-612 | 7.09 | 5,047.26 | 5,319.89 | 118.13 | Zone 1 |
| J-1236 | 2.66 | 5,046.50 | 5,319.77 | 118.41 | Zone 1 |
| J-9 | 5.32 | 5,049.50 | 5,323.25 | 118.62 | Zone 1 |
| J-47 | 7.99 | 5,043.03 | 5,320.21 | 120.1 | Zone 1 |
| J-48 | 9.98 | 5,042.96 | 5,320.17 | 120.12 | Zone 1 |
| J-49 | 9.98 | 5,042.76 | 5,320.15 | 120.19 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,320.55 | 121.07 | Zone 1 |
| J-35 | 7.32 | 5,040.53 | 5,320.35 | 121.25 | Zone 1 |
| J-1252IRF | 8.4 | 5,040.67 | 5,320.49 | 121.25 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,320.55 | 121.44 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,320.55 | 121.51 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,320.55 | 121.67 | Zone 1 |
| J-13 | 5.31 | 5,039.32 | 5,320.56 | 121.86 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,321.45 | 122.9 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,322.45 | 124.8 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.74 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.74 | Zone 3 |
| J-742 | 0 | 5,189 | 5,281 | 39.85 | Zone 4 |
| J-760 | 0 | 5,189 | 5,281 | 39.92 | Zone 4 |
| J-241 | 0 | 5,189 | 5,281 | 39.96 | Zone 4 |
| H-5-PH18 | 0 | 5,189 | 5,281 | 40.1 | Zone 4 |
| J-743 | 8.3 | 5,188 | 5,281 | 40.28 | Zone 4 |
| H-9-PH19 | 0 | 5,188 | 5,281 | 40.55 | Zone 4 |
| J-759 | 0 | 5,187 | 5,281 | 40.73 | Zone 4 |
| J-127 | 13.95 | 5,087 | 5,182 | 40.91 | Zone 2 |
| J-1329 | 13.72 | 5,083 | 5,178 | 41.05 | Zone 2 |
| J-747 | 6.79 | 5,186 | 5,281 | 41.29 | Zone 4 |
| J-1308 | 6.97 | 5,082 | 5,178 | 41.32 | Zone 2 |
| J-1304 | 6.97 | 5,082 | 5,178 | 41.33 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,281 | 41.68 | Zone 4 |
| J-33 | 0 | 5,085 | 5,181 | 41.69 | Zone 2 |
| J-749 | 0 | 5,185 | 5,281 | 41.86 | Zone 4 |
| H-7-PH19 | 0 | 5,184 | 5,281 | 42.09 | Zone 4 |
| J-746 | 0 | 5,184 | 5,281 | 42.24 | Zone 4 |
| J-751 | 6.03 | 5,183 | 5,281 | 42.56 | Zone 4 |
| J-79 | 37.2 | 5,083 | 5,182 | 42.64 | Zone 2 |
| J-87 | 11.16 | 5,083 | 5,181 | 42.82 | Zone 2 |
| J-77 | 12.09 | 5,082 | 5,181 | 43.03 | Zone 2 |
| J-128 | 15.81 | 5,082 | 5,181 | 43.32 | Zone 2 |
| J-1309 | 6.97 | 5,078 | 5,178 | 43.36 | Zone 2 |
| J-1328 | 13.72 | 5,077 | 5,178 | 43.46 | Zone 2 |
| J-78 | 0 | 5,081 | 5,181 | 43.53 | Zone 2 |
| J-129 | 0 | 5,081 | 5,181 | 43.56 | Zone 2 |
| J-1338 | 13.72 | 5,078 | 5,178 | 43.6 | Zone 2 |
| J-75 | 7.44 | 5,081 | 5,182 | 43.76 | Zone 2 |
| J-126 | 14.88 | 5,080 | 5,181 | 43.96 | Zone 2 |
| J-1325 | 12.79 | 5,076 | 5,178 | 44.12 | Zone 2 |
| J-65 | 10.23 | 5,080 | 5,181 | 44.17 | Zone 2 |
| J-1310 | 6.97 | 5,076 | 5,178 | 44.23 | Zone 2 |
| J-1307 | 6.97 | 5,075 | 5,178 | 44.35 | Zone 2 |
| J-1306 | 6.97 | 5,075 | 5,178 | 44.35 | Zone 2 |
| J-1305 | 6.97 | 5,075 | 5,178 | 44.35 | Zone 2 |
| J-80 | 0 | 5,079 | 5,181 | 44.36 | Zone 2 |
| J-1311 | 6.97 | 5,075 | 5,178 | 44.36 | Zone 2 |
| J-1312 | 6.97 | 5,075 | 5,178 | 44.36 | Zone 2 |
| J-480 | 0 | 5,179 | 5,281 | 44.4 | Zone 4 |
| J-88 | 13.02 | 5,079 | 5,181 | 44.45 | Zone 2 |
| J-64 | 10.23 | 5,078 | 5,182 | 44.66 | Zone 2 |
| J-125 | 0 | 5,078 | 5,181 | 44.67 | Zone 2 |
| J-1315 | 6.97 | 5,074 | 5,178 | 44.81 | Zone 2 |
| J-1326 | 12.79 | 5,074 | 5,178 | 44.99 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-83 | 11.16 | 5,077 | 5,182 | 45.08 | Zone 2 |
| J-397 | 9.05 | 5,177 | 5,281 | 45.11 | Zone 4 |
| J-130 | 13.95 | 5,077 | 5,181 | 45.12 | Zone 2 |
| J-1336 | 13.72 | 5,074 | 5,178 | 45.13 | Zone 2 |
| J-396 | 10.56 | 5,177 | 5,281 | 45.32 | Zone 4 |
| H-6-PH19 | 0 | 5,176 | 5,281 | 45.48 | Zone 4 |
| J-1314 | 13.72 | 5,073 | 5,178 | 45.56 | Zone 2 |
| J-1315-2 | 0 | 5,073 | 5,178 | 45.56 | Zone 2 |
| J-1314-1 | 13.72 | 5,073 | 5,178 | 45.57 | Zone 2 |
| J-1324 | 12.79 | 5,072 | 5,178 | 45.63 | Zone 2 |
| J-82 | 0 | 5,076 | 5,182 | 45.72 | Zone 2 |
| J-240 | 0 | 5,076 | 5,181 | 45.8 | Zone 2 |
| J-753 | 7.54 | 5,175 | 5,281 | 45.86 | Zone 4 |
| J-1315-1 | 13.72 | 5,072 | 5,178 | 45.95 | Zone 2 |
| J-133 | 18.6 | 5,075 | 5,181 | 46.07 | Zone 2 |
| J-1339 | 13.72 | 5,072 | 5,179 | 46.09 | Zone 2 |
| J-1327 | 12.79 | 5,071 | 5,178 | 46.18 | Zone 2 |
| J-76 | 4.65 | 5,075 | 5,182 | 46.31 | Zone 2 |
| J-84 | 13.02 | 5,074 | 5,182 | 46.42 | Zone 2 |
| J-1299 | 13.72 | 5,071 | 5,179 | 46.51 | Zone 2 |
| J-89 | 0 | 5,074 | 5,181 | 46.58 | Zone 2 |
| PH19IRR | 0 | 5,174 | 5,281 | 46.67 | Zone 4 |
| J-398 | 8.66 | 5,173 | 5,281 | 46.71 | Zone 4 |
| H-5-PH19 | 0 | 5,173 | 5,281 | 46.74 | Zone 4 |
| J-132 | 0 | 5,074 | 5,181 | 46.79 | Zone 2 |
| J-752 | 7.54 | 5,173 | 5,281 | 47 | Zone 4 |
| J-1302 | 6.97 | 5,070 | 5,179 | 47.05 | Zone 2 |
| J-66 | 13.02 | 5,073 | 5,182 | 47.09 | Zone 2 |
| J-1303 | 6.97 | 5,070 | 5,179 | 47.11 | Zone 2 |
| SELEMSC | 9.29 | 5,073 | 5,181 | 47.13 | Zone 2 |
| J-1301 | 6.97 | 5,070 | 5,179 | 47.16 | Zone 2 |
| J-131 | 18.6 | 5,073 | 5,181 | 47.16 | Zone 2 |
| J-81 | 18.6 | 5,073 | 5,181 | 47.16 | Zone 2 |
| J-90 | 11.16 | 5,072 | 5,181 | 47.25 | Zone 2 |
| J-1316 | 0 | 5,069 | 5,179 | 47.32 | Zone 2 |
| J-134 | 0 | 5,072 | 5,181 | 47.33 | Zone 2 |
| J-98 | 0 | 5,072 | 5,181 | 47.5 | Zone 2 |
| J-93 | 0 | 5,072 | 5,181 | 47.57 | Zone 2 |
| J-85 | 12.09 | 5,072 | 5,182 | 47.62 | Zone 2 |
| J-124 | 0 | 5,072 | 5,181 | 47.63 | Zone 2 |
| J-91 | 0 | 5,071 | 5,181 | 47.69 | Zone 2 |
| J-44 | 17.67 | 5,071 | 5,182 | 48.02 | Zone 2 |
| J-355 | 0 | 5,071 | 5,181 | 48.03 | Zone 2 |
| J-1298 | 0 | 5,068 | 5,179 | 48.18 | Zone 2 |
| J-92 | 13.95 | 5,070 | 5,181 | 48.2 | Zone 2 |
| J-99 | 0 | 5,070 | 5,181 | 48.3 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-120 | 18.6 | 5,069 | 5,181 | 48.55 | Zone 2 |
| J-1 | 0 | 5,206 | 5,318 | 48.6 | Zone 1 |
| J-45 | 14.88 | 5,069 | 5,181 | 48.69 | Zone 2 |
| J-40 | 17.67 | 5,069 | 5,182 | 48.7 | Zone 2 |
| J-234 | 5.28 | 5,211 | 5,323 | 48.72 | Zone 3 |
| J-1300 | 6.97 | 5,066 | 5,179 | 48.98 | Zone 2 |
| J-115 | 12.09 | 5,068 | 5,181 | 49.06 | Zone 2 |
| J-1342 | 13.72 | 5,065 | 5,179 | 49.17 | Zone 2 |
| J-1343 | 0 | 5,065 | 5,179 | 49.17 | Zone 2 |
| J-95 | 17.67 | 5,068 | 5,181 | 49.23 | Zone 2 |
| J-1335 | 13.72 | 5,065 | 5,179 | 49.31 | Zone 2 |
| J-86 | 0 | 5,068 | 5,182 | 49.32 | Zone 2 |
| J-1341 | 0 | 5,065 | 5,179 | 49.34 | Zone 2 |
| J-106 | 15.81 | 5,067 | 5,181 | 49.46 | Zone 2 |
| J-1340 | 13.72 | 5,065 | 5,179 | 49.48 | Zone 2 |
| J-121 | 0 | 5,067 | 5,181 | 49.57 | Zone 2 |
| J-109 | 9.3 | 5,067 | 5,181 | 49.68 | Zone 2 |
| J-96 | 14.88 | 5,067 | 5,181 | 49.75 | Zone 2 |
| J-2 | 0 | 5,202 | 5,317 | 49.84 | Zone 1 |
| J-105 | 0 | 5,066 | 5,181 | 49.88 | Zone 2 |
| J-62 | 9.3 | 5,066 | 5,182 | 49.97 | Zone 2 |
| J-108 | 13.02 | 5,066 | 5,181 | 50 | Zone 2 |
| J-67 | 14.88 | 5,066 | 5,182 | 50.01 | Zone 2 |
| J-119 | 9.3 | 5,066 | 5,181 | 50.05 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,181 | 50.18 | Zone 2 |
| J-118 | 10.23 | 5,066 | 5,181 | 50.19 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,281 | 50.2 | Zone 4 |
| J-104 | 12.09 | 5,065 | 5,181 | 50.34 | Zone 2 |
| J-481 | 0 | 5,165 | 5,281 | 50.42 | Zone 4 |
| J-103 | 10.23 | 5,065 | 5,181 | 50.42 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,181 | 50.42 | Zone 2 |
| J-114 | 14.88 | 5,065 | 5,181 | 50.43 | Zone 2 |
| J-755 | 7.54 | 5,165 | 5,281 | 50.44 | Zone 4 |
| J-70 | 6.51 | 5,065 | 5,182 | 50.49 | Zone 2 |
| J-123 | 14.88 | 5,065 | 5,181 | 50.56 | Zone 2 |
| J-110 | 23.25 | 5,065 | 5,181 | 50.61 | Zone 2 |
| J-97 | 0 | 5,064 | 5,181 | 50.77 | Zone 2 |
| J-39 | 14.88 | 5,064 | 5,182 | 50.94 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,281 | 50.98 | Zone 4 |
| J-117 | 0 | 5,064 | 5,181 | 51.04 | Zone 2 |
| J-122 | 13.02 | 5,063 | 5,181 | 51.15 | Zone 2 |
| J-38 | 16.74 | 5,063 | 5,182 | 51.22 | Zone 2 |
| J-116 | 13.02 | 5,063 | 5,181 | 51.31 | Zone 2 |
| J-744 | 0 | 5,163 | 5,281 | 51.34 | Zone 4 |
| J-111 | 16.74 | 5,063 | 5,181 | 51.5 | Zone 2 |
| J-756 | 7.54 | 5,162 | 5,281 | 51.55 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-235 | 0 | 5,204 | 5,323 | 51.63 | Zone 3 |
| J-275 | 13.02 | 5,062 | 5,181 | 51.7 | Zone 2 |
| J-237 | 6.03 | 5,202 | 5,323 | 52.34 | Zone 3 |
| J-73 | 0 | 5,060 | 5,182 | 52.59 | Zone 2 |
| J-395 | 7.54 | 5,159 | 5,281 | 52.74 | Zone 4 |
| J-100 | 12.09 | 5,060 | 5,182 | 52.91 | Zone 2 |
| J-101 | 0 | 5,059 | 5,182 | 53 | Zone 2 |
| J-61 | 16.74 | 5,059 | 5,182 | 53.22 | Zone 2 |
| WELL7 | 0 | 5,200 | 5,323 | 53.4 | Zone 1 |
| J-394 | 10.56 | 5,158 | 5,281 | 53.45 | Zone 4 |
| J-392 | 10.56 | 5,158 | 5,281 | 53.47 | Zone 4 |
| J-185 | 0 | 5,199 | 5,323 | 53.68 | Zone 3 |
| J-74 | 15.81 | 5,058 | 5,182 | 53.78 | Zone 2 |
| J-72 | 20.46 | 5,057 | 5,182 | 53.98 | Zone 2 |
| J-17 | 0 | 5,057 | 5,182 | 54.08 | Zone 2 |
| J-112 | 19.53 | 5,057 | 5,181 | 54.11 | Zone 2 |
| J-60 | 14.88 | 5,057 | 5,182 | 54.15 | Zone 2 |
| J-102 | 18.6 | 5,056 | 5,182 | 54.36 | Zone 2 |
| J-71 | 0 | 5,056 | 5,182 | 54.55 | Zone 2 |
| J-274 | 9.3 | 5,055 | 5,181 | 54.59 | Zone 2 |
| J-59 | 9.3 | 5,057 | 5,183 | 54.63 | Zone 2 |
| J-192 | 5.42 | 5,189 | 5,316 | 54.84 | Zone 1 |
| J-43 | 9.3 | 5,055 | 5,182 | 55.01 | Zone 2 |
| J-399 | 0 | 5,154 | 5,281 | 55.12 | Zone 4 |
| J-157 | 0 | 5,054 | 5,182 | 55.22 | Zone 2 |
| J-113 | 3.72 | 5,054 | 5,181 | 55.28 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,281 | 55.44 | Zone 4 |
| J-758 | 7.54 | 5,152 | 5,281 | 55.78 | Zone 4 |
| J-57 | 13.02 | 5,053 | 5,182 | 55.92 | Zone 2 |
| WELL6 | 0 | 5,191 | 5,321 | 56.39 | Zone 1 |
| PH19IRR | 0 | 5,151 | 5,281 | 56.41 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,281 | 56.42 | Zone 4 |
| J-37 | 0 | 5,052 | 5,182 | 56.48 | Zone 2 |
| J-69 | 0 | 5,051 | 5,182 | 56.5 | Zone 2 |
| J-193 | 9.32 | 5,175 | 5,306 | 56.54 | Zone 1 |
| J-757 | 7.54 | 5,150 | 5,281 | 56.75 | Zone 4 |
| J-68 | 13.02 | 5,050 | 5,182 | 56.9 | Zone 2 |
| J-3 | 0 | 5,179 | 5,311 | 57 | Zone 1 |
| J-16 | 0 | 5,050 | 5,182 | 57.03 | Zone 2 |
| J-58 | 0 | 5,051 | 5,182 | 57.05 | Zone 2 |
| J-53 | 16.74 | 5,049 | 5,182 | 57.48 | Zone 2 |
| J-1246 | 0 | 5,049 | 5,182 | 57.65 | Zone 2 |
| J-1245 | 0 | 5,050 | 5,184 | 57.92 | Zone 2 |
| J-393 | 9.05 | 5,147 | 5,281 | 58.22 | Zone 4 |
| J-391 | 7.54 | 5,146 | 5,281 | 58.41 | Zone 4 |
| J-63 | 19.37 | 5,047 | 5,182 | 58.67 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-50 | 11.16 | 5,046 | 5,182 | 58.88 | Zone 2 |
| J-55 | 11.16 | 5,047 | 5,183 | 58.91 | Zone 2 |
| J-805 | 0 | 5,045 | 5,182 | 59.31 | Zone 4 |
| FH-925 | 0 | 5,144 | 5,281 | 59.4 | Zone 4 |
| H-21-PH1 | 0 | 5,045 | 5,182 | 59.49 | Zone 4 |
| J-23-1188 | 2.26 | 5,143 | 5,280 | 59.52 | Zone 4 |
| J-255 | 0 | 5,045 | 5,183 | 59.55 | Zone 2 |
| J-51 | 8.37 | 5,045 | 5,182 | 59.56 | Zone 2 |
| J-140 | 19.61 | 5,185 | 5,323 | 59.76 | Zone 3 |
| J-1262 | 5.42 | 5,172 | 5,310 | 59.8 | Zone 1 |
| J22-901 | 0 | 5,142 | 5,280 | 59.83 | Zone 4 |
| J-23-1197 | 0 | 5,142 | 5,280 | 59.87 | Zone 4 |
| J-23-1193 | 5.28 | 5,142 | 5,280 | 59.91 | Zone 4 |
| J-23-1190 | 1.51 | 5,142 | 5,280 | 59.91 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,280 | 59.93 | Zone 4 |
| J-23-1189 | 2.26 | 5,142 | 5,280 | 59.93 | Zone 4 |
| J-23-1187 | 1.51 | 5,142 | 5,280 | 59.99 | Zone 4 |
| J-56 | 16.74 | 5,044 | 5,183 | 60.01 | Zone 2 |
| J-652 | 11.65 | 5,148 | 5,286 | 60.06 | Zone 1 |
| J-482 | 0 | 5,142 | 5,281 | 60.08 | Zone 4 |
| J-15 | 10.83 | 5,045 | 5,183 | 60.13 | Zone 2 |
| J-830 | 0 | 5,141 | 5,280 | 60.14 | Zone 4 |
| J-52 | 6.51 | 5,043 | 5,182 | 60.22 | Zone 2 |
| ALLEYCHU | 18.58 | 5,043 | 5,183 | 60.31 | Zone 2 |
| J-194 | 13.95 | 5,043 | 5,182 | 60.31 | Zone 2 |
| J-42 | 5.42 | 5,043 | 5,183 | 60.35 | Zone 2 |
| J-54 | 0 | 5,045 | 5,185 | 60.69 | Zone 2 |
| J-1184 | 0 | 5,140 | 5,280 | 60.75 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,280 | 60.81 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,280 | 60.85 | Zone 4 |
| J-679 | 12.82 | 5,140 | 5,281 | 60.87 | Zone 4 |
| J-797 | 16.74 | 5,047 | 5,187 | 61.06 | Zone 2 |
| H-68-PH1 | 0 | 5,139 | 5,280 | 61.09 | Zone 4 |
| J-142 | 9.8 | 5,182 | 5,323 | 61.13 | Zone 3 |
| J-836 | 6.79 | 5,139 | 5,280 | 61.14 | Zone 4 |
| J-819 | 0 | 5,139 | 5,280 | 61.18 | Zone 4 |
| J-685 | 0 | 5,139 | 5,281 | 61.22 | Zone 4 |
| J-829 | 0 | 5,139 | 5,280 | 61.34 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,280 | 61.36 | Zone 4 |
| J-390 | 0 | 5,139 | 5,281 | 61.43 | Zone 4 |
| H-67-PH1 | 0 | 5,138 | 5,280 | 61.47 | Zone 4 |
| NDYKEW | 0 | 5,046 | 5,188 | 61.5 | Zone 2 |
| J-841 | 0 | 5,138 | 5,280 | 61.62 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,281 | 61.76 | Zone 4 |
| 9RENOTR | 5.42 | 5,042 | 5,185 | 61.85 | Zone 2 |
| J-820 | 0 | 5,137 | 5,280 | 62.23 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-7-PH20 | 0 | 5,137 | 5,280 | 62.28 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,280 | 62.29 | Zone 4 |
| J-815 | 8.66 | 5,136 | 5,280 | 62.55 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,280 | 62.61 | Zone 4 |
| J-4 | 14.73 | 5,163 | 5,309 | 63.12 | Zone 1 |
| J-678 | 0 | 5,135 | 5,281 | 63.16 | Zone 4 |
| J-352 | 9.8 | 5,134 | 5,281 | 63.52 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,281 | 63.79 | Zone 4 |
| H-4-PH20 | 0 | 5,133 | 5,280 | 63.92 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,281 | 63.93 | Zone 4 |
| J-810 | 0 | 5,133 | 5,280 | 64.03 | Zone 4 |
| J-816 | 9.05 | 5,132 | 5,280 | 64.19 | Zone 4 |
| J-730 | 0 | 5,131 | 5,280 | 64.57 | Zone 4 |
| J-806 | 0 | 5,131 | 5,280 | 64.64 | Zone 4 |
| J-448 | 12.81 | 5,134 | 5,284 | 64.66 | Zone 1 |
| H-1-PH20 | 0 | 5,131 | 5,280 | 64.7 | Zone 4 |
| J-732 | 0 | 5,131 | 5,280 | 64.72 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,280 | 64.82 | Zone 4 |
| J-677 | 15.08 | 5,130 | 5,281 | 65.13 | Zone 4 |
| J-187 | 0 | 5,173 | 5,323 | 65.15 | Zone 3 |
| J22-899 | 0 | 5,130 | 5,280 | 65.19 | Zone 4 |
| J-23-1195 | 2.26 | 5,130 | 5,280 | 65.2 | Zone 4 |
| J-23-1196 | 3.02 | 5,130 | 5,280 | 65.21 | Zone 4 |
| J-811 | 9.8 | 5,130 | 5,280 | 65.23 | Zone 4 |
| J-688 | 8.66 | 5,130 | 5,281 | 65.23 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,281 | 65.3 | Zone 4 |
| J-23-1194 | 3.77 | 5,130 | 5,280 | 65.31 | Zone 4 |
| J-807 | 8.3 | 5,129 | 5,280 | 65.54 | Zone 4 |
| J-687 | 0 | 5,129 | 5,281 | 65.57 | Zone 4 |
| J-23-1197 | 2.26 | 5,129 | 5,280 | 65.65 | Zone 4 |
| J-675 | 0 | 5,129 | 5,281 | 65.8 | Zone 4 |
| J-839 | 0 | 5,128 | 5,280 | 66.1 | Zone 4 |
| H-69-PH1 | 0 | 5,127 | 5,280 | 66.25 | Zone 4 |
| J-145 | 9.05 | 5,170 | 5,323 | 66.3 | Zone 3 |
| J-676 | 0 | 5,127 | 5,281 | 66.39 | Zone 4 |
| J-483 | 0 | 5,128 | 5,281 | 66.39 | Zone 4 |
| FH-930 | 0 | 5,127 | 5,281 | 66.52 | Zone 4 |
| J-443 | 7.54 | 5,127 | 5,281 | 66.7 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,280 | 66.87 | Zone 4 |
| J-576 | 9.05 | 5,126 | 5,281 | 66.88 | Zone 4 |
| J-141 | 8.3 | 5,169 | 5,323 | 66.94 | Zone 3 |
| J-842 | 6.79 | 5,126 | 5,280 | 67.01 | Zone 4 |
| FH-927 | 0 | 5,126 | 5,281 | 67.02 | Zone 4 |
| H-8-PH20 | 0 | 5,125 | 5,280 | 67.1 | Zone 4 |
| H-66-PH1 | 0 | 5,125 | 5,280 | 67.2 | Zone 4 |
| J-844 | 3.77 | 5,125 | 5,280 | 67.36 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-5-PH20 | 0 | 5,125 | 5,280 | 67.5 | Zone 4 |
| J-736 | 10.56 | 5,124 | 5,280 | 67.63 | Zone 4 |
| H-2-PH20 | 0 | 5,124 | 5,280 | 67.9 | Zone 4 |
| J-817 | 0 | 5,122 | 5,280 | 68.51 | Zone 4 |
| J-846 | 0 | 5,122 | 5,280 | 68.65 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,280 | 68.76 | Zone 4 |
| J-690 | 0 | 5,122 | 5,281 | 68.77 | Zone 4 |
| J-674 | 0 | 5,121 | 5,281 | 68.95 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,280 | 69 | Zone 4 |
| J-808 | 0 | 5,121 | 5,280 | 69.09 | Zone 4 |
| H-65-PH1 | 0 | 5,121 | 5,280 | 69.1 | Zone 4 |
| J-843 | 0 | 5,121 | 5,280 | 69.1 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,280 | 69.12 | Zone 4 |
| J-812 | 0 | 5,121 | 5,280 | 69.12 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,281 | 69.42 | Zone 4 |
| J-389 | 3.02 | 5,120 | 5,281 | 69.53 | Zone 4 |
| J-23-120 | 3.02 | 5,119 | 5,280 | 69.79 | Zone 4 |
| J-23-1202 | 3.77 | 5,119 | 5,280 | 69.92 | Zone 4 |
| J-348 | 7.54 | 5,119 | 5,281 | 70.1 | Zone 4 |
| J-143 | 6.79 | 5,161 | 5,323 | 70.27 | Zone 3 |
| J-813 | 9.05 | 5,118 | 5,280 | 70.31 | Zone 4 |
| J-818 | 8.3 | 5,118 | 5,280 | 70.33 | Zone 4 |
| J-189 | 0 | 5,145 | 5,308 | 70.37 | Zone 1 |
| J-680 | 9.8 | 5,118 | 5,281 | 70.45 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,280 | 70.51 | Zone 4 |
| J-184 | 8.66 | 5,118 | 5,281 | 70.55 | Zone 4 |
| H-3-PH20 | 0 | 5,117 | 5,280 | 70.55 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,280 | 70.6 | Zone 4 |
| J-823 | 0 | 5,117 | 5,280 | 70.61 | Zone 4 |
| J-809 | 8.3 | 5,117 | 5,280 | 70.62 | Zone 4 |
| J-646 | 18.64 | 5,123 | 5,286 | 70.78 | Zone 1 |
| J-729 | 0 | 5,117 | 5,280 | 70.79 | Zone 4 |
| J-190 | 0 | 5,143 | 5,307 | 71.12 | Zone 1 |
| J-735 | 0 | 5,116 | 5,280 | 71.19 | Zone 4 |
| J-851 | 6.03 | 5,116 | 5,280 | 71.23 | Zone 4 |
| H-61-PH1 | 0 | 5,116 | 5,280 | 71.24 | Zone 4 |
| RTOWNC | 5.42 | 5,124 | 5,289 | 71.25 | Zone 1 |
| J-1183 | 0 | 5,116 | 5,280 | 71.26 | Zone 4 |
| J-346 | 0 | 5,116 | 5,281 | 71.39 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,280 | 71.4 | Zone 4 |
| J-770 | 0 | 5,115 | 5,280 | 71.41 | Zone 4 |
| J-833 | 0 | 5,115 | 5,280 | 71.49 | Zone 4 |
| H-64-PH1 | 0 | 5,115 | 5,280 | 71.51 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,281 | 71.55 | Zone 4 |
| J-653 | 11.65 | 5,121 | 5,286 | 71.55 | Zone 1 |
| J-840 | 7.54 | 5,115 | 5,280 | 71.66 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-447 | 9.32 | 5,118 | 5,284 | 71.71 | Zone 1 |
| J-845 | 7.54 | 5,115 | 5,280 | 71.73 | Zone 4 |
| H-70-PH1 | 0 | 5,115 | 5,280 | 71.8 | Zone 4 |
| J22-886 | 2.26 | 5,114 | 5,280 | 71.98 | Zone 4 |
| J-814 | 0 | 5,114 | 5,280 | 71.98 | Zone 4 |
| H-58-PH1 | 0 | 5,114 | 5,280 | 72.06 | Zone 4 |
| J-855 | 6.79 | 5,114 | 5,280 | 72.1 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,280 | 72.15 | Zone 4 |
| J22-884 | 2.26 | 5,114 | 5,280 | 72.2 | Zone 4 |
| H-60-PH1 | 0 | 5,114 | 5,280 | 72.23 | Zone 4 |
| J-832 | 0 | 5,113 | 5,280 | 72.27 | Zone 4 |
| J22-1079 | 5.05 | 5,113 | 5,280 | 72.29 | Zone 4 |
| J22-1159 | 2.26 | 5,113 | 5,280 | 72.31 | Zone 4 |
| J-645 | 0 | 5,119 | 5,286 | 72.32 | Zone 1 |
| J-852 | 6.03 | 5,113 | 5,280 | 72.33 | Zone 4 |
| J-442 | 8.3 | 5,114 | 5,281 | 72.33 | Zone 4 |
| J22-1158 | 2.26 | 5,113 | 5,280 | 72.33 | Zone 4 |
| PH22-FH3 | 0 | 5,113 | 5,280 | 72.35 | Zone 4 |
| J-689 | 6.79 | 5,113 | 5,280 | 72.37 | Zone 4 |
| H-59-PH1 | 0 | 5,113 | 5,280 | 72.39 | Zone 4 |
| J-856 | 6.79 | 5,113 | 5,280 | 72.4 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,280 | 72.42 | Zone 4 |
| J-650 | 0 | 5,113 | 5,281 | 72.59 | Zone 4 |
| J-783 | 5.28 | 5,112 | 5,280 | 72.92 | Zone 4 |
| DDLESCH | 8.66 | 5,112 | 5,281 | 72.96 | Zone 4 |
| H-20-PH1 | 0 | 5,112 | 5,280 | 73 | Zone 4 |
| J-570 | 0 | 5,112 | 5,281 | 73.02 | Zone 4 |
| J-854 | 6.79 | 5,112 | 5,280 | 73.04 | Zone 4 |
| J-441 | 8.3 | 5,112 | 5,281 | 73.07 | Zone 4 |
| H-57-PH1 | 0 | 5,112 | 5,280 | 73.12 | Zone 4 |
| J-434 | 6.03 | 5,112 | 5,281 | 73.15 | Zone 4 |
| J-734 | 0 | 5,111 | 5,280 | 73.37 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,280 | 73.49 | Zone 4 |
| J-433 | 3.02 | 5,111 | 5,281 | 73.56 | Zone 4 |
| FH-919 | 9.05 | 5,111 | 5,281 | 73.61 | Zone 4 |
| J-195 | 0 | 5,111 | 5,281 | 73.62 | Zone 4 |
| J-139 | 0 | 5,153 | 5,323 | 73.69 | Zone 3 |
| J-328 | 0 | 5,114 | 5,284 | 73.7 | Zone 1 |
| J-681 | 0 | 5,110 | 5,280 | 73.7 | Zone 4 |
| H-72-PH1 | 0 | 5,110 | 5,280 | 73.73 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,280 | 73.85 | Zone 4 |
| J22-1082 | 8.66 | 5,110 | 5,280 | 73.93 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,280 | 74.03 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,280 | 74.04 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,280 | 74.15 | Zone 4 |
| J-644 | 19.8 | 5,115 | 5,286 | 74.21 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-649 | 0 | 5,109 | 5,281 | 74.23 | Zone 4 |
| PH22-FH6 | 0 | 5,109 | 5,280 | 74.3 | Zone 4 |
| J22-1161 | 2.26 | 5,109 | 5,280 | 74.35 | Zone 4 |
| J-835 | 0 | 5,109 | 5,280 | 74.36 | Zone 4 |
| J-834 | 0 | 5,109 | 5,280 | 74.41 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,280 | 74.42 | Zone 4 |
| J-1179 | 0 | 5,109 | 5,280 | 74.43 | Zone 4 |
| J-306 | 9.32 | 5,134 | 5,305 | 74.47 | Zone 1 |
| H-62-PH1 | 0 | 5,108 | 5,280 | 74.49 | Zone 4 |
| J22-1163 | 2.26 | 5,108 | 5,280 | 74.63 | Zone 4 |
| J-731 | 0 | 5,108 | 5,280 | 74.65 | Zone 4 |
| J-571 | 0 | 5,108 | 5,281 | 74.71 | Zone 4 |
| J-5 | 9.32 | 5,133 | 5,306 | 74.72 | Zone 1 |
| PH22-FH7 | 0 | 5,108 | 5,280 | 74.78 | Zone 4 |
| J-286 | 23.74 | 5,108 | 5,281 | 74.91 | Zone 4 |
| J-847 | 0 | 5,107 | 5,280 | 75.02 | Zone 4 |
| J22-890 | 1.51 | 5,107 | 5,280 | 75.17 | Zone 4 |
| J-642 | 0 | 5,107 | 5,281 | 75.17 | Zone 4 |
| J22-1069 | 0 | 5,107 | 5,280 | 75.26 | Zone 4 |
| J-343 | 10.48 | 5,109 | 5,282 | 75.33 | Zone 1 |
| J-159 | 12.81 | 5,108 | 5,282 | 75.4 | Zone 1 |
| J-284 | 12.07 | 5,106 | 5,281 | 75.52 | Zone 4 |
| J-667 | 0 | 5,106 | 5,280 | 75.6 | Zone 4 |
| J-850 | 6.03 | 5,106 | 5,280 | 75.68 | Zone 4 |
| J-765 | 0 | 5,106 | 5,280 | 75.7 | Zone 4 |
| H-63-PH1 | 0 | 5,105 | 5,280 | 75.75 | Zone 4 |
| J-857 | 0 | 5,105 | 5,280 | 75.83 | Zone 4 |
| J-858 | 6.03 | 5,105 | 5,280 | 76.14 | Zone 4 |
| FH-929 | 0 | 5,104 | 5,280 | 76.3 | Zone 4 |
| J22-1070 | 0 | 5,104 | 5,280 | 76.31 | Zone 4 |
| J-23-1206 | 2.26 | 5,104 | 5,280 | 76.5 | Zone 4 |
| J-769 | 0 | 5,104 | 5,280 | 76.54 | Zone 4 |
| J-853 | 0 | 5,103.31 | 5,280.29 | 76.69 | Zone 4 |
| H-19-PH1 | 0 | 5,103.22 | 5,280.28 | 76.72 | Zone 4 |
| J-764 | 8.66 | 5,103.20 | 5,280.28 | 76.73 | Zone 4 |
| J-23-1205 | 2.26 | 5,103.01 | 5,280.30 | 76.82 | Zone 4 |
| FH-920 | 0 | 5,103.13 | 5,280.46 | 76.84 | Zone 4 |
| J-733 | 10.56 | 5,102.95 | 5,280.31 | 76.85 | Zone 4 |
| J-203 | 7.54 | 5,103 | 5,280 | 76.88 | Zone 4 |
| J-782 | 5.28 | 5,103 | 5,280 | 76.97 | Zone 4 |
| J-334 | 0 | 5,106.04 | 5,283.69 | 76.97 | Zone 1 |
| J-651 | 0 | 5,102.83 | 5,280.51 | 76.99 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,280 | 77 | Zone 4 |
| J-283 | 8.3 | 5,102.74 | 5,280.60 | 77.07 | Zone 4 |
| J-144 | 0 | 5,145.19 | 5,323.12 | 77.1 | Zone 3 |
| J22-1165 | 3.02 | 5,102.35 | 5,280.29 | 77.1 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-799 | 0 | 5,102.30 | 5,280.29 | 77.12 | Zone 4 |
| J22-1164 | 2.26 | 5,102.26 | 5,280.29 | 77.14 | Zone 4 |
| J22-1084 | 0 | 5,102.15 | 5,280.29 | 77.19 | Zone 4 |
| PH22-FH8 | 0 | 5,102.01 | 5,280.29 | 77.25 | Zone 4 |
| J-666 | 9.8 | 5,102.13 | 5,280.45 | 77.27 | Zone 4 |
| J-23-1203 | 3.77 | 5,102 | 5,280 | 77.34 | Zone 4 |
| J22-892 | 1.51 | 5,101.66 | 5,280.29 | 77.4 | Zone 4 |
| J-1071 | 0 | 5,101.47 | 5,280.30 | 77.48 | Zone 4 |
| J-160 | 10.48 | 5,103.31 | 5,282.46 | 77.63 | Zone 1 |
| J-768 | 0 | 5,101.09 | 5,280.30 | 77.65 | Zone 4 |
| J23-IRR | 0 | 5,101.05 | 5,280.30 | 77.67 | Zone 4 |
| J-333 | 11.65 | 5,104.15 | 5,283.68 | 77.79 | Zone 1 |
| J22-1085 | 0 | 5,100.66 | 5,280.30 | 77.84 | Zone 4 |
| J-683 | 9.8 | 5,100.73 | 5,280.39 | 77.84 | Zone 4 |
| J22-1166 | 0 | 5,100.41 | 5,280.30 | 77.95 | Zone 4 |
| H22-FH1 | 0 | 5,100 | 5,280 | 77.98 | Zone 4 |
| J-432 | 3.02 | 5,100.59 | 5,280.59 | 77.99 | Zone 4 |
| J-387 | 0 | 5,126 | 5,306 | 77.99 | Zone 1 |
| H-18-PH1 | 0 | 5,100 | 5,280 | 78.05 | Zone 4 |
| J-329 | 9.32 | 5,103.30 | 5,283.69 | 78.16 | Zone 1 |
| H-16-PH1 | 0 | 5,099.69 | 5,280.29 | 78.25 | Zone 4 |
| J-204 | 7.54 | 5,099.81 | 5,280.45 | 78.27 | Zone 4 |
| J-780 | 9.05 | 5,099.49 | 5,280.29 | 78.34 | Zone 4 |
| J-763 | 0 | 5,099.48 | 5,280.29 | 78.35 | Zone 4 |
| J22-1168 | 3.02 | 5,099.28 | 5,280.30 | 78.44 | Zone 4 |
| H-17-PH1 | 0 | 5,099.26 | 5,280.29 | 78.44 | Zone 4 |
| H22-FH1 | 0 | 5,099.17 | 5,280.30 | 78.48 | Zone 4 |
| J-196 | 0 | 5,099 | 5,281 | 78.53 | Zone 4 |
| H22-FH1 | 0 | 5,098.86 | 5,280.30 | 78.62 | Zone 4 |
| J22-1170 | 3.02 | 5,098.86 | 5,280.30 | 78.62 | Zone 4 |
| J-781 | 7.54 | 5,098.79 | 5,280.29 | 78.64 | Zone 4 |
| J-23-1204 | 3.77 | 5,098.75 | 5,280.30 | 78.67 | Zone 4 |
| J22-1147 | 0 | 5,098.63 | 5,280.30 | 78.72 | Zone 4 |
| DG3-CC0 | 5.05 | 5,098.71 | 5,280.46 | 78.75 | Zone 4 |
| J22-1086 | 0 | 5,098.57 | 5,280.32 | 78.75 | Zone 4 |
| J22-1171 | 3.02 | 5,098.51 | 5,280.30 | 78.77 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,280.30 | 78.77 | Zone 4 |
| J-281 | 6.03 | 5,098.63 | 5,280.55 | 78.83 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,280.31 | 78.83 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,280.29 | 78.85 | Zone 4 |
| H22-FH1 | 0 | 5,098.28 | 5,280.30 | 78.87 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,280.30 | 79.02 | Zone 4 |
| J-704 | 8.66 | 5,098.03 | 5,280.46 | 79.05 | Zone 4 |
| J-648 | 5.82 | 5,103.71 | 5,286.17 | 79.06 | Zone 1 |
| J-665 | 0 | 5,097.87 | 5,280.43 | 79.1 | Zone 4 |
| J-596 | 0 | 5,104.61 | 5,287.45 | 79.22 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J22-1169 | 3.77 | 5,097.42 | 5,280.30 | 79.24 | Zone 4 |
| H-15-PH1 | 0 | 5,097.37 | 5,280.30 | 79.27 | Zone 4 |
| H22-FH1 | 0 | 5,097.31 | 5,280.30 | 79.29 | Zone 4 |
| H22-FH1 | 0 | 5,097.23 | 5,280.30 | 79.33 | Zone 4 |
| J22-1172 | 6.79 | 5,097 | 5,280 | 79.34 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,280.48 | 79.39 | Zone 4 |
| J-767 | 8.66 | 5,097 | 5,280 | 79.39 | Zone 4 |
| J-484 | 8.3 | 5,097.17 | 5,280.43 | 79.41 | Zone 4 |
| J-25 | 0 | 5,104.44 | 5,287.73 | 79.42 | Zone 1 |
| J-705 | 0 | 5,097 | 5,280 | 79.44 | Zone 4 |
| J-603 | 11.65 | 5,102.70 | 5,286.12 | 79.48 | Zone 1 |
| J-778 | 11.31 | 5,096.86 | 5,280.30 | 79.48 | Zone 4 |
| J-27 | 0 | 5,102 | 5,285 | 79.49 | Zone 1 |
| J-671 | 8.66 | 5,096.69 | 5,280.37 | 79.59 | Zone 4 |
| J-613 | 0 | 5,097 | 5,280 | 79.64 | Zone 4 |
| J22-898 | 0 | 5,096.50 | 5,280.31 | 79.64 | Zone 4 |
| J-714 | 0 | 5,096.31 | 5,280.33 | 79.74 | Zone 4 |
| J-205 | 7.54 | 5,096 | 5,280 | 79.8 | Zone 4 |
| H-13-PH1 | 0 | 5,096 | 5,280 | 79.83 | Zone 4 |
| J-23-1207 | 3.77 | 5,095.92 | 5,280.34 | 79.91 | Zone 4 |
| J-446 | 9.32 | 5,099 | 5,284 | 79.91 | Zone 1 |
| J-485 | 17.71 | 5,095.99 | 5,280.43 | 79.92 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,280.30 | 79.97 | Zone 4 |
| H-11-PH1 | 0 | 5,095.76 | 5,280.33 | 79.97 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,280.31 | 79.98 | Zone 4 |
| J-191 | 14.73 | 5,121.58 | 5,306.16 | 79.98 | Zone 1 |
| J-325 | 13.18 | 5,095.74 | 5,280.50 | 80.06 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,280.41 | 80.09 | Zone 4 |
| J-776 | 7.54 | 5,095.41 | 5,280.30 | 80.12 | Zone 4 |
| H-14-PH1 | 0 | 5,095 | 5,280 | 80.14 | Zone 4 |
| J22-874 | 1.51 | 5,095.38 | 5,280.34 | 80.15 | Zone 4 |
| J-290 | 0 | 5,120.38 | 5,305.44 | 80.18 | Zone 1 |
| J22-1173 | 0 | 5,095.26 | 5,280.34 | 80.19 | Zone 4 |
| J-1275 | 0 | 5,095.37 | 5,280.49 | 80.21 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,280.40 | 80.23 | Zone 4 |
| H22-FH2 | 0 | 5,095 | 5,280 | 80.23 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,280.42 | 80.23 | Zone 4 |
| J-647 | 11.65 | 5,100.91 | 5,286.17 | 80.27 | Zone 1 |
| J-774 | 0 | 5,095.00 | 5,280.33 | 80.3 | Zone 4 |
| J22-1087 | 13.7 | 5,095 | 5,280 | 80.31 | Zone 4 |
| J-1260 | 0 | 5,094.97 | 5,280.49 | 80.38 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,280.32 | 80.41 | Zone 4 |
| J-340 | 6.99 | 5,096.75 | 5,282.48 | 80.48 | Zone 1 |
| J-206 | 7.54 | 5,094.63 | 5,280.44 | 80.51 | Zone 4 |
| J-431 | 3.77 | 5,094.71 | 5,280.53 | 80.52 | Zone 4 |
| J-332 | 0 | 5,097.85 | 5,283.69 | 80.52 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-771 | 14.33 | 5,094.49 | 5,280.33 | 80.52 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,280.30 | 80.54 | Zone 4 |
| J-23-1228 | 6.03 | 5,094.40 | 5,280.33 | 80.56 | Zone 4 |
| J-660 | 6.03 | 5,094 | 5,280 | 80.6 | Zone 4 |
| J-428 | 0 | 5,094 | 5,280 | 80.6 | Zone 4 |
| J-1272 | 4.53 | 5,094 | 5,280 | 80.61 | Zone 4 |
| H-12-PH1 | 0 | 5,094.20 | 5,280.32 | 80.64 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,280.46 | 80.66 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,280.53 | 80.77 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,280.46 | 80.82 | Zone 4 |
| J-444 | 0 | 5,137 | 5,323 | 80.83 | Zone 3 |
| J-761 | 0 | 5,094 | 5,280 | 80.88 | Zone 4 |
| H-10-PH1 | 0 | 5,093.60 | 5,280.33 | 80.91 | Zone 4 |
| J-657 | 7.54 | 5,093.38 | 5,280.36 | 81.02 | Zone 4 |
| J-775 | 7.54 | 5,093.32 | 5,280.32 | 81.03 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,280.37 | 81.07 | Zone 4 |
| J-23-1212 | 3.02 | 5,093.24 | 5,280.40 | 81.09 | Zone 4 |
| J-330 | 8.15 | 5,096.35 | 5,283.69 | 81.18 | Zone 1 |
| J-662 | 7.54 | 5,092.99 | 5,280.40 | 81.2 | Zone 4 |
| J22-1088 | 5.05 | 5,092.98 | 5,280.40 | 81.21 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,280.40 | 81.25 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,280.33 | 81.25 | Zone 4 |
| J22-880 | 2.26 | 5,092.85 | 5,280.40 | 81.26 | Zone 4 |
| H22-FH1 | 0 | 5,092.73 | 5,280.40 | 81.32 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,280.32 | 81.36 | Zone 4 |
| J-248 | 10.56 | 5,135.17 | 5,323.13 | 81.44 | Zone 3 |
| J-207 | 7.54 | 5,092 | 5,280 | 81.45 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,280.46 | 81.45 | Zone 4 |
| J2-IRR-11 | 0 | 5,092.39 | 5,280.40 | 81.47 | Zone 4 |
| J-658 | 11.31 | 5,092 | 5,280 | 81.49 | Zone 4 |
| J-595 | 4.66 | 5,099.13 | 5,287.26 | 81.51 | Zone 1 |
| J-23-1223 | 0 | 5,092.08 | 5,280.32 | 81.57 | Zone 4 |
| J-23-1208 | 5.28 | 5,092.02 | 5,280.32 | 81.59 | Zone 4 |
| J-429 | 0 | 5,092.08 | 5,280.44 | 81.62 | Zone 4 |
| -VILLAGE | 8.66 | 5,092.08 | 5,280.46 | 81.63 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,280.32 | 81.64 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,280.32 | 81.66 | Zone 4 |
| J-655 | 7.54 | 5,091.87 | 5,280.39 | 81.69 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,280.80 | 81.7 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,323.13 | 81.7 | Zone 3 |
| J-445 | 0 | 5,095.13 | 5,283.68 | 81.7 | Zone 1 |
| J-430 | 0 | 5,091.77 | 5,280.44 | 81.75 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,280.39 | 81.75 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,280.46 | 81.81 | Zone 4 |
| J-466 | 11.31 | 5,092 | 5,280 | 81.83 | Zone 4 |
| J-656 | 0 | 5,091 | 5,280 | 81.84 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-23-1216 | 2.26 | 5,091.71 | 5,280.63 | 81.86 | Zone 4 |
| J-454 | 9.05 | 5,091.37 | 5,280.46 | 81.93 | Zone 4 |
| J-198 | 9.8 | 5,091.35 | 5,280.48 | 81.95 | Zone 4 |
| J-664 | 6.79 | 5,091.23 | 5,280.42 | 81.97 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,280.39 | 81.98 | Zone 4 |
| J-166 | 9.32 | 5,093.26 | 5,282.48 | 81.99 | Zone 1 |
| J-23-1217 | 0 | 5,091.41 | 5,280.63 | 81.99 | Zone 4 |
| AV-2 | 0 | 5,091.29 | 5,280.63 | 82.04 | Zone 4 |
| J-23-1215 | 1.51 | 5,091.25 | 5,280.60 | 82.05 | Zone 4 |
| J-1278 | 0 | 5,091 | 5,280 | 82.06 | Zone 4 |
| J-1266 | 2.26 | 5,091.08 | 5,280.46 | 82.06 | Zone 4 |
| J-23-1219 | 1.51 | 5,091.11 | 5,280.63 | 82.12 | Zone 4 |
| J-1257 | 9.05 | 5,090.93 | 5,280.47 | 82.13 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,280.36 | 82.13 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,280.74 | 82.25 | Zone 4 |
| J-388 | 0 | 5,115.58 | 5,305.41 | 82.25 | Zone 1 |
| J-1279-IR | 8.66 | 5,090.60 | 5,280.47 | 82.27 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,280.40 | 82.29 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,280.66 | 82.29 | Zone 4 |
| J-23-1221 | 0 | 5,091 | 5,281 | 82.33 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,280.46 | 82.34 | Zone 4 |
| J-606 | 16.31 | 5,096.31 | 5,286.39 | 82.36 | Zone 1 |
| J-1259 | 4.53 | 5,090.30 | 5,280.47 | 82.4 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,280.45 | 82.4 | Zone 4 |
| J-1255 | 6.79 | 5,090.25 | 5,280.46 | 82.42 | Zone 4 |
| J-23-1213 | 4.53 | 5,090.32 | 5,280.57 | 82.43 | Zone 4 |
| J22-882 | 3.02 | 5,090.19 | 5,280.47 | 82.45 | Zone 4 |
| J-23-1214 | 0.75 | 5,090.30 | 5,280.58 | 82.45 | Zone 4 |
| J-453 | 12.82 | 5,090.15 | 5,280.46 | 82.46 | Zone 4 |
| H22-FH1 | 0 | 5,090.10 | 5,280.46 | 82.48 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,280.40 | 82.48 | Zone 4 |
| J-661 | 6.79 | 5,090 | 5,280 | 82.62 | Zone 4 |
| J-592 | 15.14 | 5,095.57 | 5,286.67 | 82.8 | Zone 1 |
| FH-914 | 0 | 5,089.29 | 5,280.40 | 82.81 | Zone 4 |
| J-199 | 10.56 | 5,089.28 | 5,280.45 | 82.83 | Zone 4 |
| FH-913 | 0 | 5,089.01 | 5,280.42 | 82.94 | Zone 4 |
| J-452 | 0 | 5,088.84 | 5,280.46 | 83.03 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,280.42 | 83.06 | Zone 4 |
| J-673 | 0 | 5,089 | 5,280 | 83.08 | Zone 4 |
| J-336 | 9.32 | 5,090.75 | 5,282.95 | 83.28 | Zone 1 |
| J-479 | 0 | 5,088.24 | 5,280.46 | 83.29 | Zone 4 |
| J-1256 | 4.53 | 5,087.68 | 5,280.47 | 83.53 | Zone 4 |
| J-324 | 3.77 | 5,087.57 | 5,280.47 | 83.59 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,280.46 | 83.62 | Zone 4 |
| LEMSCH | 17.31 | 5,087 | 5,280 | 83.63 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,280.45 | 83.68 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-200 | 10.56 | 5,087.30 | 5,280.44 | 83.69 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,280.45 | 83.7 | Zone 4 |
| 7CSELEN | 0 | 5,087.23 | 5,280.45 | 83.72 | Zone 4 |
| J-440 | 4.53 | 5,086.88 | 5,280.50 | 83.9 | Zone 4 |
| J-478 | 6.03 | 5,086.54 | 5,280.46 | 84.03 | Zone 4 |
| J-474 | 6.03 | 5,086.26 | 5,280.46 | 84.15 | Zone 4 |
| J-438 | 9.8 | 5,086.25 | 5,280.50 | 84.17 | Zone 4 |
| J-327 | 12.81 | 5,089.27 | 5,283.68 | 84.24 | Zone 1 |
| J-460 | 9.8 | 5,086.01 | 5,280.48 | 84.26 | Zone 4 |
| J-407 | 3.77 | 5,085.64 | 5,280.42 | 84.4 | Zone 4 |
| J-1274 | 0 | 5,085.67 | 5,280.47 | 84.41 | Zone 4 |
| J-201 | 10.56 | 5,085.59 | 5,280.44 | 84.43 | Zone 4 |
| J-421 | 0 | 5,085 | 5,280 | 84.51 | Zone 4 |
| J-423 | 0 | 5,085.17 | 5,280.48 | 84.63 | Zone 4 |
| J22-902 | 8.66 | 5,085.12 | 5,280.46 | 84.64 | Zone 4 |
| J-341 | 0 | 5,087.54 | 5,282.95 | 84.67 | Zone 1 |
| J-437 | 0 | 5,084.87 | 5,280.48 | 84.76 | Zone 4 |
| J-475 | 6.79 | 5,084.82 | 5,280.47 | 84.77 | Zone 4 |
| J-408 | 9.05 | 5,084.71 | 5,280.42 | 84.8 | Zone 4 |
| J-202 | 9.05 | 5,084.62 | 5,280.44 | 84.85 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,280.46 | 85.02 | Zone 4 |
| J-280 | 6.03 | 5,084 | 5,281 | 85.05 | Zone 4 |
| H22-FH1 | 0 | 5,084.13 | 5,280.46 | 85.07 | Zone 4 |
| J-285 | 9.05 | 5,083.77 | 5,280.48 | 85.23 | Zone 4 |
| J-406 | 0 | 5,083.43 | 5,280.42 | 85.36 | Zone 4 |
| J-476 | 6.03 | 5,083.43 | 5,280.47 | 85.38 | Zone 4 |
| J-339 | 8.15 | 5,085.67 | 5,282.72 | 85.38 | Zone 1 |
| J-409 | 4.53 | 5,083.24 | 5,280.43 | 85.44 | Zone 4 |
| J-323 | 13.93 | 5,083.06 | 5,280.47 | 85.54 | Zone 4 |
| J-282 | 8.3 | 5,082.97 | 5,280.56 | 85.62 | Zone 4 |
| J-471 | 11.31 | 5,082.54 | 5,280.45 | 85.76 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,280.47 | 85.76 | Zone 4 |
| J-208 | 7.54 | 5,083 | 5,280 | 85.78 | Zone 4 |
| J-273 | 5.28 | 5,082.46 | 5,280.46 | 85.79 | Zone 4 |
| J-461 | 11.31 | 5,082.44 | 5,280.47 | 85.81 | Zone 4 |
| J-590 | 10.48 | 5,088.31 | 5,286.52 | 85.89 | Zone 1 |
| J-477 | 6.03 | 5,082.15 | 5,280.47 | 85.93 | Zone 4 |
| J-473 | 9.05 | 5,082.14 | 5,280.46 | 85.93 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,280.47 | 86 | Zone 4 |
| J-459 | 6.79 | 5,081.68 | 5,280.47 | 86.13 | Zone 4 |
| J-410 | 5.28 | 5,081.37 | 5,280.44 | 86.26 | Zone 4 |
| J-215 | 16.2 | 5,081.17 | 5,280.45 | 86.35 | Zone 4 |
| J-424 | 5.05 | 5,081.15 | 5,280.46 | 86.36 | Zone 4 |
| J-405 | 6.03 | 5,081.06 | 5,280.43 | 86.38 | Zone 4 |
| J-271 | 8.3 | 5,080.96 | 5,280.46 | 86.44 | Zone 4 |
| J-320 | 8.66 | 5,080.78 | 5,280.46 | 86.52 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-604 | 6.99 | 5,086.47 | 5,286.23 | 86.55 | Zone 1 |
| J-586 | 17.31 | 5,080.67 | 5,280.47 | 86.57 | Zone 4 |
| J-462 | 13.58 | 5,080.60 | 5,280.47 | 86.6 | Zone 4 |
| J-417 | 9.05 | 5,080.47 | 5,280.47 | 86.66 | Zone 4 |
| J-272 | 5.28 | 5,080.44 | 5,280.46 | 86.67 | Zone 4 |
| J-161 | 10.48 | 5,082.45 | 5,282.51 | 86.69 | Zone 1 |
| J-597 | 13.98 | 5,085.96 | 5,286.12 | 86.73 | Zone 1 |
| J-321 | 4.53 | 5,080.22 | 5,280.46 | 86.76 | Zone 4 |
| J-214 | 7.54 | 5,080.16 | 5,280.44 | 86.78 | Zone 4 |
| J-270 | 8.3 | 5,080.13 | 5,280.45 | 86.8 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,282.82 | 86.82 | Zone 1 |
| J-411 | 5.28 | 5,079.96 | 5,280.44 | 86.87 | Zone 4 |
| J-472 | 8.3 | 5,079.93 | 5,280.45 | 86.89 | Zone 4 |
| J-404 | 6.03 | 5,079.68 | 5,280.44 | 86.99 | Zone 4 |
| J-420 | 0 | 5,079.50 | 5,280.48 | 87.09 | Zone 4 |
| J-23 | 6.99 | 5,102.29 | 5,303.48 | 87.17 | Zone 1 |
| J-458 | 7.54 | 5,079.24 | 5,280.47 | 87.19 | Zone 4 |
| J-427 | 11.65 | 5,082.41 | 5,283.69 | 87.21 | Zone 1 |
| J-470 | 0 | 5,078.94 | 5,280.45 | 87.32 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,280.47 | 87.33 | Zone 4 |
| J-277 | 9.05 | 5,078.88 | 5,280.46 | 87.34 | Zone 4 |
| J-418 | 8.3 | 5,078.88 | 5,280.48 | 87.35 | Zone 4 |
| J-239 | 7.54 | 5,078.79 | 5,280.44 | 87.37 | Zone 4 |
| J-412 | 5.28 | 5,078.68 | 5,280.45 | 87.42 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,280.47 | 87.47 | Zone 4 |
| J-403 | 5.28 | 5,078.53 | 5,280.44 | 87.49 | Zone 4 |
| J-249 | 8.3 | 5,120.99 | 5,323.13 | 87.59 | Zone 3 |
| J-587 | 8.66 | 5,078.13 | 5,280.46 | 87.67 | Zone 4 |
| J-279 | 6.79 | 5,078.05 | 5,280.46 | 87.7 | Zone 4 |
| J-269 | 7.54 | 5,077.78 | 5,280.46 | 87.82 | Zone 4 |
| J-426 | 8.3 | 5,077.65 | 5,280.47 | 87.88 | Zone 4 |
| J-212 | 6.79 | 5,077.48 | 5,280.44 | 87.94 | Zone 4 |
| J-413 | 5.28 | 5,077.49 | 5,280.46 | 87.95 | Zone 4 |
| J-425 | 3.02 | 5,077.39 | 5,280.46 | 87.99 | Zone 4 |
| J-264 | 7.54 | 5,077.35 | 5,280.47 | 88.01 | Zone 4 |
| J-402 | 6.03 | 5,077.13 | 5,280.45 | 88.1 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,323.13 | 88.11 | Zone 3 |
| J-231 | 7.54 | 5,076.71 | 5,280.45 | 88.28 | Zone 4 |
| J-276 | 10.56 | 5,076.67 | 5,280.47 | 88.3 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,280.49 | 88.4 | Zone 4 |
| J-230 | 7.54 | 5,076.30 | 5,280.44 | 88.46 | Zone 4 |
| J-414 | 0 | 5,076.16 | 5,280.50 | 88.54 | Zone 4 |
| J-589 | 13.98 | 5,082.17 | 5,286.53 | 88.55 | Zone 1 |
| J-226 | 7.54 | 5,075.95 | 5,280.44 | 88.6 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,280.50 | 88.61 | Zone 4 |
| J-331 | 10.48 | 5,079.08 | 5,283.71 | 88.66 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-------|--------------|----------------|-----------|----------------|--------|
| J-268 | 0 | 5,075.75 | 5,280.46 | 88.7 | Zone 4 |
| J-401 | 6.79 | 5,075.73 | 5,280.46 | 88.71 | Zone 4 |
| J-295 | 9.8 | 5,075.72 | 5,280.51 | 88.74 | Zone 4 |
| J-278 | 9.05 | 5,075.57 | 5,280.46 | 88.78 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,280.47 | 88.8 | Zone 4 |
| J-436 | 9.8 | 5,075.48 | 5,280.47 | 88.82 | Zone 4 |
| J-296 | 8.3 | 5,075.50 | 5,280.50 | 88.83 | Zone 4 |
| J-315 | 10.56 | 5,075.27 | 5,280.49 | 88.93 | Zone 4 |
| J-228 | 7.54 | 5,075.04 | 5,280.44 | 89 | Zone 4 |
| J-337 | 17.47 | 5,077.64 | 5,283.13 | 89.04 | Zone 1 |
| J-267 | 0 | 5,074.88 | 5,280.47 | 89.08 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,280.51 | 89.22 | Zone 4 |
| J-400 | 6.03 | 5,074.49 | 5,280.50 | 89.26 | Zone 4 |
| J-236 | 0 | 5,074.42 | 5,280.44 | 89.27 | Zone 4 |
| J-294 | 6.79 | 5,074.33 | 5,280.51 | 89.34 | Zone 4 |
| J-316 | 17.71 | 5,074.16 | 5,280.49 | 89.4 | Zone 4 |
| J-254 | 5.28 | 5,074.06 | 5,280.44 | 89.42 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,280.46 | 89.43 | Zone 4 |
| J-303 | 3.77 | 5,074.07 | 5,280.51 | 89.45 | Zone 4 |
| J-312 | 10.56 | 5,073.95 | 5,280.51 | 89.51 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,286.06 | 89.61 | Zone 1 |
| J-308 | 12.07 | 5,073.29 | 5,280.54 | 89.8 | Zone 4 |
| J-435 | 0 | 5,073.19 | 5,280.45 | 89.8 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,280.53 | 89.85 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,280.50 | 89.86 | Zone 4 |
| J-162 | 11.65 | 5,074.91 | 5,282.45 | 89.93 | Zone 1 |
| J-257 | 0 | 5,072.91 | 5,280.47 | 89.94 | Zone 4 |
| J-266 | 6.79 | 5,072.93 | 5,280.51 | 89.94 | Zone 4 |
| J-233 | 8.66 | 5,072.79 | 5,280.45 | 89.98 | Zone 4 |
| J-260 | 4.53 | 5,072.80 | 5,280.49 | 89.99 | Zone 4 |
| J-313 | 9.05 | 5,072.76 | 5,280.51 | 90.02 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,280.44 | 90.08 | Zone 4 |
| J-225 | 0 | 5,072.30 | 5,280.44 | 90.19 | Zone 4 |
| J-310 | 10.56 | 5,072.34 | 5,280.54 | 90.21 | Zone 4 |
| J-309 | 7.54 | 5,072.32 | 5,280.54 | 90.22 | Zone 4 |
| J-259 | 4.53 | 5,072.01 | 5,280.51 | 90.34 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,280.44 | 90.44 | Zone 4 |
| J-300 | 6.03 | 5,071.64 | 5,280.56 | 90.52 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,280.54 | 90.61 | Zone 4 |
| J-588 | 10.48 | 5,077.31 | 5,286.52 | 90.65 | Zone 1 |
| J-246 | 0 | 5,071.29 | 5,280.51 | 90.65 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,280.49 | 90.67 | Zone 4 |
| J-218 | 0 | 5,071.17 | 5,280.44 | 90.67 | Zone 4 |
| J-263 | 16.72 | 5,070.85 | 5,280.47 | 90.83 | Zone 4 |
| J-385 | 9.29 | 5,076.49 | 5,286.25 | 90.89 | Zone 1 |
| J-591 | 0 | 5,076.59 | 5,286.46 | 90.94 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-307 | 10.56 | 5,070.23 | 5,280.57 | 91.14 | Zone 4 |
| J-319 | 8.66 | 5,070.24 | 5,280.61 | 91.15 | Zone 4 |
| J-261 | 3.77 | 5,069.91 | 5,280.49 | 91.24 | Zone 4 |
| J-302 | 7.54 | 5,069.92 | 5,280.61 | 91.29 | Zone 4 |
| J-6 | 9.32 | 5,094.60 | 5,305.40 | 91.34 | Zone 1 |
| J-28 | 0 | 5,073.11 | 5,283.92 | 91.35 | Zone 1 |
| J-318 | 0 | 5,069.77 | 5,280.60 | 91.35 | Zone 4 |
| J-251 | 15.08 | 5,069.14 | 5,280.63 | 91.64 | Zone 4 |
| J-252 | 8.66 | 5,069.06 | 5,280.74 | 91.72 | Zone 4 |
| J-219 | 6.79 | 5,068.69 | 5,280.44 | 91.75 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,323.12 | 91.8 | Zone 3 |
| J-250 | 8.3 | 5,067.75 | 5,280.57 | 92.21 | Zone 4 |
| J-247 | 18.86 | 5,067.68 | 5,280.65 | 92.28 | Zone 4 |
| J-223 | 7.54 | 5,067.34 | 5,280.44 | 92.33 | Zone 4 |
| J-238 | 7.54 | 5,067.17 | 5,280.44 | 92.41 | Zone 4 |
| J-220 | 7.54 | 5,066.08 | 5,280.44 | 92.88 | Zone 4 |
| J-221 | 7.54 | 5,066.06 | 5,280.44 | 92.89 | Zone 4 |
| J-137 | 8.3 | 5,108.67 | 5,323.12 | 92.92 | Zone 3 |
| J-150 | 10.48 | 5,066.84 | 5,282.00 | 93.23 | Zone 1 |
| J-151 | 6.99 | 5,065.12 | 5,282.00 | 93.97 | Zone 1 |
| J-289 | 9.32 | 5,087.80 | 5,305.30 | 94.24 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,283.89 | 95.25 | Zone 4 |
| J-1242 | 0 | 5,060.56 | 5,282.38 | 96.11 | Zone 1 |
| J-158 | 23.29 | 5,060.32 | 5,282.39 | 96.22 | Zone 1 |
| J-136 | 21.87 | 5,100.47 | 5,323.10 | 96.46 | Zone 3 |
| J-164 | 16.31 | 5,059.45 | 5,282.09 | 96.47 | Zone 1 |
| J-152 | 11.65 | 5,058.73 | 5,282.00 | 96.74 | Zone 1 |
| J-163 | 15.14 | 5,058.71 | 5,282.16 | 96.82 | Zone 1 |
| J-1230 | 4.66 | 5,058.21 | 5,282.34 | 97.11 | Zone 1 |
| J-165 | 24.46 | 5,057.28 | 5,282.25 | 97.48 | Zone 1 |
| J-135 | 25.64 | 5,097.88 | 5,323.18 | 97.62 | Zone 3 |
| J-153 | 10.48 | 5,056.40 | 5,282.01 | 97.75 | Zone 1 |
| J-1231 | 9.32 | 5,055.87 | 5,282.31 | 98.12 | Zone 1 |
| J-1322 | 9.32 | 5,055.28 | 5,282.20 | 98.32 | Zone 1 |
| J-1234 | 0 | 5,054.94 | 5,282.20 | 98.47 | Zone 1 |
| J-305 | 9.32 | 5,077.07 | 5,304.57 | 98.58 | Zone 1 |
| J-154 | 16.28 | 5,053.62 | 5,282.02 | 98.97 | Zone 1 |
| J-155 | 9.32 | 5,051.81 | 5,282.00 | 99.74 | Zone 1 |
| J-36 | 0 | 5,051.03 | 5,282.02 | 100.09 | Zone 1 |
| J-344 | 0 | 5,050.64 | 5,281.81 | 100.17 | Zone 1 |
| J-304 | 9.32 | 5,072.38 | 5,304.58 | 100.61 | Zone 1 |
| J-1233 | 11.65 | 5,049.11 | 5,282.22 | 101.01 | Zone 1 |
| J-1232 | 9.32 | 5,048.93 | 5,282.25 | 101.1 | Zone 1 |
| J-611 | 8.15 | 5,049.06 | 5,282.52 | 101.16 | Zone 1 |
| J-612 | 12.41 | 5,047.26 | 5,282.53 | 101.94 | Zone 1 |
| J-1236 | 4.66 | 5,046.50 | 5,282.25 | 102.15 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-48 | 17.47 | 5,042.96 | 5,284.63 | 104.72 | Zone 1 |
| J-49 | 17.47 | 5,042.76 | 5,284.50 | 104.74 | Zone 1 |
| J-47 | 13.98 | 5,043.03 | 5,284.93 | 104.81 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,288.69 | 105.7 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,288.59 | 105.71 | Zone 4 |
| J-35 | 12.81 | 5,040.53 | 5,285.85 | 106.3 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,287.15 | 106.6 | Zone 1 |
| J-1252IRF | 14.71 | 5,040.67 | 5,286.98 | 106.73 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,287.15 | 106.97 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,287.15 | 107.04 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,289.35 | 107.18 | Zone 4 |
| J-14 | 0 | 5,039.76 | 5,287.16 | 107.2 | Zone 1 |
| J-13 | 9.29 | 5,039.32 | 5,287.16 | 107.39 | Zone 1 |
| J-828 | 0 | 5,041.01 | 5,290.15 | 107.95 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,290.40 | 108.08 | Zone 4 |
| J-8 | 9.32 | 5,054.92 | 5,305.24 | 108.46 | Zone 1 |
| J-10 | 9.32 | 5,052.43 | 5,303.07 | 108.6 | Zone 1 |
| J-9 | 9.32 | 5,049.50 | 5,303.84 | 110.21 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,292.67 | 110.43 | Zone 1 |
| J-11 | 0 | 5,034.44 | 5,298.86 | 114.58 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-424 | ERPUMPST | J-243 | 126 | 6 | 140 | 417 | 4.73 | 1.62 | 12.8 | Zone 1 |
| P-423 | J-242 | ERPUMPST | 50 | 6 | 140 | 417 | 4.73 | 0.64 | 12.8 | Zone 1 |
| P-322(1) | (COLDSPR | J-1245 | 39 | 8 | 140 | 722 | 4.61 | 0.34 | 8.7 | Zone 1 |
| P-587 | J-344 | (COLDSPR | 41 | 8 | 140 | 721 | 4.6 | 0.36 | 8.7 | Zone 2 |
| P-318 | WELL6 | J-192 | 602 | 8 | 140 | 691 | 4.41 | 4.83 | 8.03 | Zone 4 |
| P-26 | J-23 | ERTOWNCA | 2116 | 8 | 140 | 636 | 4.06 | 14.59 | 6.89 | Zone 3 |
| P-1 | TANK1 | J-1 | 813 | 8 | 120 | 604 | 3.86 | 6.78 | 8.34 | Zone 4 |
| P-317 | J-192 | J-3 | 1062 | 12 | 120 | 1,290 | 3.66 | 5 | 4.71 | Zone 1 |
| P-4(1) | J-3 | J-1262 | 234 | 12 | 120 | 1,290 | 3.66 | 1.1 | 4.71 | Zone 1 |
| P-4(2) | J-1262 | J-4 | 263 | 12 | 120 | 1,284 | 3.64 | 1.23 | 4.67 | Zone 2 |
| P-1392 | J-826 | J-828 | 46 | 8 | 140 | 570 | 3.64 | 0.26 | 5.62 | Zone 1 |
| P-1965 | WELL1 | J-826 | 79 | 8 | 140 | 570 | 3.64 | 0.45 | 5.62 | Zone 1 |
| P-1393 | J-828 | J-827 | 141 | 8 | 140 | 570 | 3.64 | 0.79 | 5.62 | Zone 2 |
| P-1326 | NDYKEWEL | ANDYKEWE | 83 | 10 | 140 | 866 | 3.54 | 0.34 | 4.11 | Zone 1 |
| P-1325 | R-5 | NDYKEWEL | 28 | 10 | 140 | 866 | 3.54 | 0.11 | 4.12 | Zone 2 |
| P-1324 | ANDYKEWE | J-797 | 45 | 10 | 140 | 866 | 3.54 | 0.18 | 4.11 | Zone 1 |
| P-676 | J-388 | J-23 | 519 | 10 | 140 | 820 | 3.35 | 1.93 | 3.72 | Zone 2 |
| P-40 | J-13 | J-35 | 302 | 8 | 140 | 495 | 3.16 | 1.31 | 4.32 | Zone 2 |
| 322(2) | J-1245 | J-1246 | 454 | 8 | 140 | 455 | 2.91 | 1.68 | 3.71 | Zone 1 |
| P-586 | J-36 | J-344 | 56 | 8 | 140 | 455 | 2.9 | 0.21 | 3.7 | Zone 4 |
| P-1320 | J-797 | J-54 | 442 | 8 | 110 | 451 | 2.88 | 2.52 | 5.7 | Zone 2 |
| P-331 | J-4 | J-189 | 218 | 8 | 140 | 450 | 2.87 | 0.79 | 3.63 | Zone 1 |
| P-982 | J-49 | J-612 | 583 | 8 | 140 | 433 | 2.76 | 1.97 | 3.38 | Zone 1 |
| P-419 | J-242 | TANK4 | 92 | 14 | 140 | -1,309 | 2.73 | 0.16 | 1.72 | Zone 4 |
| P-985 | J-612 | J-36 | 165 | 8 | 140 | 412 | 2.63 | 0.51 | 3.09 | Zone 4 |
| P-965 | J-596 | J-595 | 86 | 10 | 140 | 631 | 2.58 | 0.2 | 2.29 | Zone 1 |
| P-27 | ERTOWNCA | J-25 | 506 | 10 | 140 | 631 | 2.58 | 1.16 | 2.29 | Zone 1 |
| P-963 | J-25 | J-596 | 123 | 10 | 140 | 631 | 2.58 | 0.28 | 2.29 | Zone 1 |
| P-962 | J-595 | J-592 | 260 | 10 | 140 | 626 | 2.56 | 0.59 | 2.26 | Zone 1 |
| P-673 | J-189 | J-387 | 352 | 4 | 140 | 100 | 2.54 | 2.29 | 6.5 | Zone 1 |
| P-1321 | J-797 | J-63 | 1141 | 8 | 110 | 398 | 2.54 | 5.15 | 4.51 | Zone 4 |
| P-57 | J-35 | J-49 | 497 | 8 | 140 | 386 | 2.46 | 1.36 | 2.73 | Zone 2 |
| P-69 | J-54 | J-55 | 485 | 6 | 140 | 210 | 2.39 | 1.75 | 3.61 | Zone 1 |
| P-1319 | J-795 | J-609 | 50 | 10 | 140 | 570 | 2.33 | 0.09 | 1.9 | Zone 1 |
| P-1391 | J-827 | J-795 | 352 | 10 | 140 | 570 | 2.33 | 0.67 | 1.9 | Zone 2 |
| P-139 | J-609 | J-608 | 2481 | 10 | 140 | 570 | 2.33 | 4.7 | 1.9 | Zone 1 |
| P-1310 | R-3 | WELL1 | 32 | 10 | 140 | 570 | 2.33 | 0.06 | 1.89 | Zone 4 |
| P-138 | J-608 | J-252 | 1660 | 10 | 140 | 570 | 2.33 | 3.15 | 1.9 | Zone 4 |
| P-675 | J-4 | J-388 | 2121 | 12 | 140 | 820 | 2.33 | 3.24 | 1.53 | Zone 4 |
| P-338 | J-190 | J-191 | 267 | 8 | 140 | 350 | 2.24 | 0.61 | 2.28 | Zone 1 |
| P-337 | J-189 | J-190 | 480 | 8 | 140 | 350 | 2.24 | 1.1 | 2.28 | Zone 4 |
| P-576 | J-331 | J-337 | 264 | 8 | 140 | 343 | 2.19 | 0.58 | 2.2 | Zone 1 |
| P-12 | J-11 | J-12 | 2490 | 10 | 110 | 519 | 2.12 | 6.19 | 2.49 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-13 | J-12 | J-13 | 2214 | 10 | 110 | 519 | 2.12 | 5.51 | 2.49 | Zone 1 |
| P-11 | J-10 | J-11 | 1692 | 10 | 110 | 519 | 2.12 | 4.21 | 2.49 | Zone 1 |
| P-315 | WELL7 | WELL6 | 1186 | 8 | 140 | 332 | 2.12 | 2.44 | 2.06 | Zone 2 |
| P1582 | J-1298 | J-1299 | 239 | 8 | 140 | 313 | 2 | 0.44 | 1.86 | Zone 4 |
| P1581 | J-1246 | J-1298 | 1570 | 8 | 140 | 313 | 2 | 2.91 | 1.86 | Zone 3 |
| P-534 | J-289 | J-304 | 401 | 8 | 140 | 309 | 1.97 | 0.73 | 1.81 | Zone 1 |
| P-1233 | J-760 | J-242 | 1317 | 14 | 130 | -893 | 1.86 | 1.28 | 0.97 | Zone 2 |
| P-533 | J-304 | J-9 | 460 | 8 | 140 | 291 | 1.85 | 0.74 | 1.61 | Zone 2 |
| P-961 | J-594 | J-27 | 683 | 10 | 140 | 439 | 1.79 | 0.8 | 1.17 | Zone 1 |
| P-770 | J-28 | J-331 | 185 | 10 | 140 | 439 | 1.79 | 0.22 | 1.17 | Zone 1 |
| P-30 | J-27 | J-28 | 1146 | 10 | 140 | 439 | 1.79 | 1.34 | 1.17 | Zone 1 |
| P-1228 | J-241 | J-760 | 13 | 14 | 140 | -853 | 1.78 | 0.01 | 0.77 | Zone 2 |
| P-2 | J-1 | J-2 | 910 | 12 | 120 | 604 | 1.71 | 1.05 | 1.16 | Zone 1 |
| P-316 | J-2 | J-192 | 912 | 12 | 120 | 604 | 1.71 | 1.06 | 1.16 | Zone 2 |
| P1629 | J-1299 | J-1339 | 155 | 6 | 140 | 144 | 1.64 | 0.28 | 1.79 | Zone 2 |
| P-333 | J-136 | AXWINGRE | 306 | 6 | 140 | 133 | 1.51 | 0.47 | 1.54 | Zone 1 |
| P-677 | J-184 | J-389 | 93 | 8 | 140 | -236 | 1.51 | 0.1 | 1.1 | Zone 2 |
| P-332 | AXWINGRE | J-127 | 335 | 6 | 140 | 133 | 1.5 | 0.51 | 1.53 | Zone 4 |
| P-67 | J-54 | J-15 | 955 | 8 | 110 | 235 | 1.5 | 1.63 | 1.71 | Zone 4 |
| P1631 | J-1339 | J-1315-1 | 171 | 6 | 140 | 131 | 1.48 | 0.25 | 1.49 | Zone 4 |
| P-777(1) | WELL8 | J-23-1222 | 78 | 10 | 140 | 357 | 1.46 | 0.06 | 0.8 | Zone 2 |
| P-508 | J-191 | J-289 | 824 | 8 | 140 | 228 | 1.46 | 0.85 | 1.03 | Zone 1 |
| P-984 | J-9 | J-10 | 987 | 10 | 140 | 351 | 1.44 | 0.76 | 0.77 | Zone 4 |
| P-48 | J-15 | J-42 | 331 | 8 | 110 | 225 | 1.43 | 0.52 | 1.57 | Zone 1 |
| P-447 | J-42 | J-255 | 249 | 8 | 140 | 219 | 1.4 | 0.24 | 0.96 | Zone 4 |
| P-823 | J-480 | J-241 | 184 | 14 | 140 | -662 | 1.38 | 0.09 | 0.49 | Zone 1 |
| P-824 | J-398 | J-480 | 112 | 14 | 140 | -640 | 1.33 | 0.05 | 0.46 | Zone 1 |
| P-153 | J-57 | J-102 | 374 | 6 | 140 | 116 | 1.31 | 0.45 | 1.19 | Zone 4 |
| P-826 | J-395 | J-481 | 114 | 14 | 140 | -619 | 1.29 | 0.05 | 0.43 | Zone 1 |
| P-1345 | J-255 | J-50 | 228 | 8 | 140 | 201 | 1.28 | 0.19 | 0.81 | Zone 2 |
| P-178 | J-53 | J-112 | 531 | 6 | 140 | 112 | 1.27 | 0.59 | 1.12 | Zone 1 |
| P-825 | J-481 | J-398 | 175 | 14 | 140 | -600 | 1.25 | 0.07 | 0.4 | Zone 4 |
| P-73 | J-58 | J-43 | 392 | 8 | 140 | 180 | 1.15 | 0.26 | 0.67 | Zone 2 |
| P-463 | TANK3 | J-243 | 652 | 10 | 140 | -279 | 1.14 | 0.33 | 0.5 | Zone 2 |
| P-76 | J-55 | J-59 | 544 | 6 | 140 | 100 | 1.13 | 0.49 | 0.91 | Zone 1 |
| P-698 | J-399 | J-395 | 172 | 14 | 140 | -542 | 1.13 | 0.06 | 0.33 | Zone 4 |
| P-70 | J-55 | J-56 | 484 | 6 | 140 | 99 | 1.13 | 0.44 | 0.9 | Zone 1 |
| P-147 | J-43 | J-101 | 346 | 8 | 140 | 176 | 1.12 | 0.22 | 0.64 | Zone 2 |
| P-84 | J-63 | J-40 | 1489 | 10 | 140 | 269 | 1.1 | 0.7 | 0.47 | Zone 1 |
| P-582 | J-337 | J-341 | 296 | 8 | 140 | 171 | 1.09 | 0.18 | 0.6 | Zone 2 |
| P-1545 | DRIVEBPS | J-344 | 112 | 10 | 140 | 267 | 1.09 | 0.05 | 0.46 | Zone 2 |
| P-55 | J-35 | J-47 | 1098 | 6 | 140 | 96 | 1.09 | 0.92 | 0.84 | Zone 2 |
| P-148 | J-101 | J-44 | 342 | 8 | 140 | 166 | 1.06 | 0.2 | 0.57 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1174 | J-732 | J-688 | 219 | 6 | 140 | -91 | 1.04 | 0.17 | 0.77 | Zone 2 |
| P-1173 | J-730 | J-732 | 51 | 6 | 140 | -91 | 1.04 | 0.04 | 0.76 | Zone 3 |
| P-959 | J-592 | J-589 | 340 | 10 | 140 | 252 | 1.03 | 0.14 | 0.42 | Zone 4 |
| P-584 | J-342 | J-339 | 195 | 8 | 140 | 161 | 1.03 | 0.11 | 0.54 | Zone 2 |
| P-583 | J-341 | J-342 | 233 | 8 | 140 | 161 | 1.03 | 0.13 | 0.54 | Zone 2 |
| P-75 | J-59 | J-57 | 486 | 6 | 140 | 91 | 1.03 | 0.37 | 0.76 | Zone 4 |
| P-1306 | WELL6_P | WELL6 | 31 | 12 | 140 | 359 | 1.02 | 0.01 | 0.33 | Zone 2 |
| P-1307 | R-2 | WELL6_P | 16 | 12 | 140 | 359 | 1.02 | 0.01 | 0.33 | Zone 4 |
| P-1312 | R-4 | WELL8_P | 15 | 12 | 140 | 357 | 1.01 | 0 | 0.32 | Zone 4 |
| P-1313 | WELL8_P | WELL8 | 18 | 12 | 140 | 357 | 1.01 | 0.01 | 0.32 | Zone 4 |
| P-530 | J-252 | J-302 | 325 | 10 | 140 | 247 | 1.01 | 0.13 | 0.4 | Zone 1 |
| P1583 | J-1299 | J-1340 | 173 | 8 | 140 | 155 | 0.99 | 0.09 | 0.51 | Zone 4 |
| P-776 | J-337 | J-158 | 1465 | 8 | 140 | 155 | 0.99 | 0.74 | 0.5 | Zone 3 |
| P-579 | J-339 | J-161 | 418 | 8 | 140 | 153 | 0.98 | 0.21 | 0.49 | Zone 1 |
| P-680 | J-389 | J-390 | 376 | 10 | 140 | -239 | 0.98 | 0.14 | 0.38 | Zone 4 |
| P1647 | J-1338 | J-1315-1 | 219 | 6 | 140 | -84 | 0.95 | 0.14 | 0.66 | Zone 4 |
| P-699 | J-391 | J-399 | 143 | 12 | 140 | -332 | 0.94 | 0.04 | 0.29 | Zone 4 |
| P-966 | J-597 | J-594 | 185 | 10 | 140 | 231 | 0.94 | 0.07 | 0.35 | Zone 4 |
| P-1304 | WELL7_P | WELL7 | 20 | 12 | 140 | 332 | 0.94 | 0.01 | 0.29 | Zone 4 |
| P-1303 | R-1 | WELL7_P | 32 | 12 | 140 | 332 | 0.94 | 0.01 | 0.29 | Zone 4 |
| P-71 | J-56 | J-57 | 665 | 6 | 140 | 83 | 0.94 | 0.43 | 0.64 | Zone 4 |
| P-56 | J-47 | J-48 | 478 | 6 | 140 | 82 | 0.93 | 0.3 | 0.63 | Zone 2 |
| 322(2) | J-1246 | J-53 | 215 | 8 | 140 | 142 | 0.9 | 0.09 | 0.43 | Zone 1 |
| P-827 | J-482 | J-391 | 159 | 12 | 140 | -319 | 0.9 | 0.04 | 0.27 | Zone 1 |
| 1623-1 | J-1340 | J-1335 | 99 | 8 | 140 | 142 | 0.9 | 0.04 | 0.43 | Zone 1 |
| P-978 | J-592 | J-606 | 661 | 8 | 140 | 141 | 0.9 | 0.28 | 0.42 | Zone 4 |
| P-777(2) | J-23-1222 | J-423 | 817 | 10 | 140 | 218 | 0.89 | 0.26 | 0.32 | Zone 1 |
| P-1035 | J-592 | J-644 | 567 | 10 | 140 | 218 | 0.89 | 0.18 | 0.32 | Zone 1 |
| P-958 | J-589 | J-591 | 197 | 10 | 140 | 217 | 0.89 | 0.06 | 0.32 | Zone 2 |
| P-957 | J-591 | J-385 | 669 | 10 | 140 | 217 | 0.89 | 0.21 | 0.32 | Zone 4 |
| P-1504 | J-23-1219 | J-23-1220 | 71 | 8 | 140 | -139 | 0.89 | 0.03 | 0.41 | Zone 4 |
| P-1505 | J-23-1220 | J-23-1221 | 107 | 8 | 140 | -139 | 0.89 | 0.04 | 0.41 | Zone 4 |
| P-1506 | J-23-1221 | J-23-1222 | 86 | 8 | 140 | -139 | 0.89 | 0.04 | 0.41 | Zone 4 |
| P-1346 | J-50 | J-58 | 384 | 8 | 140 | 136 | 0.87 | 0.15 | 0.39 | Zone 1 |
| 1502(1) | J-23-1215 | J-23-1219 | 81 | 8 | 140 | -135 | 0.86 | 0.03 | 0.39 | Zone 2 |
| P-334 | J-33 | RACOBOOS | 411 | 8 | 140 | 135 | 0.86 | 0.16 | 0.39 | Zone 4 |
| P-335 | RACOBOOS | J-135 | 176 | 8 | 140 | 135 | 0.86 | 0.07 | 0.39 | Zone 4 |
| P-1216 | J-758 | J-399 | 325 | 10 | 140 | -210 | 0.86 | 0.1 | 0.3 | Zone 4 |
| P-1501 | J-23-1214 | J-23-1215 | 41 | 8 | 140 | -134 | 0.85 | 0.02 | 0.39 | Zone 2 |
| P-964 | J-385 | J-594 | 655 | 10 | 140 | 208 | 0.85 | 0.19 | 0.29 | Zone 1 |
| P-1500 | J-23-1213 | J-23-1214 | 49 | 8 | 140 | -133 | 0.85 | 0.02 | 0.38 | Zone 1 |
| P-1215 | J-757 | J-758 | 424 | 10 | 140 | -203 | 0.83 | 0.12 | 0.28 | Zone 4 |
| P-1499 | J22-882 | J-23-1213 | 278 | 8 | 140 | -128 | 0.82 | 0.1 | 0.36 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-259(2) | J-1242 | J-165 | 357 | 8 | 140 | 128 | 0.82 | 0.13 | 0.36 | Zone 2 |
| P-259(1) | J-158 | J-1242 | 44 | 8 | 140 | 128 | 0.82 | 0.02 | 0.35 | Zone 1 |
| P-1037 | J-645 | J-646 | 444 | 10 | 140 | 198 | 0.81 | 0.12 | 0.27 | Zone 1 |
| P-1036 | J-644 | J-645 | 470 | 10 | 140 | 198 | 0.81 | 0.13 | 0.27 | Zone 1 |
| P-342 | J-195 | J-184 | 195 | 8 | 140 | -125 | 0.8 | 0.07 | 0.34 | Zone 2 |
| 22-N-7 | J22-1175 | J22-882 | 16 | 8 | 140 | -125 | 0.8 | 0.01 | 0.34 | Zone 4 |
| 22-N-7 | J22-1089 | J22-1175 | 32 | 8 | 140 | -125 | 0.8 | 0.01 | 0.35 | Zone 4 |
| P-1120 | J-482 | J-679 | 119 | 6 | 140 | 70 | 0.8 | 0.06 | 0.47 | Zone 4 |
| P-1090 | J-675 | FH-927 | 59 | 10 | 140 | -195 | 0.8 | 0.02 | 0.26 | Zone 1 |
| P-1213 | J-PH19IRR | J-757 | 62 | 10 | 140 | -195 | 0.8 | 0.02 | 0.26 | Zone 1 |
| P-1091 | FH-927 | FH-926 | 303 | 10 | 140 | -195 | 0.8 | 0.08 | 0.26 | Zone 4 |
| P-1094 | J-685 | FH-925 | 120 | 10 | 140 | -195 | 0.8 | 0.03 | 0.26 | Zone 2 |
| P-1095 | FH-925 | J-PH19IRR | 190 | 10 | 140 | -195 | 0.8 | 0.05 | 0.26 | Zone 4 |
| P-1082 | FH-926 | J-685 | 330 | 10 | 140 | -195 | 0.8 | 0.09 | 0.26 | Zone 4 |
| P-9 | J-8 | J-9 | 2237 | 6 | 120 | 70 | 0.8 | 1.4 | 0.63 | Zone 4 |
| P-975 | J-606 | J-604 | 482 | 8 | 140 | 125 | 0.8 | 0.16 | 0.34 | Zone 4 |
| P-693 | J-392 | J-396 | 462 | 10 | 140 | -194 | 0.79 | 0.12 | 0.26 | Zone 1 |
| P-152 | J-102 | J-100 | 351 | 6 | 140 | 69 | 0.78 | 0.16 | 0.46 | Zone 1 |
| P-1191 | J-743 | J-742 | 132 | 10 | 140 | -190 | 0.78 | 0.03 | 0.25 | Zone 4 |
| P-1189 | J-742 | J-241 | 118 | 10 | 140 | -190 | 0.78 | 0.03 | 0.25 | Zone 4 |
| P-438 | J-252 | J-251 | 442 | 10 | 140 | 190 | 0.77 | 0.11 | 0.25 | Zone 4 |
| P-146 | J-100 | J-91 | 441 | 6 | 140 | 67 | 0.76 | 0.19 | 0.43 | Zone 1 |
| P-1544 | J-1245 | SDRIVEBPS | 110 | 12 | 140 | 267 | 0.76 | 0.02 | 0.19 | Zone 1 |
| P-974 | J-604 | J-597 | 338 | 8 | 140 | 118 | 0.75 | 0.1 | 0.3 | Zone 4 |
| P-685 | J-390 | J-392 | 472 | 10 | 140 | -183 | 0.75 | 0.11 | 0.23 | Zone 2 |
| P-1192 | J-396 | J-743 | 405 | 10 | 140 | -182 | 0.74 | 0.09 | 0.23 | Zone 4 |
| P-343 | J-196 | J-195 | 273 | 8 | 140 | -116 | 0.74 | 0.08 | 0.3 | Zone 3 |
| P-764 | J-441 | J-346 | 520 | 6 | 140 | -65 | 0.73 | 0.21 | 0.4 | Zone 3 |
| P-344 | J-197 | J-196 | 183 | 8 | 140 | -113 | 0.72 | 0.05 | 0.28 | Zone 4 |
| P-25 | J-23 | J-10 | 1879 | 10 | 140 | 177 | 0.72 | 0.41 | 0.22 | Zone 2 |
| P-436 | J-251 | J-250 | 302 | 10 | 140 | 175 | 0.71 | 0.06 | 0.21 | Zone 3 |
| P-828 | J-352 | J-482 | 141 | 12 | 140 | -248 | 0.7 | 0.02 | 0.17 | Zone 4 |
| P-529 | J-302 | J-300 | 262 | 10 | 140 | 172 | 0.7 | 0.05 | 0.21 | Zone 2 |
| P-345 | J-198 | J-197 | 215 | 8 | 140 | -110 | 0.7 | 0.06 | 0.26 | Zone 4 |
| P-83 | J-63 | J-16 | 1068 | 8 | 110 | 109 | 0.7 | 0.44 | 0.41 | Zone 4 |
| P-93 | J-71 | J-70 | 252 | 8 | 140 | 109 | 0.7 | 0.07 | 0.26 | Zone 1 |
| P-938 | J-483 | J-576 | 490 | 6 | 140 | 61 | 0.7 | 0.18 | 0.37 | Zone 2 |
| P-151 | J-102 | J-38 | 876 | 6 | 140 | 61 | 0.69 | 0.32 | 0.36 | Zone 1 |
| P-339 | J-191 | J-193 | 847 | 8 | 140 | 107 | 0.69 | 0.22 | 0.26 | Zone 2 |
| P-1038 | J-646 | J-647 | 363 | 10 | 140 | 168 | 0.69 | 0.07 | 0.2 | Zone 2 |
| P-434 | J-250 | J-246 | 311 | 10 | 140 | 166 | 0.68 | 0.06 | 0.19 | Zone 4 |
| P-1141 | J-714 | J-671 | 95 | 6 | 140 | -59 | 0.67 | 0.03 | 0.34 | Zone 4 |
| P-1546 | J-706 | J-1252IRR | 196 | 3 | 130 | 15 | 0.67 | 0.17 | 0.88 | Zone 1 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|------------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-260 | J-165 | J-163 | 364 | 8 | 140 | 104 | 0.66 | 0.09 | 0.24 | Zone 4 |
| P-97 | J-70 | J-74 | 290 | 8 | 140 | 103 | 0.65 | 0.07 | 0.24 | Zone 1 |
| P-1101 | FH-921 | J-678 | 237 | 6 | 140 | 58 | 0.65 | 0.08 | 0.33 | Zone 4 |
| P-1100 | J-679 | FH-921 | 205 | 6 | 140 | 58 | 0.65 | 0.07 | 0.33 | Zone 4 |
| P-1098 | FH-922 | J-677 | 233 | 6 | 140 | 58 | 0.65 | 0.08 | 0.33 | Zone 1 |
| P-1099 | J-678 | FH-922 | 76 | 6 | 140 | 58 | 0.65 | 0.02 | 0.33 | Zone 4 |
| P-500 | J-184 | J-286 | 308 | 8 | 140 | 102 | 0.65 | 0.07 | 0.23 | Zone 4 |
| P-763 | J-283 | J-441 | 307 | 6 | 140 | -56 | 0.64 | 0.1 | 0.31 | Zone 2 |
| P-674 | J-387 | J-306 | 465 | 8 | 140 | 100 | 0.64 | 0.1 | 0.22 | Zone 4 |
| -N-15-122 | IRR-117 | J22-1089 | 276 | 10 | 140 | -155 | 0.63 | 0.05 | 0.17 | Zone 4 |
| -N-15-122 | J22-1088 | IRR-117 | 50 | 10 | 140 | -155 | 0.63 | 0.01 | 0.17 | Zone 4 |
| P-766 | J-442 | J-348 | 605 | 6 | 140 | -55 | 0.63 | 0.18 | 0.3 | Zone 4 |
| P-340 | J-193 | J-5 | 1510 | 8 | 140 | 98 | 0.63 | 0.33 | 0.22 | Zone 4 |
| P-552 | J-318 | J-311 | 307 | 8 | 140 | 97 | 0.62 | 0.06 | 0.21 | Zone 4 |
| P-1349 | J-805 | J-50 | 40 | 6 | 140 | -54 | 0.61 | 0.01 | 0.29 | Zone 4 |
| P-1350 | J-194 | J-805 | 198 | 6 | 140 | -54 | 0.61 | 0.06 | 0.29 | Zone 4 |
| P-1102 | J-576 | J-570 | 779 | 6 | 140 | 52 | 0.59 | 0.21 | 0.27 | Zone 2 |
| 2-N-15-122 | J22-1087 | J22-1088 | 349 | 10 | 140 | -145 | 0.59 | 0.05 | 0.15 | Zone 1 |
| P-561 | J-281 | J-325 | 267 | 8 | 140 | 92 | 0.58 | 0.05 | 0.19 | Zone 4 |
| P-492 | J-283 | J-281 | 270 | 8 | 140 | 90 | 0.58 | 0.05 | 0.18 | Zone 4 |
| P-507 | J-290 | J-289 | 725 | 8 | 140 | 90 | 0.58 | 0.13 | 0.19 | Zone 4 |
| P-536 | J-306 | J-290 | 170 | 8 | 140 | 90 | 0.58 | 0.03 | 0.19 | Zone 4 |
| P-257 | J-163 | J-164 | 392 | 8 | 140 | 89 | 0.57 | 0.07 | 0.18 | Zone 1 |
| P-6 | J-5 | J-6 | 888 | 8 | 120 | 89 | 0.57 | 0.21 | 0.24 | Zone 2 |
| P-1040 | J-647 | J-597 | 339 | 10 | 140 | 139 | 0.57 | 0.05 | 0.14 | Zone 4 |
| P-421 | J-243 | J-237 | 1148 | 10 | 140 | 138 | 0.56 | 0.16 | 0.14 | Zone 2 |
| P-768 | J-443 | J-352 | 684 | 6 | 140 | -49 | 0.56 | 0.17 | 0.25 | Zone 2 |
| P-1068 | J-669 | J-670 | 75 | 6 | 140 | 49 | 0.55 | 0.02 | 0.24 | Zone 4 |
| P-112 | J-80 | J-33 | 816 | 10 | 140 | 135 | 0.55 | 0.11 | 0.13 | Zone 4 |
| P1514 | J-158 | J-1230 | 340 | 8 | 140 | 84 | 0.54 | 0.06 | 0.16 | Zone 4 |
| P-398 | J-237 | J-185 | 279 | 10 | 140 | 132 | 0.54 | 0.04 | 0.13 | Zone 1 |
| P1623-2 | J-1335 | J-1342 | 150 | 8 | 140 | 84 | 0.54 | 0.02 | 0.16 | Zone 2 |
| P-829 | J-483 | J-352 | 144 | 12 | 140 | -189 | 0.54 | 0.01 | 0.1 | Zone 2 |
| P-751 | J-286 | J-438 | 718 | 6 | 140 | 47 | 0.54 | 0.16 | 0.23 | Zone 4 |
| P-765 | J-284 | J-442 | 439 | 6 | 140 | -47 | 0.53 | 0.1 | 0.23 | Zone 4 |
| P-253 | J-162 | J-158 | 377 | 8 | 140 | 81 | 0.52 | 0.06 | 0.15 | Zone 1 |
| P-299 | J-185 | J-140 | 377 | 10 | 140 | 126 | 0.52 | 0.04 | 0.12 | Zone 4 |
| P-1066 | J-449 | J-673 | 230 | 8 | 140 | 81 | 0.52 | 0.04 | 0.15 | Zone 4 |
| P-1067 | J-673 | J-654 | 180 | 8 | 140 | 81 | 0.52 | 0.03 | 0.15 | Zone 4 |
| P-1108 | FH-919 | J-570 | 65 | 6 | 140 | -45 | 0.51 | 0.01 | 0.21 | Zone 1 |
| P-525 | J-298 | J-300 | 268 | 10 | 140 | -125 | 0.51 | 0.03 | 0.11 | Zone 4 |
| P1519 | J-1230 | J-1231 | 192 | 8 | 140 | 80 | 0.51 | 0.03 | 0.15 | Zone 4 |
| P-439 | J-252 | J-247 | 822 | 10 | 140 | 124 | 0.51 | 0.09 | 0.11 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-8 | J-6 | J-8 | 834 | 8 | 120 | 79 | 0.51 | 0.16 | 0.19 | Zone 2 |
| P-74 | J-57 | J-58 | 581 | 6 | 140 | 44 | 0.5 | 0.12 | 0.2 | Zone 4 |
| P-1235 | J-656 | J-761 | 254 | 8 | 140 | 78 | 0.5 | 0.04 | 0.14 | Zone 4 |
| P-749 | J-284 | J-437 | 759 | 6 | 140 | 44 | 0.5 | 0.15 | 0.2 | Zone 4 |
| P1637 | J-1335 | J-1314-1 | 5071 | 6 | 140 | 44 | 0.5 | 1 | 0.2 | Zone 4 |
| P-1085 | J-688 | J-687 | 154 | 10 | 140 | -122 | 0.5 | 0.02 | 0.11 | Zone 4 |
| P-1084 | J-687 | J-675 | 169 | 10 | 140 | -122 | 0.5 | 0.02 | 0.11 | Zone 4 |
| P-255 | J-161 | J-162 | 474 | 8 | 140 | 76 | 0.49 | 0.06 | 0.14 | Zone 4 |
| P-1097 | J-677 | FH-923 | 73 | 6 | 140 | 43 | 0.48 | 0.01 | 0.19 | Zone 1 |
| P-1096 | FH-923 | J-676 | 284 | 6 | 140 | 43 | 0.48 | 0.05 | 0.19 | Zone 2 |
| P-1092 | J-674 | FH-924 | 47 | 6 | 140 | -43 | 0.48 | 0.01 | 0.19 | Zone 4 |
| P-1093 | FH-924 | J-676 | 209 | 6 | 140 | -43 | 0.48 | 0.04 | 0.19 | Zone 4 |
| P1587 | J-1304 | J-1301 | 5075 | 6 | 140 | -42 | 0.48 | 0.94 | 0.19 | Zone 4 |
| P-1079 | FH-929 | J-681 | 259 | 6 | 140 | -42 | 0.48 | 0.05 | 0.18 | Zone 4 |
| P-1080 | J-683 | FH-929 | 299 | 6 | 140 | -42 | 0.48 | 0.05 | 0.18 | Zone 2 |
| P-767 | J-286 | J-443 | 581 | 6 | 140 | -42 | 0.48 | 0.11 | 0.18 | Zone 4 |
| P-1049 | J-654 | J-656 | 264 | 8 | 140 | 73 | 0.47 | 0.03 | 0.13 | Zone 4 |
| P1645 | J-1338 | J-1329 | 252 | 6 | 140 | 41 | 0.46 | 0.04 | 0.17 | Zone 4 |
| P-499 | J-286 | J-284 | 253 | 8 | 140 | 73 | 0.46 | 0.03 | 0.12 | Zone 2 |
| P-258 | J-164 | J-154 | 602 | 8 | 140 | 72 | 0.46 | 0.07 | 0.12 | Zone 2 |
| P-700 | J-311 | J-400 | 237 | 6 | 140 | 41 | 0.46 | 0.04 | 0.17 | Zone 2 |
| P-1230 | J-759 | J-760 | 89 | 6 | 140 | -40 | 0.45 | 0.01 | 0.16 | Zone 4 |
| P-1217 | J-747 | J-759 | 168 | 6 | 140 | -40 | 0.45 | 0.03 | 0.17 | Zone 4 |
| P-324 | J-51 | J-194 | 661 | 6 | 140 | -40 | 0.45 | 0.11 | 0.17 | Zone 4 |
| P-191 | J-128 | J-127 | 451 | 8 | 140 | -70 | 0.45 | 0.05 | 0.12 | Zone 2 |
| P1518 | J-1231 | J-1232 | 454 | 8 | 140 | 70 | 0.45 | 0.05 | 0.12 | Zone 1 |
| P1617 | J-1342 | J-1300 | 189 | 8 | 140 | 70 | 0.45 | 0.02 | 0.12 | Zone 4 |
| P-91 | J-16 | J-71 | 556 | 10 | 110 | 109 | 0.45 | 0.08 | 0.14 | Zone 2 |
| P-204 | J-136 | J-135 | 929 | 10 | 140 | -109 | 0.45 | 0.08 | 0.09 | Zone 4 |
| 22-N-6 | J22-1092 | ELEMSCHO | 35 | 4 | 140 | 17 | 0.44 | 0.01 | 0.25 | Zone 4 |
| P-691 | J-394 | J-395 | 615 | 8 | 140 | -69 | 0.44 | 0.07 | 0.11 | Zone 4 |
| P-600 | J-355 | J-45 | 395 | 10 | 140 | 107 | 0.44 | 0.03 | 0.08 | Zone 2 |
| P-601 | J-44 | J-355 | 92 | 10 | 140 | 107 | 0.44 | 0.01 | 0.09 | Zone 2 |
| P-49 | J-37 | J-43 | 847 | 6 | 140 | 38 | 0.43 | 0.13 | 0.15 | Zone 1 |
| P-936 | J-247 | J-319 | 411 | 10 | 140 | 105 | 0.43 | 0.03 | 0.08 | Zone 4 |
| P-1058 | J-452 | J-663 | 209 | 6 | 140 | 38 | 0.43 | 0.03 | 0.15 | Zone 4 |
| P-262 | J-161 | J-166 | 304 | 8 | 140 | 66 | 0.42 | 0.03 | 0.11 | Zone 2 |
| P-346 | J-198 | J-199 | 233 | 8 | 140 | 66 | 0.42 | 0.02 | 0.1 | Zone 4 |
| P-1077 | J-680 | J-674 | 191 | 6 | 140 | -37 | 0.42 | 0.03 | 0.14 | Zone 4 |
| P-1107 | J-667 | FH-919 | 199 | 6 | 140 | -36 | 0.41 | 0.03 | 0.14 | Zone 4 |
| P-1106 | FH-920 | J-667 | 192 | 6 | 140 | -36 | 0.41 | 0.03 | 0.14 | Zone 4 |
| P-1105 | J-666 | FH-920 | 64 | 6 | 140 | -36 | 0.41 | 0.01 | 0.14 | Zone 4 |
| P-59 | J-48 | J-49 | 1409 | 8 | 140 | 64 | 0.41 | 0.14 | 0.1 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-467 | J-265 | J-267 | 405 | 10 | 140 | 100 | 0.41 | 0.03 | 0.07 | Zone 2 |
| P-495 | J-284 | J-283 | 282 | 8 | 140 | 64 | 0.41 | 0.03 | 0.1 | Zone 4 |
| P-551 | J-313 | J-311 | 246 | 8 | 140 | -64 | 0.41 | 0.02 | 0.1 | Zone 4 |
| P-1070 | J-670 | J-671 | 204 | 6 | 140 | 36 | 0.41 | 0.03 | 0.14 | Zone 4 |
| P1584 | J-1300 | J-1301 | 809 | 8 | 140 | 63 | 0.4 | 0.08 | 0.1 | Zone 2 |
| P-756 | J-302 | J-266 | 757 | 6 | 140 | 36 | 0.4 | 0.1 | 0.13 | Zone 2 |
| P-1543 | J-1234 | J-36 | 1537 | 6 | 150 | 35 | 0.4 | 0.18 | 0.12 | Zone 4 |
| P1635 | J-1314-1 | J-1315 | 329 | 6 | 140 | 35 | 0.4 | 0.04 | 0.13 | Zone 2 |
| P-85 | J-40 | J-64 | 738 | 10 | 140 | 97 | 0.4 | 0.05 | 0.07 | Zone 4 |
| P-450 | J-246 | J-256 | 266 | 10 | 140 | 97 | 0.4 | 0.02 | 0.07 | Zone 2 |
| P-553 | J-319 | J-318 | 155 | 10 | 140 | 97 | 0.4 | 0.01 | 0.07 | Zone 2 |
| P-701 | J-400 | J-401 | 262 | 6 | 140 | 35 | 0.39 | 0.03 | 0.13 | Zone 2 |
| P-1212 | J-756 | J-744 | 50 | 6 | 140 | -34 | 0.39 | 0.01 | 0.13 | Zone 4 |
| P-1196 | J-744 | J-PH19IRR2 | 300 | 6 | 140 | -34 | 0.39 | 0.04 | 0.13 | Zone 4 |
| P-546 | J-314 | J-298 | 255 | 10 | 140 | -95 | 0.39 | 0.02 | 0.07 | Zone 4 |
| P-715 | J-415 | J-404 | 198 | 6 | 140 | 34 | 0.39 | 0.02 | 0.12 | Zone 4 |
| P-80 | J-62 | J-40 | 414 | 10 | 140 | -93 | 0.38 | 0.03 | 0.07 | Zone 2 |
| P-1202 | J-749 | J-747 | 218 | 6 | 140 | -33 | 0.38 | 0.03 | 0.12 | Zone 2 |
| P-1204 | J-751 | J-749 | 296 | 6 | 140 | -33 | 0.38 | 0.03 | 0.12 | Zone 2 |
| P1633 | J-1315-1 | J-1314-1 | 5087 | 6 | 140 | 33 | 0.38 | 0.6 | 0.12 | Zone 2 |
| P-1167 | J-714 | J-728 | 224 | 6 | 140 | 33 | 0.37 | 0.03 | 0.12 | Zone 2 |
| P-150 | J-43 | J-102 | 570 | 6 | 140 | 33 | 0.37 | 0.07 | 0.12 | Zone 4 |
| P-688 | J-393 | J-394 | 364 | 8 | 140 | -59 | 0.37 | 0.03 | 0.08 | Zone 1 |
| P-752 | J-438 | J-439 | 244 | 6 | 140 | 33 | 0.37 | 0.03 | 0.12 | Zone 2 |
| J22-N-15 | J22-1085 | J22-1086 | 289 | 10 | 140 | -91 | 0.37 | 0.02 | 0.06 | Zone 2 |
| J22-N-15 | J22-1086 | J22-1087 | 366 | 10 | 140 | -91 | 0.37 | 0.02 | 0.06 | Zone 2 |
| P-1121 | J-671 | J-683 | 176 | 6 | 140 | -32 | 0.37 | 0.02 | 0.11 | Zone 4 |
| P-550 | J-316 | J-313 | 274 | 8 | 140 | -57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-537 | J-302 | J-307 | 398 | 6 | 140 | 32 | 0.36 | 0.04 | 0.11 | Zone 4 |
| P-452 | J-256 | J-257 | 285 | 10 | 140 | 89 | 0.36 | 0.02 | 0.06 | Zone 4 |
| P-1239 | J-761 | J-762 | 278 | 8 | 140 | 57 | 0.36 | 0.02 | 0.08 | Zone 4 |
| P-830 | J-348 | J-483 | 158 | 12 | 140 | -128 | 0.36 | 0.01 | 0.05 | Zone 1 |
| P1517 | J-1232 | J-1233 | 438 | 8 | 140 | 56 | 0.36 | 0.03 | 0.08 | Zone 4 |
| P-63 | J-52 | J-51 | 545 | 6 | 140 | -31 | 0.36 | 0.06 | 0.11 | Zone 4 |
| P-686 | J-390 | J-393 | 303 | 8 | 140 | -56 | 0.35 | 0.02 | 0.08 | Zone 2 |
| P-1041 | J-570 | J-649 | 189 | 10 | 140 | 86 | 0.35 | 0.01 | 0.06 | Zone 2 |
| P-1042 | J-571 | J-649 | 81 | 10 | 140 | -86 | 0.35 | 0 | 0.05 | Zone 2 |
| P-1056 | J-663 | J-661 | 243 | 6 | 140 | 31 | 0.35 | 0.02 | 0.1 | Zone 4 |
| P-720 | J-419 | J-297 | 219 | 10 | 140 | -86 | 0.35 | 0.01 | 0.06 | Zone 4 |
| P-780 | J-423 | J-449 | 474 | 12 | 140 | 121 | 0.34 | 0.02 | 0.04 | Zone 4 |
| P1588 | J-1305 | J-1304 | 229 | 6 | 150 | -30 | 0.34 | 0.02 | 0.09 | Zone 2 |
| P-169 | J-112 | J-113 | 344 | 8 | 140 | 53 | 0.34 | 0.02 | 0.07 | Zone 1 |
| P1554-1 | J-1260 | J-1272 | 24 | 8 | 140 | 53 | 0.34 | 0 | 0.06 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|------------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1553-1 | J-325 | J-1275 | 193 | 8 | 140 | 53 | 0.34 | 0.01 | 0.07 | Zone 2 |
| P1553-2 | J-1275 | J-1260 | 24 | 8 | 140 | 53 | 0.34 | 0 | 0.08 | Zone 4 |
| P-1352 | J-730 | J-806 | 250 | 10 | 140 | 81 | 0.33 | 0.01 | 0.05 | Zone 2 |
| P1649 | J-1338 | J-1336 | 5092 | 6 | 140 | 29 | 0.33 | 0.47 | 0.09 | Zone 4 |
| P-156 | J-104 | J-103 | 364 | 8 | 140 | -52 | 0.33 | 0.02 | 0.07 | Zone 4 |
| P-545 | J-297 | J-314 | 142 | 10 | 140 | -79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-132 | J-91 | J-81 | 179 | 8 | 140 | 51 | 0.32 | 0.01 | 0.06 | Zone 4 |
| P-1071 | J-674 | J-570 | 271 | 10 | 140 | 79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-453 | J-258 | J-233 | 236 | 10 | 140 | 79 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-261 | J-166 | J-160 | 304 | 8 | 140 | 50 | 0.32 | 0.02 | 0.06 | Zone 4 |
| P-185 | J-120 | J-124 | 232 | 10 | 140 | -78 | 0.32 | 0.01 | 0.05 | Zone 2 |
| P-186 | J-45 | J-124 | 396 | 10 | 140 | 78 | 0.32 | 0.02 | 0.05 | Zone 2 |
| P1639 | J-1314-1 | J-1336 | 214 | 6 | 140 | 28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P1596 | J-1312 | J-1315 | 276 | 6 | 140 | -28 | 0.32 | 0.02 | 0.09 | Zone 4 |
| P-118 | J-86 | J-85 | 384 | 8 | 140 | 50 | 0.32 | 0.02 | 0.06 | Zone 4 |
| P-1033 | J-642 | J-571 | 79 | 10 | 140 | -77 | 0.32 | 0 | 0.05 | Zone 4 |
| P-1032 | J-639 | J-642 | 697 | 10 | 140 | -77 | 0.32 | 0.03 | 0.05 | Zone 4 |
| P-1026 | J-613 | J-639 | 141 | 10 | 140 | -77 | 0.32 | 0.01 | 0.05 | Zone 4 |
| P-110 | J-78 | J-80 | 186 | 10 | 140 | 77 | 0.31 | 0.01 | 0.05 | Zone 4 |
| P-475 | J-113 | J-274 | 337 | 8 | 140 | 49 | 0.31 | 0.02 | 0.06 | Zone 4 |
| P-1237 | J-766 | J22-1072 | 172 | 8 | 140 | 49 | 0.31 | 0.01 | 0.06 | Zone 4 |
| P1643 | J-1329 | J-1328 | 5199 | 6 | 140 | 27 | 0.31 | 0.43 | 0.08 | Zone 2 |
| P-1088 | FH-928 | J-680 | 127 | 6 | 140 | -27 | 0.31 | 0.01 | 0.08 | Zone 4 |
| P-1089 | J-681 | FH-928 | 189 | 6 | 140 | -27 | 0.31 | 0.02 | 0.08 | Zone 4 |
| P-98 | J-74 | J-73 | 315 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 4 |
| P-95 | J-73 | J-72 | 405 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 4 |
| P1554-2 | J-1272 | J-1257 | 274 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 2 |
| P-1197 | J-PH19IRR2 | J-746 | 283 | 6 | 140 | -27 | 0.31 | 0.02 | 0.08 | Zone 4 |
| P-1203 | J-746 | J-751 | 55 | 6 | 140 | -27 | 0.31 | 0 | 0.08 | Zone 2 |
| P-190 | J-127 | J-126 | 887 | 8 | 140 | 48 | 0.31 | 0.05 | 0.06 | Zone 4 |
| P-572 | J-331 | J-427 | 331 | 8 | 140 | 48 | 0.31 | 0.02 | 0.06 | Zone 2 |
| P-108 | J-76 | J-79 | 789 | 10 | 140 | 74 | 0.3 | 0.03 | 0.04 | Zone 4 |
| P-1211 | J-755 | J-756 | 428 | 6 | 140 | -27 | 0.3 | 0.03 | 0.08 | Zone 4 |
| P-1072 | J-675 | J-674 | 186 | 10 | 140 | 74 | 0.3 | 0.01 | 0.04 | Zone 4 |
| P-210 | J-140 | J-141 | 864 | 10 | 140 | 73 | 0.3 | 0.04 | 0.04 | Zone 1 |
| P-1059 | J-665 | J-666 | 326 | 6 | 140 | -26 | 0.3 | 0.02 | 0.08 | Zone 4 |
| P-1065 | J-669 | J-665 | 183 | 6 | 140 | -26 | 0.3 | 0.01 | 0.08 | Zone 4 |
| P1595 | J-1311 | J-1312 | 143 | 6 | 140 | -26 | 0.3 | 0.01 | 0.08 | Zone 4 |
| P-560 | J-325 | J-324 | 374 | 6 | 140 | 26 | 0.29 | 0.03 | 0.07 | Zone 2 |
| P-742 | J-435 | J-229 | 145 | 8 | 140 | 46 | 0.29 | 0.01 | 0.05 | Zone 2 |
| P-363 | J-208 | J-215 | 304 | 8 | 140 | 45 | 0.29 | 0.02 | 0.05 | Zone 2 |
| P1516-2 | J-1233 | J-1322 | 476 | 8 | 140 | 45 | 0.29 | 0.02 | 0.05 | Zone 1 |
| P-755 | J-300 | J-294 | 625 | 6 | 140 | 25 | 0.28 | 0.04 | 0.07 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-66 | J-53 | J-52 | 328 | 6 | 140 | -25 | 0.28 | 0.02 | 0.07 | Zone 4 |
| P-121 | J-64 | J-87 | 649 | 10 | 140 | 69 | 0.28 | 0.02 | 0.04 | Zone 3 |
| P-757 | J-415 | J-316 | 478 | 8 | 140 | -44 | 0.28 | 0.02 | 0.05 | Zone 1 |
| P-723 | J-420 | J-419 | 247 | 10 | 140 | -69 | 0.28 | 0.01 | 0.04 | Zone 4 |
| P-750 | J-285 | J-437 | 68 | 8 | 140 | -44 | 0.28 | 0 | 0.05 | Zone 2 |
| P1651 | J-1336 | J-1327 | 441 | 8 | 140 | 43 | 0.28 | 0.02 | 0.05 | Zone 3 |
| P-347 | J-199 | J-200 | 241 | 8 | 140 | 43 | 0.27 | 0.01 | 0.05 | Zone 3 |
| P-1111 | FH-917 | FH-918 | 243 | 6 | 140 | -24 | 0.27 | 0.02 | 0.06 | Zone 3 |
| P-1109 | J-658 | FH-917 | 111 | 6 | 140 | -24 | 0.27 | 0.01 | 0.07 | Zone 3 |
| P-1110 | FH-918 | J-659 | 45 | 6 | 140 | -24 | 0.27 | 0 | 0.06 | Zone 3 |
| P-1357 | J-806 | J-810 | 267 | 10 | 140 | 65 | 0.27 | 0.01 | 0.03 | Zone 4 |
| P-705 | J-404 | J-405 | 285 | 6 | 140 | 23 | 0.27 | 0.02 | 0.06 | Zone 3 |
| P1589 | J-1306 | J-1305 | 130 | 6 | 140 | -23 | 0.26 | 0.01 | 0.06 | Zone 2 |
| P-461 | J-246 | J-265 | 195 | 10 | 140 | 64 | 0.26 | 0.01 | 0.04 | Zone 4 |
| P-1328 | J-799 | J-764 | 50 | 8 | 140 | 41 | 0.26 | 0 | 0.05 | Zone 4 |
| P-1327 | J-763 | J-799 | 187 | 8 | 140 | 41 | 0.26 | 0.01 | 0.04 | Zone 4 |
| P-127 | J-90 | J-85 | 317 | 10 | 140 | -63 | 0.26 | 0.01 | 0.03 | Zone 4 |
| J2-N-15 | J22-1084 | J22-1085 | 278 | 10 | 140 | -63 | 0.26 | 0.01 | 0.03 | Zone 2 |
| P-702 | J-401 | J-402 | 259 | 6 | 140 | 23 | 0.26 | 0.01 | 0.06 | Zone 4 |
| J22-146 | J22-1173 | J22-1087 | 31 | 8 | 140 | -40 | 0.26 | 0 | 0.03 | Zone 1 |
| J22-146 | J22-874 | J22-1173 | 16 | 8 | 140 | -40 | 0.26 | 0 | 0.06 | Zone 2 |
| P-454 | J-257 | J-258 | 198 | 10 | 140 | 63 | 0.26 | 0.01 | 0.03 | Zone 2 |
| P-1064 | J-486 | J-669 | 172 | 6 | 140 | 22 | 0.25 | 0.01 | 0.06 | Zone 4 |
| P-1243 | J-1071 | J-768 | 77 | 8 | 140 | 40 | 0.25 | 0 | 0.04 | Zone 1 |
| P-1208 | J-480 | J-753 | 345 | 6 | 140 | 22 | 0.25 | 0.02 | 0.06 | Zone 4 |
| P-1168 | J-715 | J-728 | 93 | 6 | 140 | -22 | 0.25 | 0 | 0.05 | Zone 4 |
| P-130 | J-93 | J-90 | 206 | 10 | 140 | -61 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-168 | J-112 | J-111 | 1253 | 8 | 140 | 39 | 0.25 | 0.05 | 0.04 | Zone 1 |
| P-102 | J-40 | J-76 | 341 | 10 | 140 | 61 | 0.25 | 0.01 | 0.03 | Zone 4 |
| P-1244 | J-762 | J-763 | 260 | 8 | 140 | 39 | 0.25 | 0.01 | 0.04 | Zone 2 |
| P-760 | J-323 | J-324 | 152 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 2 |
| P-748 | J-283 | J-282 | 757 | 6 | 140 | 22 | 0.25 | 0.04 | 0.05 | Zone 2 |
| P-1491 | J22-874 | J-23-1207 | 87 | 8 | 140 | 39 | 0.25 | 0 | 0.04 | Zone 2 |
| P-1103 | J-690 | FH-930 | 133 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 4 |
| P-1104 | FH-930 | J-688 | 71 | 6 | 140 | -22 | 0.25 | 0 | 0.05 | Zone 4 |
| P-1087 | J-689 | J-690 | 227 | 6 | 140 | -22 | 0.25 | 0.01 | 0.05 | Zone 4 |
| P-96 | J-74 | J-69 | 414 | 8 | 140 | 38 | 0.25 | 0.02 | 0.04 | Zone 4 |
| P-89 | J-69 | J-68 | 692 | 8 | 140 | 38 | 0.25 | 0.03 | 0.04 | Zone 4 |
| P-154 | J-103 | J-96 | 412 | 8 | 140 | -38 | 0.25 | 0.02 | 0.04 | Zone 4 |
| P-65 | J-53 | J-37 | 607 | 8 | 140 | 38 | 0.24 | 0.02 | 0.04 | Zone 1 |
| P-538 | J-307 | J-308 | 435 | 6 | 140 | 22 | 0.24 | 0.02 | 0.05 | Zone 4 |
| P-803 | J-453 | J-466 | 510 | 6 | 140 | 21 | 0.24 | 0.03 | 0.05 | Zone 4 |
| P-468 | J-267 | J-268 | 229 | 10 | 140 | 59 | 0.24 | 0.01 | 0.03 | Zone 2 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-109 | J-79 | J-77 | 865 | 8 | 140 | 37 | 0.24 | 0.03 | 0.04 | Zone 1 |
| P-79 | J-39 | J-62 | 344 | 10 | 140 | -58 | 0.24 | 0.01 | 0.03 | Zone 2 |
| P-568 | J-331 | J-330 | 516 | 8 | 140 | 37 | 0.24 | 0.02 | 0.04 | Zone 4 |
| P-1238 | J22-1072 | J-767 | 90 | 8 | 140 | 36 | 0.23 | 0 | 0.04 | Zone 4 |
| P-833 | J-455 | J-484 | 516 | 6 | 140 | 20 | 0.23 | 0.02 | 0.05 | Zone 4 |
| P-462 | J-266 | J-265 | 208 | 8 | 140 | 36 | 0.23 | 0.01 | 0.03 | Zone 4 |
| P-1451 | J22-902 | J-421 | 48 | 10 | 140 | -55 | 0.23 | 0 | 0.02 | Zone 4 |
| P1516-1 | J-1322 | J-1234 | 17 | 8 | 140 | 35 | 0.23 | 0 | 0.03 | Zone 4 |
| P-993 | J-456 | J-613 | 398 | 10 | 140 | -54 | 0.22 | 0.01 | 0.02 | Zone 4 |
| P-502 | J-288 | J-285 | 255 | 8 | 140 | -35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| 492(1) | J-23-1207 | J-23-1228 | 300 | 8 | 140 | 35 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-135 | J-95 | ESELEMSCH | 652 | 10 | 140 | -54 | 0.22 | 0.02 | 0.02 | Zone 4 |
| P1594 | J-1310 | J-1311 | 92 | 6 | 140 | -19 | 0.22 | 0 | 0.04 | Zone 4 |
| P-362 | J-215 | J-214 | 237 | 8 | 140 | 34 | 0.22 | 0.01 | 0.03 | Zone 4 |
| P-1209 | J-481 | J-755 | 329 | 6 | 140 | -19 | 0.22 | 0.01 | 0.04 | Zone 1 |
| P-786 | J-455 | J-456 | 189 | 12 | 140 | -76 | 0.22 | 0 | 0.02 | Zone 2 |
| P-306 | J-187 | J-139 | 355 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-429 | J-139 | J-248 | 390 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 1 |
| P-307 | J-140 | J-187 | 352 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-1259 | J-761 | J-775 | 165 | 8 | 140 | 33 | 0.21 | 0 | 0.03 | Zone 4 |
| P-189 | J-126 | J-125 | 506 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-122 | J-87 | J-78 | 186 | 10 | 140 | 52 | 0.21 | 0 | 0.02 | Zone 4 |
| P2-N-15 | J22-1083 | J22-1084 | 280 | 10 | 140 | -52 | 0.21 | 0.01 | 0.02 | Zone 1 |
| P-234 | J-154 | J-153 | 370 | 8 | 140 | 33 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-753 | J-439 | J-288 | 68 | 8 | 140 | 33 | 0.21 | 0 | 0.03 | Zone 4 |
| P-136 | J-96 | J-95 | 334 | 8 | 140 | -32 | 0.21 | 0.01 | 0.03 | Zone 4 |
| P-834 | J-454 | J-485 | 706 | 6 | 140 | 18 | 0.21 | 0.03 | 0.04 | Zone 2 |
| P-1251 | J-769 | J-715 | 259 | 6 | 140 | -18 | 0.2 | 0.01 | 0.04 | Zone 3 |
| P-119 | J-38 | J-86 | 270 | 10 | 140 | 50 | 0.2 | 0.01 | 0.02 | Zone 4 |
| P-697 | J-397 | J-398 | 372 | 8 | 140 | -32 | 0.2 | 0.01 | 0.03 | Zone 3 |
| P-120 | J-39 | J-84 | 876 | 8 | 140 | 32 | 0.2 | 0.02 | 0.03 | Zone 4 |
| P-214 | J-141 | J-145 | 339 | 10 | 140 | 49 | 0.2 | 0.01 | 0.02 | Zone 2 |
| P-791 | J-423 | J-460 | 169 | 10 | 140 | 49 | 0.2 | 0 | 0.02 | Zone 4 |
| P-779 | J-423 | J-421 | 691 | 10 | 140 | 49 | 0.2 | 0.01 | 0.02 | Zone 4 |
| P-194 | J-130 | J-128 | 482 | 8 | 140 | -31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-433 | J-137 | J-217 | 151 | 8 | 140 | -31 | 0.2 | 0 | 0.03 | Zone 4 |
| P-370 | J-146 | J-217 | 267 | 8 | 140 | 31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-1242 | J-767 | J-1071 | 187 | 8 | 140 | 31 | 0.2 | 0 | 0.02 | Zone 4 |
| P-1364 | J-810 | J-815 | 257 | 10 | 140 | 48 | 0.2 | 0 | 0.02 | Zone 4 |
| P-570 | J-332 | J-333 | 186 | 8 | 140 | 31 | 0.2 | 0 | 0.02 | Zone 4 |
| P1653 | J-1327 | J-1324 | 341 | 8 | 140 | 31 | 0.2 | 0.01 | 0.03 | Zone 4 |
| P-721 | J-418 | J-419 | 381 | 6 | 140 | -17 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-389 | J-233 | J-223 | 407 | 6 | 140 | 17 | 0.19 | 0.01 | 0.03 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1429-1 | J-853 | J22-1070 | 86 | 8 | 140 | -29 | 0.19 | 0 | 0.03 | Zone 4 |
| P-1428-1 | J22-1069 | J-853 | 149 | 8 | 140 | -29 | 0.19 | 0 | 0.02 | Zone 4 |
| P-206 | J-137 | J-136 | 1236 | 10 | 140 | 46 | 0.19 | 0.02 | 0.02 | Zone 4 |
| P-251 | J-160 | J-159 | 376 | 8 | 140 | 29 | 0.19 | 0.01 | 0.02 | Zone 1 |
| P-743 | J-233 | J-435 | 85 | 10 | 140 | 46 | 0.19 | 0 | 0.02 | Zone 4 |
| P-200 | J-134 | J-93 | 189 | 10 | 140 | -45 | 0.19 | 0 | 0.02 | Zone 3 |
| P-540 | J-300 | J-310 | 452 | 6 | 140 | 16 | 0.19 | 0.01 | 0.03 | Zone 4 |
| P-798 | J-462 | J-420 | 244 | 10 | 140 | -45 | 0.18 | 0 | 0.02 | Zone 4 |
| P-1492(1) | J-23-1228 | J-23-1223 | 348 | 8 | 140 | 29 | 0.18 | 0.01 | 0.02 | Zone 2 |
| P-1492(2) | J-23-1223 | J-23-1208 | 16 | 8 | 140 | 29 | 0.18 | 0 | 0.03 | Zone 2 |
| P-617 | J-346 | J-348 | 297 | 12 | 140 | -65 | 0.18 | 0 | 0.01 | Zone 2 |
| P-235 | J-154 | J-155 | 404 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 2 |
| P-813 | J-474 | J-452 | 196 | 6 | 140 | 16 | 0.18 | 0.01 | 0.03 | Zone 2 |
| P-1428-2 | J22-848 | J22-1069 | 191 | 8 | 140 | -28 | 0.18 | 0 | 0.02 | Zone 2 |
| P-393 | J-229 | J-227 | 238 | 8 | 140 | 28 | 0.18 | 0 | 0.02 | Zone 2 |
| P-94 | J-72 | J-66 | 894 | 8 | 140 | 28 | 0.18 | 0.02 | 0.02 | Zone 2 |
| P-547 | J-315 | J-314 | 480 | 6 | 140 | -15 | 0.17 | 0.01 | 0.03 | Zone 2 |
| P-143 | J-99 | J-92 | 148 | 8 | 140 | -27 | 0.17 | 0 | 0.02 | Zone 4 |
| P-134 | J-44 | ESELEMSCHE | 892 | 10 | 140 | 42 | 0.17 | 0.01 | 0.01 | Zone 4 |
| P-348 | J-200 | J-201 | 237 | 8 | 140 | 27 | 0.17 | 0 | 0.02 | Zone 4 |
| P-503 | J-208 | J-288 | 206 | 8 | 140 | -27 | 0.17 | 0 | 0.02 | Zone 4 |
| P-1122 | J-681 | J-689 | 116 | 6 | 140 | -15 | 0.17 | 0 | 0.03 | Zone 4 |
| P-1257 | J-774 | J-714 | 276 | 8 | 140 | -26 | 0.17 | 0.01 | 0.02 | Zone 4 |
| P-1256 | J-771 | J-774 | 109 | 8 | 140 | -26 | 0.17 | 0 | 0.02 | Zone 4 |
| P-953 | J-288 | J-586 | 197 | 10 | 140 | 41 | 0.17 | 0 | 0.01 | Zone 2 |
| P1590 | J-1307 | J-1306 | 65 | 6 | 140 | -15 | 0.17 | 0 | 0.03 | Zone 4 |
| P-1207 | J-753 | J-752 | 410 | 6 | 140 | 15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P-517 | J-296 | J-295 | 262 | 6 | 140 | -15 | 0.17 | 0.01 | 0.03 | Zone 4 |
| P1549-1 | J-1274 | J-1256 | 121 | 8 | 140 | 26 | 0.17 | 0 | 0.02 | Zone 4 |
| P1549-2 | J-1257 | J-1274 | 144 | 8 | 140 | 26 | 0.17 | 0 | 0.02 | Zone 4 |
| P-355 | J-198 | J-208 | 669 | 8 | 140 | 26 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-1260 | J-775 | J-766 | 237 | 8 | 140 | 26 | 0.16 | 0 | 0.02 | Zone 2 |
| P-81 | J-61 | J-62 | 433 | 8 | 140 | -26 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-246 | J-68 | J-157 | 352 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 1 |
| P-247 | J-157 | J-67 | 592 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-117 | J-85 | J-84 | 409 | 8 | 140 | -25 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-1362 | J-814 | J-769 | 371 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 2 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|--------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-171 | J-114 | J-115 | 477 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-573 | J-427 | J-327 | 350 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 3 |
| P-107 | J-77 | J-78 | 354 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P-821 | J-460 | J-478 | 492 | 6 | 140 | 14 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-476 | J-274 | J-114 | 337 | 8 | 140 | 25 | 0.16 | 0.01 | 0.02 | Zone 2 |
| P-1429 | J22-1070 | J-768 | 190 | 8 | 140 | -25 | 0.16 | 0 | 0.02 | Zone 2 |
| P-405 | J-214 | J-239 | 245 | 8 | 140 | 25 | 0.16 | 0 | 0.02 | Zone 4 |
| P-814 | J-475 | J-474 | 214 | 6 | 140 | 14 | 0.16 | 0.01 | 0.03 | Zone 4 |
| P-201 | J-92 | J-134 | 483 | 10 | 140 | -38 | 0.16 | 0.01 | 0.01 | Zone 4 |
| P1598 | J-1315-2 | J-1336 | 260 | 6 | 140 | -14 | 0.16 | 0.01 | 0.02 | Zone 4 |
| P1597 | J-1314 | J-1315-2 | 77 | 6 | 140 | -14 | 0.16 | 0 | 0.03 | Zone 4 |
| P1641 | J-1336 | J-1328 | 112 | 6 | 140 | -14 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1430 | J22-848 | J-854 | 52 | 8 | 140 | 24 | 0.15 | 0 | 0.02 | Zone 4 |
| P-512 | J-280 | J-282 | 243 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-485 | J-270 | J-278 | 481 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 2 |
| P-192 | J-128 | J-129 | 503 | 8 | 140 | 24 | 0.15 | 0.01 | 0.02 | Zone 1 |
| P-193 | J-129 | J-65 | 229 | 8 | 140 | 24 | 0.15 | 0 | 0.01 | Zone 4 |
| P-137 | J-45 | J-97 | 332 | 8 | 140 | 23 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-155 | J-97 | J-103 | 513 | 8 | 140 | 23 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-1494 | J-23-1209 | J-23-1210 | 48 | 8 | 140 | 23 | 0.15 | 0 | 0.02 | Zone 4 |
| P-1493 | J-23-1208 | J-23-1209 | 54 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1497 | J-23-1210 | J-766 | 137 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 2 |
| P-1069 | J-660 | J-670 | 91 | 6 | 140 | -13 | 0.15 | 0 | 0.02 | Zone 4 |
| P-184 | J-120 | J-123 | 940 | 10 | 140 | 36 | 0.15 | 0.01 | 0.01 | Zone 2 |
| P-543 | J-312 | J-298 | 499 | 6 | 140 | -13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-785 | J-454 | J-455 | 249 | 12 | 140 | -52 | 0.15 | 0 | 0.01 | Zone 4 |
| P-1131 | J-704 | J-613 | 480 | 8 | 140 | -23 | 0.15 | 0.01 | 0.01 | Zone 4 |
| P-431 | J-248 | J-138 | 76 | 8 | 140 | 23 | 0.15 | 0 | 0.01 | Zone 1 |
| P-219 | J-146 | J-138 | 387 | 8 | 140 | -23 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-706 | J-405 | J-406 | 300 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-817 | J-420 | J-477 | 430 | 6 | 140 | 13 | 0.15 | 0.01 | 0.02 | Zone 4 |
| P-694 | J-396 | J-397 | 281 | 8 | 140 | -23 | 0.14 | 0 | 0.01 | Zone 4 |
| P-167 | J-111 | J-110 | 964 | 8 | 140 | 23 | 0.14 | 0.01 | 0.01 | Zone 2 |
| P-165 | J-109 | J-104 | 278 | 8 | 140 | -22 | 0.14 | 0 | 0.01 | Zone 4 |
| P-484 | J-267 | J-278 | 397 | 8 | 140 | 22 | 0.14 | 0.01 | 0.01 | Zone 3 |
| P-1361 | J-770 | J-814 | 134 | 6 | 140 | -12 | 0.14 | 0 | 0.02 | Zone 2 |
| P1593 | J-1309 | J-1310 | 493 | 6 | 140 | -12 | 0.14 | 0.01 | 0.02 | Zone 2 |
| P-991 | J-485 | J-486 | 261 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 2 |
| P-1051 | J-656 | J-658 | 197 | 6 | 140 | -12 | 0.14 | 0 | 0.02 | Zone 4 |
| P-992 | J-484 | J-485 | 259 | 6 | 140 | 12 | 0.14 | 0 | 0.02 | Zone 2 |
| P1548 | J-1256 | J-1255 | 170 | 8 | 140 | 21 | 0.14 | 0 | 0.01 | Zone 2 |
| P-142 | J-98 | J-99 | 304 | 8 | 140 | -21 | 0.13 | 0 | 0.01 | Zone 4 |
| P-140 | J-96 | J-98 | 707 | 8 | 140 | -21 | 0.13 | 0.01 | 0.01 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1424 | J-847 | J-850 | 61 | 8 | 140 | 21 | 0.13 | 0 | 0.02 | Zone 4 |
| P-730 | J-416 | J-425 | 242 | 6 | 140 | 12 | 0.13 | 0 | 0.02 | Zone 1 |
| 22-145 | J22-1080 | J22-1082 | 221 | 10 | 140 | -32 | 0.13 | 0 | 0.01 | Zone 4 |
| P-703 | J-403 | J-402 | 274 | 6 | 140 | -11 | 0.13 | 0 | 0.02 | Zone 4 |
| P-487 | J-272 | J-279 | 343 | 6 | 140 | -11 | 0.13 | 0.01 | 0.02 | Zone 4 |
| P-187 | J-125 | J-80 | 165 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 1 |
| P-1379 | J-815 | J-820 | 47 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-1400 | J-819 | J-829 | 89 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-1380 | J-820 | J-819 | 131 | 10 | 140 | 31 | 0.13 | 0 | 0.01 | Zone 2 |
| P-724 | J-420 | J-417 | 394 | 6 | 140 | 11 | 0.13 | 0.01 | 0.01 | Zone 4 |
| P-569 | J-330 | J-332 | 245 | 8 | 140 | 20 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1178 | J-728 | J-733 | 220 | 6 | 140 | 11 | 0.12 | 0 | 0.01 | Zone 4 |
| P-216 | J-145 | J-144 | 352 | 10 | 140 | 30 | 0.12 | 0 | 0.01 | Zone 1 |
| P-717 | J-416 | J-417 | 277 | 6 | 140 | -11 | 0.12 | 0 | 0.02 | Zone 1 |
| 2-N-15 | J22-1089 | J22-1090 | 345 | 10 | 140 | -30 | 0.12 | 0 | 0.01 | Zone 4 |
| P-480 | J-267 | J-276 | 476 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-515 | J-294 | J-266 | 275 | 6 | 140 | 11 | 0.12 | 0 | 0.01 | Zone 4 |
| P-183 | J-123 | J-118 | 356 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 4 |
| P-1399 | J-255 | ALLEYCHU | 263 | 8 | 140 | 19 | 0.12 | 0 | 0.01 | Zone 2 |
| P-819 | J-461 | J-475 | 597 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-180 | J-120 | J-121 | 307 | 6 | 140 | 10 | 0.12 | 0 | 0.01 | Zone 4 |
| P-181 | J-121 | J-122 | 538 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 4 |
| P-1185 | J-736 | J-730 | 186 | 6 | 140 | -10 | 0.12 | 0 | 0.01 | Zone 2 |
| P-815 | J-476 | J-475 | 219 | 6 | 140 | 10 | 0.12 | 0 | 0.01 | Zone 1 |
| P-486 | J-268 | J-279 | 352 | 8 | 140 | 18 | 0.12 | 0 | 0.01 | Zone 2 |
| P-401 | J-229 | J-238 | 407 | 6 | 140 | 10 | 0.12 | 0.01 | 0.01 | Zone 2 |
| P-114 | J-82 | J-64 | 366 | 8 | 140 | -18 | 0.11 | 0 | 0.01 | Zone 4 |
| P-115 | J-83 | J-82 | 298 | 8 | 140 | -18 | 0.11 | 0 | 0.01 | Zone 4 |
| P-145 | J-45 | J-95 | 918 | 6 | 140 | -10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-215 | J-145 | J-142 | 518 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 2 |
| 22-N-15 | J22-1079 | J22-1080 | 381 | 10 | 140 | -28 | 0.11 | 0 | 0.01 | Zone 4 |
| P-835 | J-466 | J-486 | 389 | 6 | 140 | 10 | 0.11 | 0 | 0.01 | Zone 1 |
| P1655 | J-1324 | J-1325 | 5287 | 8 | 140 | 18 | 0.11 | 0.05 | 0.01 | Zone 4 |
| P-782 | J-449 | J-452 | 389 | 12 | 140 | 40 | 0.11 | 0 | 0.01 | Zone 4 |
| P-149 | J-101 | J-100 | 548 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 3 |
| 22-N-6 | J22-1090 | J22-1092 | 32 | 8 | 140 | 17 | 0.11 | 0 | 0.02 | Zone 4 |
| P-195 | J-131 | J-130 | 527 | 8 | 140 | -17 | 0.11 | 0 | 0.01 | Zone 1 |
| P-158 | J-106 | J-105 | 370 | 8 | 140 | -17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-157 | J-105 | J-104 | 617 | 8 | 140 | -17 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-1431 | J-854 | J-855 | 293 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-1358 | J-810 | J-811 | 82 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-758 | J-269 | J-321 | 454 | 6 | 140 | 10 | 0.11 | 0.01 | 0.01 | Zone 4 |
| P-469 | J-268 | J-269 | 289 | 10 | 140 | 26 | 0.11 | 0 | 0.01 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-128 | J-93 | J-80 | 1094 | 10 | 140 | 26 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-1421 | J-765 | J-847 | 63 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-1247 | J-764 | J-765 | 147 | 8 | 140 | 17 | 0.11 | 0 | 0.01 | Zone 4 |
| P-539 | J-309 | J-308 | 263 | 6 | 140 | -9 | 0.11 | 0 | 0.01 | Zone 4 |
| P-818 | J-462 | J-476 | 507 | 6 | 140 | 9 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-535 | J-304 | J-305 | 590 | 6 | 140 | 9 | 0.11 | 0.01 | 0.01 | Zone 2 |
| P-254 | J-159 | J-162 | 576 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 1 |
| P-126 | J-91 | J-90 | 757 | 8 | 140 | 16 | 0.1 | 0.01 | 0.01 | Zone 4 |
| P-101 | J-75 | J-66 | 388 | 10 | 140 | -25 | 0.1 | 0 | 0.01 | Zone 4 |
| P-708 | J-406 | J-408 | 225 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1353 | J-806 | J-807 | 71 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| J2-N-12 | J22-1085 | J22-1166 | 54 | 8 | 140 | 16 | 0.1 | 0 | 0 | Zone 4 |
| J2-N-12 | J22-1166 | J22-1168 | 125 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-793 | J-460 | J-459 | 516 | 6 | 140 | 9 | 0.1 | 0.01 | 0.01 | Zone 4 |
| P-394 | J-227 | J-225 | 240 | 8 | 140 | 16 | 0.1 | 0 | 0.01 | Zone 4 |
| P-718 | J-417 | J-418 | 243 | 6 | 140 | -9 | 0.1 | 0 | 0.01 | Zone 4 |
| P1563 | J-1257 | J-1279-IRR | 23 | 6 | 140 | 9 | 0.1 | 0 | 0.02 | Zone 4 |
| P-955 | J-425 | J-587 | 100 | 6 | 140 | 9 | 0.1 | 0 | 0.01 | Zone 4 |
| P-199 | J-133 | J-125 | 382 | 8 | 140 | -15 | 0.1 | 0 | 0.01 | Zone 2 |
| P-1401 | J-829 | J-830 | 287 | 10 | 140 | 24 | 0.1 | 0 | 0.01 | Zone 4 |
| P-954 | J-586 | J-264 | 190 | 10 | 140 | 24 | 0.1 | 0 | 0.01 | Zone 4 |
| P-1280 | J-764 | J-782 | 70 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-231 | J-153 | J-150 | 377 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-479 | J-274 | J-275 | 854 | 8 | 140 | 15 | 0.1 | 0.01 | 0.01 | Zone 4 |
| P-1277 | J-768 | J-781 | 211 | 8 | 140 | 15 | 0.1 | 0 | 0.01 | Zone 4 |
| P-217 | J-144 | J-137 | 669 | 10 | 140 | 23 | 0.09 | 0 | 0.01 | Zone 1 |
| P-1425 | J-850 | J-851 | 253 | 8 | 140 | 15 | 0.09 | 0 | 0.01 | Zone 4 |
| P-481 | J-276 | J-271 | 438 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P1551-2 | J-1255 | J-1266 | 104 | 8 | 140 | 15 | 0.09 | 0 | 0 | Zone 4 |
| P-799 | J-462 | J-426 | 629 | 6 | 140 | 8 | 0.09 | 0.01 | 0.01 | Zone 4 |
| P-820 | J-478 | J-474 | 222 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1483 | J-23-1197 | J-1198 | 113 | 8 | 140 | -14 | 0.09 | 0 | 0 | Zone 4 |
| P-482 | J-268 | J-277 | 372 | 8 | 140 | 14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-759 | J-269 | J-323 | 489 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1129 | LDG3-CCC | J-704 | 52 | 8 | 140 | -14 | 0.09 | 0 | 0.01 | Zone 4 |
| P-796 | J-461 | J-458 | 570 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-406 | J-239 | J-212 | 238 | 8 | 140 | 14 | 0.09 | 0 | 0 | Zone 2 |
| P1585 | J-1301 | J-1302 | 229 | 8 | 140 | 14 | 0.09 | 0 | 0 | Zone 2 |
| P-133 | ESELEMSC | J-81 | 154 | 10 | 140 | -22 | 0.09 | 0 | 0 | Zone 4 |
| P1659 | J-1326 | J-1307 | 425 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-1403 | J-770 | J-832 | 365 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-516 | J-295 | J-294 | 261 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 2 |
| P-542 | J-311 | J-309 | 178 | 6 | 140 | -8 | 0.09 | 0 | 0.01 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1114 | J-654 | FH-914 | 64 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1112 | J-661 | FH-915 | 52 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1113 | FH-915 | J-662 | 254 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-733 | J-428 | J-204 | 208 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1119 | FH-916 | J-657 | 258 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-390 | J-233 | J-231 | 335 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-735 | J-429 | J-205 | 208 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-1118 | J-656 | FH-916 | 61 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-383 | J-225 | J-226 | 331 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-737 | J-430 | J-206 | 198 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-385 | J-227 | J-228 | 355 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 4 |
| P-387 | J-229 | J-230 | 337 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 1 |
| P-1115 | FH-914 | J-655 | 253 | 6 | 140 | 8 | 0.09 | 0 | 0.01 | Zone 1 |
| P-188 | J-65 | J-125 | 379 | 8 | 140 | 13 | 0.08 | 0 | 0.01 | Zone 4 |
| P-179 | J-114 | J-120 | 335 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 2 |
| P-232 | J-153 | J-152 | 566 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-172 | J-115 | J-116 | 806 | 8 | 140 | 13 | 0.08 | 0 | 0.01 | Zone 2 |
| P-164 | J-108 | J-109 | 885 | 8 | 140 | -13 | 0.08 | 0 | 0 | Zone 4 |
| P-747 | J-281 | J-280 | 562 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 1 |
| 788(1) | J-456 | J-1278 | 195 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 1 |
| J22-N-12 | J22-1168 | J22-1169 | 299 | 8 | 140 | 13 | 0.08 | 0 | 0 | Zone 4 |
| J22-145 | J22-898 | J22-1072 | 44 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 4 |
| J22-N-13 | J22-1172 | J22-898 | 290 | 8 | 140 | -13 | 0.08 | 0 | 0.01 | Zone 4 |
| P-775 | J-446 | J-448 | 544 | 8 | 140 | 13 | 0.08 | 0 | 0 | Zone 4 |
| P-202 | J-134 | J-133 | 716 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-1205 | J-752 | J-PH19IRR2 | 55 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 4 |
| P-1053 | J-659 | J-660 | 336 | 6 | 140 | -7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-772 | J-327 | J-446 | 354 | 8 | 140 | 12 | 0.08 | 0 | 0.01 | Zone 2 |
| 1551-1 | J-1266 | J-1278 | 26 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 3 |
| P-1405 | J-833 | J-834 | 198 | 6 | 140 | 7 | 0.08 | 0 | 0 | Zone 3 |
| P-1482 | J-23-1196 | J-23-1197 | 116 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 2 |
| P-1117 | FH-913 | J-664 | 190 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 2 |
| -1487(2) | J23-IRR | J-23-1203 | 143 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 1 |
| -1487(1) | J22-1085 | J23-IRR | 39 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 1 |
| P-1116 | J-663 | FH-913 | 59 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-816 | J-477 | J-476 | 215 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-403 | J-238 | J-221 | 231 | 8 | 140 | 12 | 0.08 | 0 | 0 | Zone 4 |
| P-1254 | J-773 | J-771 | 320 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| P-1253 | J-761 | J-773 | 65 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| P-236 | J-155 | J-152 | 410 | 6 | 140 | 7 | 0.08 | 0 | 0.01 | Zone 4 |
| P-726 | J-421 | J-415 | 1019 | 8 | 140 | -12 | 0.08 | 0 | 0 | Zone 4 |
| J2-N-15- | J-1179 | J22-1079 | 248 | 10 | 140 | -18 | 0.07 | 0 | 0 | Zone 4 |
| P-349 | J-201 | J-202 | 225 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1045 | J-646 | J-652 | 569 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 1 |
| P-973 | J-597 | J-603 | 572 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 1 |
| P-1046 | J-647 | J-653 | 566 | 8 | 140 | 12 | 0.07 | 0 | 0 | Zone 4 |
| P-213 | J-143 | J-144 | 693 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-103 | J-76 | J-75 | 329 | 10 | 140 | -18 | 0.07 | 0 | 0 | Zone 4 |
| P-520 | J-297 | J-296 | 403 | 6 | 140 | -6 | 0.07 | 0 | 0 | Zone 4 |
| J2-N-11 | J22-1084 | J22-1164 | 30 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 4 |
| P-809 | J-453 | J-471 | 432 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-555 | J-269 | J-320 | 146 | 10 | 140 | 17 | 0.07 | 0 | 0 | Zone 1 |
| P-574 | J-427 | J-332 | 522 | 8 | 140 | 11 | 0.07 | 0 | 0 | Zone 1 |
| P-741 | J-195 | J-434 | 300 | 6 | 140 | 6 | 0.07 | 0 | 0 | Zone 1 |
| P-811 | J-472 | J-272 | 97 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1263 | J-762 | J-776 | 164 | 8 | 140 | 11 | 0.07 | 0 | 0.01 | Zone 4 |
| P-87 | J-66 | J-67 | 461 | 8 | 140 | -11 | 0.07 | 0 | 0 | Zone 4 |
| P-935 | J-589 | J-590 | 507 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 3 |
| P-931 | J-589 | J-588 | 540 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-585 | J-160 | J-343 | 544 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-144 | J-95 | J-99 | 722 | 6 | 140 | -6 | 0.07 | 0 | 0 | Zone 4 |
| P-430 | J-141 | J-249 | 861 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-460 | J-264 | J-258 | 354 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-1432 | J-855 | J-856 | 242 | 8 | 140 | 10 | 0.07 | 0 | 0 | Zone 4 |
| P-365 | J-199 | J-215 | 680 | 6 | 140 | 6 | 0.07 | 0 | 0.01 | Zone 1 |
| P-541 | J-309 | J-310 | 372 | 6 | 140 | -6 | 0.07 | 0 | 0.01 | Zone 4 |
| P-1418 | J-845 | J-834 | 162 | 8 | 140 | -10 | 0.07 | 0 | 0 | Zone 4 |
| P-1450 | J22-901 | J-830 | 160 | 10 | 140 | -16 | 0.07 | 0 | 0 | Zone 4 |
| J2-1458 | J22-901 | J-1184 | 44 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| J-1458(2) | J-1184 | J-1199 | 21 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 4 |
| P-794 | J-460 | J-461 | 258 | 10 | 140 | 16 | 0.07 | 0 | 0 | Zone 1 |
| P-1422 | J-847 | J22-848 | 226 | 8 | 140 | -10 | 0.06 | 0 | 0 | Zone 4 |
| P-784 | J-453 | J-454 | 253 | 12 | 140 | -22 | 0.06 | 0 | 0 | Zone 4 |
| P-745 | J-257 | J-436 | 218 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1283 | J-782 | J-783 | 381 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P-1484 | J-23-1186 | J-1199 | 65 | 8 | 140 | -10 | 0.06 | 0 | 0.01 | Zone 1 |
| P-1472 | J-23-1186 | J-23-1187 | 75 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 4 |
| P1592 | J-1308 | J-1309 | 336 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 1 |
| P-773 | J-333 | J-446 | 387 | 8 | 140 | 10 | 0.06 | 0 | 0 | Zone 1 |
| N-15-2 | J-1183 | J-1179 | 254 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| -15-2-1 | J-1200 | J-1183 | 139 | 10 | 140 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-14 | J-13 | J-14 | 1017 | 10 | 110 | 15 | 0.06 | 0 | 0 | Zone 4 |
| P-595 | J-350 | J-14 | 534 | 10 | 110 | -15 | 0.06 | 0 | 0 | Zone 4 |
| P-1132 | J-350 | J-706 | 78 | 10 | 140 | 15 | 0.06 | 0 | 0.01 | Zone 4 |
| P-713 | J-401 | J-413 | 304 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-712 | J-402 | J-412 | 288 | 6 | 140 | 5 | 0.06 | 0 | 0.01 | Zone 1 |

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Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-483 | J-277 | J-273 | 342 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 4 |
| P-710 | J-404 | J-410 | 271 | 6 | 140 | 5 | 0.06 | 0 | 0.01 | Zone 4 |
| P-711 | J-403 | J-411 | 277 | 6 | 140 | 5 | 0.06 | 0 | 0.01 | Zone 1 |
| P-414 | J-223 | J-238 | 233 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-565 | J-330 | J-329 | 218 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-774 | J-333 | J-447 | 319 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-581 | J-341 | J-336 | 180 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| P1599 | J-1304 | J-1312 | 531 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 2 |
| P-1368 | J-818 | J-770 | 379 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 2 |
| P-1127 | FH-931 | J-705 | 187 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1130 | J-705 | BLDG3-CCC | 79 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-1128 | 4-VILLAGE | FH-931 | 250 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-378 | J-221 | J-220 | 249 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-1481 | J-23-1195 | J-23-1196 | 110 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 2 |
| J2-N-12 | J22-1169 | J22-896 | 119 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| J22-145 | J22-896 | J-1071 | 55 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| J2-N-11 | J22-1164 | J22-1165 | 138 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 2 |
| P-78 | J-60 | J-61 | 1317 | 8 | 140 | -9 | 0.06 | 0 | 0 | Zone 4 |
| P-812 | J-321 | J-473 | 84 | 6 | 140 | 5 | 0.06 | 0 | 0.01 | Zone 2 |
| P1657 | J-1325 | J-1326 | 349 | 6 | 140 | 5 | 0.06 | 0 | 0 | Zone 2 |
| P-808 | J-470 | J-270 | 102 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-810 | J-471 | J-470 | 449 | 6 | 140 | -5 | 0.06 | 0 | 0 | Zone 4 |
| P-797 | J-461 | J-462 | 242 | 10 | 140 | -14 | 0.06 | 0 | 0 | Zone 4 |
| P-1426 | J-851 | J-852 | 214 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-994 | J-571 | MIDDLESCH | 221 | 8 | 140 | 9 | 0.06 | 0 | 0 | Zone 4 |
| P-177 | J-118 | J-119 | 352 | 8 | 140 | 9 | 0.05 | 0 | 0 | Zone 4 |
| P-548 | J-316 | J-315 | 479 | 6 | 140 | -5 | 0.05 | 0 | 0 | Zone 4 |
| P-384 | J-227 | J-221 | 420 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-1473 | J-23-1187 | J-23-1188 | 47 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-986 | J-612 | J-611 | 561 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1365 | J-815 | J-816 | 84 | 8 | 140 | 8 | 0.05 | 0 | 0.01 | Zone 4 |
| P-228 | J-150 | J-151 | 709 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-783 | J-452 | J-453 | 256 | 12 | 140 | 18 | 0.05 | 0 | 0 | Zone 1 |
| P-754 | J-438 | J-440 | 108 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-709 | J-405 | J-409 | 256 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-455 | J-246 | J-259 | 165 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 4 |
| P-456 | J-256 | J-260 | 180 | 6 | 140 | 5 | 0.05 | 0 | 0 | Zone 2 |
| P-432 | J-249 | J-146 | 71 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1413 | J-830 | J-841 | 54 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1414 | J-841 | J-842 | 266 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1354 | J-807 | J-808 | 247 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-1355 | J-808 | J-809 | 272 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-734 | J-200 | J-429 | 299 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-736 | J-201 | J-430 | 305 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-732 | J-199 | J-428 | 306 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 4 |
| P-350 | J-203 | J-198 | 510 | 8 | 140 | -8 | 0.05 | 0 | 0 | Zone 4 |
| P-354 | J-202 | J-207 | 506 | 8 | 140 | 8 | 0.05 | 0 | 0 | Zone 1 |
| P-1278 | J-781 | J-763 | 187 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 2 |
| P-1407 | J-829 | J-836 | 75 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 2 |
| P-1359 | J-811 | J-812 | 267 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 1 |
| P-1360 | J-812 | J-813 | 241 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-44 | J-38 | J-39 | 1015 | 10 | 140 | -11 | 0.05 | 0 | 0 | Zone 4 |
| P-320 | J-154 | J-36 | 265 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-1265 | J-762 | J-777 | 60 | 8 | 140 | 7 | 0.05 | 0 | 0.01 | Zone 4 |
| P-1268 | J-777 | J-778 | 331 | 8 | 140 | 7 | 0.05 | 0 | 0 | Zone 4 |
| P-832 | J-455 | J-473 | 475 | 6 | 140 | 4 | 0.05 | 0 | 0 | Zone 4 |
| P-197 | J-131 | J-132 | 353 | 6 | 140 | -4 | 0.04 | 0 | 0 | Zone 4 |
| P-198 | J-132 | J-133 | 362 | 6 | 140 | -4 | 0.04 | 0 | 0 | Zone 4 |
| P-1412 | J-840 | J-832 | 266 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 4 |
| P-580 | J-166 | J-340 | 483 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P1586 | J-1302 | J-1303 | 178 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1480 | J-23-1194 | J-23-1195 | 174 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 4 |
| P-116 | J-84 | J-83 | 377 | 8 | 140 | -7 | 0.04 | 0 | 0 | Zone 4 |
| P-125 | J-90 | J-89 | 406 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 3 |
| P-124 | J-89 | J-88 | 309 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-1485 | J-1200 | J-23-1201 | 115 | 8 | 140 | 7 | 0.04 | 0 | 0 | Zone 4 |
| P-532 | J-266 | J-303 | 100 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-457 | J-256 | J-261 | 111 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-707 | J-406 | J-407 | 195 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-738 | J-197 | J-431 | 104 | 6 | 140 | 4 | 0.04 | 0 | 0 | Zone 4 |
| P-129 | J-81 | J-93 | 767 | 10 | 140 | 10 | 0.04 | 0 | 0 | Zone 4 |
| P-123 | J-88 | J-87 | 424 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1404 | J-832 | J-833 | 308 | 6 | 140 | 3 | 0.04 | 0 | 0 | Zone 4 |
| P-395 | J-225 | J-218 | 238 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-13 | J22-1171 | J22-1172 | 312 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 1 |
| P-1434 | J-847 | J-857 | 66 | 8 | 140 | 6 | 0.04 | 0 | 0.01 | Zone 4 |
| P-1435 | J-857 | J-858 | 130 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-11 | J22-1165 | J22-892 | 212 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-687 | J-393 | J-391 | 773 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P-1474 | J-23-1188 | J-23-1189 | 489 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 2 |
| P-1271 | J-763 | J-779 | 61 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-1274 | J-779 | J-780 | 128 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P-77 | J-38 | J-60 | 354 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 4 |
| P2-N-10 | J22-1160 | J22-1082 | 39 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 2 |
| P2-N-10 | J22-887 | J22-1160 | 157 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |
| P22-145 | J22-848 | J22-887 | 205 | 8 | 140 | -6 | 0.04 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1039 | J-647 | J-648 | 339 | 8 | 140 | 6 | 0.04 | 0 | 0 | Zone 2 |
| P-1462 | J-835 | J-1179 | 105 | 6 | 150 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-1406 | J-834 | J-835 | 166 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 4 |
| P-787 | J-320 | J-456 | 682 | 10 | 140 | 9 | 0.04 | 0 | 0 | Zone 4 |
| P-404 | J-201 | J-239 | 683 | 6 | 140 | -3 | 0.04 | 0 | 0 | Zone 2 |
| P-739 | J-196 | J-432 | 111 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P-740 | J-195 | J-433 | 141 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 1 |
| 22-N-1 | J22-1088 | J22-1174 | 32 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 3 |
| P-396 | J-185 | J-234 | 303 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-1 | J22-1174 | J22-880 | 16 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| -15-2-1 | J22-1078 | J-1200 | 119 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| -N-15-1 | J-1198 | J22-1078 | 177 | 10 | 140 | -8 | 0.03 | 0 | 0 | Zone 4 |
| P-729 | J-421 | J-424 | 690 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-359 | J-202 | J-212 | 668 | 8 | 140 | -5 | 0.03 | 0 | 0 | Zone 4 |
| P-182 | J-123 | J-122 | 586 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 4 |
| P1520 | J-1232 | J-1236 | 202 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1083 | J22-1161 | 29 | 8 | 140 | 5 | 0.03 | 0 | 0.02 | Zone 4 |
| P-789 | J-458 | J-426 | 252 | 6 | 140 | 3 | 0.03 | 0 | 0 | Zone 1 |
| 22-N-5 | J22-1079 | J22-1158 | 35 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-N-3 | J22-1080 | J22-1159 | 33 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-1489 | J-23-1203 | J-23-1205 | 191 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P1552 | J-1257 | J-1259 | 149 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-1284 | J-783 | J-770 | 271 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| 22-145 | J22-892 | J22-1070 | 71 | 8 | 140 | 5 | 0.03 | 0 | 0 | Zone 4 |
| P-731 | J-426 | J-416 | 255 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-544 | J-313 | J-312 | 499 | 6 | 140 | -2 | 0.03 | 0 | 0 | Zone 4 |
| P-229 | J-152 | J-151 | 477 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 4 |
| P-1269 | J-778 | J-715 | 227 | 8 | 140 | -4 | 0.03 | 0 | 0 | Zone 4 |
| P-831 | J-454 | J-472 | 691 | 6 | 140 | 2 | 0.03 | 0 | 0 | Zone 1 |
| P-366 | J-200 | J-214 | 676 | 6 | 140 | -2 | 0.03 | 0 | 0 | Zone 2 |
| -1458(2 | J-1199 | J22-899 | 203 | 10 | 140 | 6 | 0.03 | 0 | 0 | Zone 2 |
| -N-15-1 | J22-899 | J-1198 | 100 | 10 | 140 | 6 | 0.03 | 0 | 0 | Zone 2 |
| P-1419 | J-843 | J-846 | 53 | 8 | 150 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1420 | J-846 | J-844 | 143 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 2 |
| P-1488 | J-23-1203 | J-23-1204 | 288 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-1486 | J-23-1201 | J-23-1202 | 148 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-790 | J-459 | J-458 | 254 | 6 | 140 | 2 | 0.02 | 0 | 0 | Zone 4 |
| P-1475 | J-23-1189 | J-23-1190 | 5144 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-377 | J-220 | J-219 | 290 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-382 | J-220 | J-225 | 416 | 6 | 140 | -2 | 0.02 | 0 | 0 | Zone 4 |
| P-1433 | J-856 | J-833 | 214 | 8 | 140 | 4 | 0.02 | 0 | 0 | Zone 4 |
| P-376 | J-219 | J-218 | 339 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1275 | J-780 | J-769 | 294 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|-----------|-----------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1479 | J-23-1193 | J-23-1194 | 5137 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1262 | J-776 | J-767 | 240 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-12-N-13 | J22-1170 | J22-1171 | 147 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 4 |
| P-1498 | J22-880 | J-23-1212 | 109 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-443 | J-218 | J-254 | 307 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-1427 | J-852 | J-832 | 195 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P1590-2 | J-1306 | J-1308 | 179 | 6 | 140 | 2 | 0.02 | 0 | 0 | Zone 4 |
| P-1417 | J-843 | J-845 | 411 | 8 | 140 | -3 | 0.02 | 0 | 0 | Zone 2 |
| P-716 | J-416 | J-415 | 202 | 6 | 140 | 1 | 0.02 | 0 | 0 | Zone 4 |
| P-196 | J-131 | J-92 | 421 | 8 | 140 | 3 | 0.02 | 0 | 0 | Zone 4 |
| P-225 | J9RENOTR | J-54 | 375 | 12 | 110 | -5 | 0.02 | 0 | 0 | Zone 4 |
| P22-N-2 | J22-1161 | J22-1163 | 138 | 8 | 140 | 2 | 0.02 | 0 | 0 | Zone 3 |
| P-407 | J-212 | J-236 | 362 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 2 |
| P-444 | J-254 | J-236 | 65 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 2 |
| P1502(1) | J-23-1219 | J-23-1217 | 27 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P22-N-5 | J22-1158 | J22-884 | 106 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P22-N-3 | J22-1159 | J22-886 | 117 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1502(2) | J-23-1217 | J-23-1216 | 14 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1490 | J-23-1205 | J-23-1206 | 56 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1478 | J-23-1192 | J-23-1193 | 157 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1476 | J-23-1190 | J-23-1191 | 147 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1477 | J-23-1191 | J-23-1192 | 52 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-478 | J-275 | J-114 | 798 | 8 | 140 | 2 | 0.01 | 0 | 0 | Zone 4 |
| P-1382 | J-813 | J-823 | 191 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-1383 | J-823 | J-814 | 280 | 8 | 140 | -2 | 0.01 | 0 | 0 | Zone 4 |
| P-605(2) | J-1248 | J-108 | 272 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-605(1) | J-119 | J-1248 | 175 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P22-145 | J22-890 | J22-1069 | 66 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-162 | J-108 | J-106 | 343 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-704 | J-404 | J-403 | 265 | 6 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-1415 | J-842 | J-843 | 118 | 8 | 140 | 1 | 0.01 | 0 | 0 | Zone 4 |
| P-1367 | J-817 | J-818 | 216 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 2 |
| P-1366 | J-816 | J-817 | 278 | 8 | 140 | -1 | 0.01 | 0 | 0 | Zone 4 |
| P-176 | J-110 | J-119 | 701 | 8 | 140 | -1 | 0 | 0 | 0 | Zone 2 |
| P-1356 | J-809 | J-769 | 698 | 8 | 140 | -1 | 0 | 0 | 0 | Zone 2 |
| P788(1) | J-1278 | J4-VILLAGE | 78 | 8 | 140 | -1 | 0 | 0 | 0 | Zone 4 |
| P-1410 | J-836 | J-839 | 254 | 8 | 140 | 1 | 0 | 0 | 0 | Zone 1 |
| P-212 | J-142 | J-143 | 380 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1411 | J-839 | J-840 | 268 | 8 | 140 | 1 | 0 | 0 | 0 | Zone 4 |
| P-1179 | J-733 | J-731 | 232 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1183 | J-735 | J-729 | 55 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1182 | J-734 | J-735 | 225 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1180 | J-731 | J-734 | 85 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

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| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|-----------|-----------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| P-1184 | J-729 | J-736 | 225 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-174 | J-117 | J-118 | 570 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-173 | J-116 | J-117 | 528 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-N-2 | J22-1163 | J22-890 | 141 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1044 | J-642 | J-651 | 144 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 3 |
| P-1043 | J-649 | J-650 | 163 | 4 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-1470 | PH22-FH19 | J22-902 | 46 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1177-H | J-731 | H-4-PH18 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1176-H | J-729 | H-3-PH18 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P1600 | J-1301 | J-1316 | 126 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1508 | J-23-1189 | J-23-1225 | 50 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1436-H | J-836 | H-68-PH19 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1437-H | J-839 | H-69-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1625 | J-1342 | J-1343 | 170 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1627 | J-1340 | J-1341 | 171 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1377-H | J-818 | H-9-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1376-H | J-817 | H-8-PH20 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1375-H | J-816 | H-7-PH20 | 38 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| -1374-H | J-813 | H-6-PH20 | 33 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1373-H | J-812 | H-5-PH20 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| -1372-H | J-811 | H-4-PH20 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1371-H | J-809 | H-3-PH20 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1370-H | J-808 | H-2-PH20 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1369-H | J-807 | H-1-PH20 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1438-H | J-840 | H-70-PH19 | 26 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1439-H | J-841 | H-67-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1511 | J-23-1225 | AV-1 | 35 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1512 | J-23-1217 | AV-2 | 26 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1440-H | J-842 | H-66-PH19 | 23 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1351-H | H-21-PH19 | J-805 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1193-H | J-743 | H-5-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1665 | J-1316 | LLAGE_PA | 38 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P1667 | LLAGE_PA | J-319 | 915 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-1-H | J22-1168 | PH22-FH11 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1441-H | J-846 | H-65-PH19 | 36 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-11-H | J22-1173 | PH22-FH20 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-12-H | J22-1171 | PH22-FH14 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-13-H | J22-1172 | PH22-FH15 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-14-H | J22-1174 | PH22-FH18 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1513 | J-23-1223 | AV-3 | 54 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1443-H | J-857 | H-63-PH19 | 31 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1529 | J-1245 | SDRIVEBPS | 72 | 12 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1175-H | J-732 | H-2-PH18 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |

GBWC-CSD Preferred PHD (Tank 2 Off)
Distribution System Pipe Report

| ID | From Node | To Node | Length (ft) | Diameter (in) | Roughness | Flow (gpm) | Velocity (ft/s) | Headloss (ft) | HL/1000 (ft/k-ft) | Zone |
|---------|------------|------------|-------------|---------------|-----------|------------|-----------------|---------------|-------------------|--------|
| -1285-H | H-20-PH17 | J-783 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1530 | DRIVEBPS | J-344 | 68 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1282-H | H-19-PH17 | J-782 | 37 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1469 | PH22-FH1 | J-1184 | 37 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1279-H | H-16-PH17 | J-781 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1444-H | J-850 | H-62-PH19 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1276-H | H-18-PH17 | J-780 | 19 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-15-H | J22-1175 | PH22-FH16 | 13 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-20-H | J22-1161 | PH22-FH6 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-23-H | J22-1164 | PH22-FH8 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-6-H | J22-1158 | PH22-FH3 | 11 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-7-H | J22-1159 | PH22-FH4 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-8-H | J22-1163 | PH22-FH7 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| 22-9-H | J22-1165 | PH22-FH9 | 12 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-92 | J-71 | J-17 | 238 | 10 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1445-H | J-854 | H-57-PH19 | 32 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| 1551-1 | J-1278 | J-1258 | 28 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1446-H | J-851 | H-61-PH19 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-1134 | J-706 | FH-801 | 68 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-326 | J-122 | WELL2 | 172 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-330 | RV-3CLOSE | J-42 | 277 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 2 |
| -1273-H | H-17-PH17 | J-779 | 34 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-822 | J-478 | J-479 | 81 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1270-H | H-15-PH17 | J-778 | 28 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 1 |
| P-399 | J-237 | J-235 | 159 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| 22-N-13 | J22-1147 | J22-1170 | 53 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 2 |
| P-408 | J-236 | RV-5(PUFFI | 68 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-411 | RV-5(PUFFI | J-240 | 64 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-412 | J-240 | J-131 | 563 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-445 | J-240 | J-254 | 198 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1447-H | J-852 | H-60-PH19 | 40 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1267-H | H-14-PH17 | J-777 | 39 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-564 | J-329 | J-328 | 414 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1264-H | H-13-PH17 | J-776 | 27 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-571 | J-329 | J-334 | 181 | 8 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1261-H | H-12-PH17 | J-775 | 22 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1258-H | H-11-PH17 | J-774 | 30 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-596 | J-350 | RV-3CLOSE | 195 | 10 | 110 | 0 | 0 | 0 | 0 | Zone 4 |
| -1255-H | H-10-PH17 | J-773 | 18 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1448-H | J-855 | H-58-PH19 | 29 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| P-1468 | PH22-FH2 | J-1183 | 30 | 8 | 150 | 0 | 0 | 0 | 0 | Zone 4 |
| -1219-H | H-1-PH19 | J-757 | 24 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 4 |
| -1449-H | J-856 | H-59-PH19 | 35 | 6 | 140 | 0 | 0 | 0 | 0 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-242 | 0 | 5,253 | 5,283 | 12.77 | Zone 4 |
| J-243 | 0 | 5,266 | 5,323 | 24.5 | Zone 3 |
| J-33 | 0 | 5,085 | 5,168 | 35.87 | Zone 2 |
| J-127 | 7.97 | 5,087 | 5,171 | 36.26 | Zone 2 |
| J-79 | 21.26 | 5,083 | 5,168 | 36.81 | Zone 2 |
| J-87 | 6.38 | 5,083 | 5,168 | 36.98 | Zone 2 |
| J-77 | 6.91 | 5,082 | 5,168 | 37.21 | Zone 2 |
| J-78 | 0 | 5,081 | 5,168 | 37.7 | Zone 2 |
| J-75 | 4.25 | 5,081 | 5,168 | 37.93 | Zone 2 |
| J-129 | 0 | 5,081 | 5,169 | 38.16 | Zone 2 |
| J-128 | 9.03 | 5,082 | 5,170 | 38.16 | Zone 2 |
| J-88 | 7.44 | 5,079 | 5,168 | 38.51 | Zone 2 |
| J-80 | 0 | 5,079 | 5,168 | 38.54 | Zone 2 |
| J-126 | 8.5 | 5,080 | 5,169 | 38.63 | Zone 2 |
| J-65 | 5.85 | 5,080 | 5,169 | 38.65 | Zone 2 |
| J-64 | 5.85 | 5,078 | 5,168 | 38.81 | Zone 2 |
| J-125 | 0 | 5,078 | 5,168 | 38.97 | Zone 2 |
| J-83 | 6.38 | 5,077 | 5,168 | 39.18 | Zone 2 |
| J-1329 | 7.84 | 5,083 | 5,175 | 39.57 | Zone 2 |
| ESELEMSCH | 2,254.19 | 5,073 | 5,164 | 39.71 | Zone 2 |
| J-82 | 0 | 5,076 | 5,168 | 39.84 | Zone 2 |
| J-130 | 7.97 | 5,077 | 5,169 | 39.9 | Zone 2 |
| J-1308 | 3.99 | 5,082 | 5,175 | 39.98 | Zone 2 |
| J-1304 | 3.99 | 5,082 | 5,175 | 39.99 | Zone 2 |
| J-742 | 0 | 5,189 | 5,282 | 40.15 | Zone 4 |
| J-81 | 10.63 | 5,073 | 5,165 | 40.2 | Zone 2 |
| J-760 | 0 | 5,189 | 5,282 | 40.21 | Zone 4 |
| J-241 | 0 | 5,189 | 5,282 | 40.26 | Zone 4 |
| J-133 | 10.63 | 5,075 | 5,168 | 40.36 | Zone 2 |
| H-5-PH18 | 0 | 5,189 | 5,282 | 40.4 | Zone 4 |
| J-76 | 2.66 | 5,075 | 5,168 | 40.48 | Zone 2 |
| J-84 | 7.44 | 5,074 | 5,168 | 40.49 | Zone 2 |
| J-89 | 0 | 5,074 | 5,168 | 40.58 | Zone 2 |
| J-743 | 4.74 | 5,188 | 5,282 | 40.58 | Zone 4 |
| H-9-PH19 | 0 | 5,188 | 5,282 | 40.85 | Zone 4 |
| J-124 | 0 | 5,072 | 5,166 | 41.02 | Zone 2 |
| J-759 | 0 | 5,187 | 5,282 | 41.03 | Zone 4 |
| J-91 | 0 | 5,071 | 5,166 | 41.04 | Zone 2 |
| J-98 | 0 | 5,072 | 5,167 | 41.12 | Zone 2 |
| J-90 | 6.38 | 5,072 | 5,167 | 41.16 | Zone 2 |
| J-134 | 0 | 5,072 | 5,167 | 41.25 | Zone 2 |
| J-66 | 7.44 | 5,073 | 5,168 | 41.27 | Zone 2 |
| J-132 | 0 | 5,074 | 5,169 | 41.29 | Zone 2 |
| J-44 | 10.1 | 5,071 | 5,166 | 41.32 | Zone 2 |
| J-355 | 0 | 5,071 | 5,166 | 41.34 | Zone 2 |
| J-93 | 0 | 5,072 | 5,167 | 41.46 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|----------|--------------|----------------|-----------|----------------|--------|
| J-240 | 0 | 5,076 | 5,172 | 41.56 | Zone 2 |
| J-747 | 3.88 | 5,186 | 5,282 | 41.6 | Zone 4 |
| J-85 | 6.91 | 5,072 | 5,168 | 41.61 | Zone 2 |
| J-131 | 10.63 | 5,073 | 5,169 | 41.86 | Zone 2 |
| J-120 | 10.63 | 5,069 | 5,166 | 41.97 | Zone 2 |
| H-8-PH19 | 0 | 5,185 | 5,282 | 41.99 | Zone 4 |
| J-45 | 8.5 | 5,069 | 5,166 | 42.02 | Zone 2 |
| J-1309 | 3.99 | 5,078 | 5,175 | 42.03 | Zone 2 |
| J-99 | 0 | 5,070 | 5,167 | 42.06 | Zone 2 |
| J-1328 | 7.84 | 5,077 | 5,175 | 42.11 | Zone 2 |
| J-1338 | 7.84 | 5,078 | 5,175 | 42.11 | Zone 2 |
| J-92 | 7.97 | 5,070 | 5,167 | 42.14 | Zone 2 |
| J-749 | 0 | 5,185 | 5,282 | 42.16 | Zone 4 |
| J-95 | 10.1 | 5,068 | 5,165 | 42.29 | Zone 2 |
| H-7-PH19 | 0 | 5,184 | 5,282 | 42.41 | Zone 4 |
| J-115 | 6.91 | 5,068 | 5,166 | 42.54 | Zone 2 |
| J-746 | 0 | 5,184 | 5,282 | 42.56 | Zone 4 |
| J-1325 | 7.31 | 5,076 | 5,174 | 42.79 | Zone 2 |
| J-106 | 9.03 | 5,067 | 5,166 | 42.84 | Zone 2 |
| J-40 | 10.1 | 5,069 | 5,168 | 42.87 | Zone 2 |
| J-751 | 3.45 | 5,183 | 5,282 | 42.87 | Zone 4 |
| J-1310 | 3.99 | 5,076 | 5,175 | 42.9 | Zone 2 |
| J-121 | 0 | 5,067 | 5,166 | 42.98 | Zone 2 |
| J-1307 | 3.99 | 5,075 | 5,175 | 43.02 | Zone 2 |
| J-1306 | 3.99 | 5,075 | 5,175 | 43.02 | Zone 2 |
| J-1305 | 3.99 | 5,075 | 5,175 | 43.02 | Zone 2 |
| J-1311 | 3.99 | 5,075 | 5,175 | 43.02 | Zone 2 |
| J-1312 | 3.99 | 5,075 | 5,175 | 43.02 | Zone 2 |
| J-109 | 5.31 | 5,067 | 5,166 | 43.05 | Zone 2 |
| J-96 | 8.5 | 5,067 | 5,166 | 43.05 | Zone 2 |
| J-105 | 0 | 5,066 | 5,166 | 43.26 | Zone 2 |
| J-108 | 7.44 | 5,066 | 5,166 | 43.39 | Zone 2 |
| J-86 | 0 | 5,068 | 5,168 | 43.4 | Zone 2 |
| J-1315 | 3.99 | 5,074 | 5,175 | 43.46 | Zone 2 |
| J-119 | 5.31 | 5,066 | 5,166 | 43.48 | Zone 2 |
| J-1248 | 0 | 5,066 | 5,166 | 43.6 | Zone 2 |
| J-118 | 5.85 | 5,066 | 5,166 | 43.62 | Zone 2 |
| J-1326 | 7.31 | 5,074 | 5,174 | 43.65 | Zone 2 |
| J-104 | 6.91 | 5,065 | 5,166 | 43.7 | Zone 2 |
| J-103 | 5.85 | 5,065 | 5,166 | 43.75 | Zone 2 |
| J-1336 | 7.84 | 5,074 | 5,175 | 43.77 | Zone 2 |
| WELL2 | 0 | 5,065 | 5,166 | 43.84 | Zone 2 |
| J-114 | 8.5 | 5,065 | 5,166 | 43.93 | Zone 2 |
| J-123 | 8.5 | 5,065 | 5,166 | 43.98 | Zone 2 |
| J-97 | 0 | 5,064 | 5,166 | 44.1 | Zone 2 |
| J-62 | 5.31 | 5,066 | 5,168 | 44.1 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-110 | 13.28 | 5,065 | 5,166 | 44.14 | Zone 2 |
| J-67 | 8.5 | 5,066 | 5,168 | 44.2 | Zone 2 |
| J-1314 | 7.84 | 5,073 | 5,175 | 44.21 | Zone 2 |
| J-1315-2 | 0 | 5,073 | 5,175 | 44.21 | Zone 2 |
| J-1314-1 | 7.84 | 5,073 | 5,175 | 44.21 | Zone 2 |
| J-1324 | 7.31 | 5,072 | 5,175 | 44.28 | Zone 2 |
| J-1315-1 | 7.84 | 5,072 | 5,175 | 44.42 | Zone 2 |
| J-117 | 0 | 5,064 | 5,166 | 44.48 | Zone 2 |
| J-1339 | 7.84 | 5,072 | 5,175 | 44.5 | Zone 2 |
| J-122 | 7.44 | 5,063 | 5,166 | 44.57 | Zone 2 |
| J-70 | 3.72 | 5,065 | 5,168 | 44.72 | Zone 2 |
| J-480 | 0 | 5,179 | 5,282 | 44.72 | Zone 4 |
| J-116 | 7.44 | 5,063 | 5,166 | 44.77 | Zone 2 |
| J-1327 | 7.31 | 5,071 | 5,175 | 44.83 | Zone 2 |
| J-1299 | 7.84 | 5,071 | 5,175 | 44.83 | Zone 2 |
| J-39 | 8.5 | 5,064 | 5,168 | 45.05 | Zone 2 |
| J-111 | 9.57 | 5,063 | 5,167 | 45.19 | Zone 2 |
| J-275 | 7.44 | 5,062 | 5,166 | 45.23 | Zone 2 |
| J-38 | 9.57 | 5,063 | 5,168 | 45.32 | Zone 2 |
| J-397 | 5.17 | 5,177 | 5,282 | 45.43 | Zone 4 |
| J-1302 | 3.99 | 5,070 | 5,175 | 45.44 | Zone 2 |
| J-1303 | 3.99 | 5,070 | 5,175 | 45.51 | Zone 2 |
| J-1301 | 3.99 | 5,070 | 5,175 | 45.55 | Zone 2 |
| J-396 | 6.03 | 5,177 | 5,282 | 45.65 | Zone 4 |
| J-1316 | 0 | 5,069 | 5,175 | 45.72 | Zone 2 |
| H-6-PH19 | 0 | 5,176 | 5,282 | 45.8 | Zone 4 |
| J-753 | 4.31 | 5,175 | 5,282 | 46.18 | Zone 4 |
| J-1298 | 0 | 5,068 | 5,175 | 46.38 | Zone 2 |
| J-100 | 6.91 | 5,060 | 5,167 | 46.76 | Zone 2 |
| J-73 | 0 | 5,060 | 5,168 | 46.8 | Zone 2 |
| J-101 | 0 | 5,059 | 5,167 | 46.84 | Zone 2 |
| J-1 | 0 | 5,206 | 5,314 | 46.97 | Zone 1 |
| J-PH19IRR2 | 0 | 5,174 | 5,282 | 46.99 | Zone 4 |
| J-398 | 4.95 | 5,173 | 5,282 | 47.03 | Zone 4 |
| J-234 | 3.02 | 5,211 | 5,319 | 47.06 | Zone 3 |
| H-5-PH19 | 0 | 5,173 | 5,282 | 47.06 | Zone 4 |
| J-752 | 4.31 | 5,173 | 5,282 | 47.32 | Zone 4 |
| J-61 | 9.57 | 5,059 | 5,168 | 47.35 | Zone 2 |
| J-1300 | 3.99 | 5,066 | 5,175 | 47.36 | Zone 2 |
| J-1342 | 7.84 | 5,065 | 5,175 | 47.54 | Zone 2 |
| J-1343 | 0 | 5,065 | 5,175 | 47.54 | Zone 2 |
| J-1335 | 7.84 | 5,065 | 5,175 | 47.67 | Zone 2 |
| J-1341 | 0 | 5,065 | 5,175 | 47.69 | Zone 2 |
| J-1340 | 7.84 | 5,065 | 5,175 | 47.82 | Zone 2 |
| J-2 | 0 | 5,202 | 5,313 | 47.95 | Zone 1 |
| J-74 | 9.03 | 5,058 | 5,168 | 47.99 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-112 | 11.16 | 5,057 | 5,167 | 48.02 | Zone 2 |
| J-274 | 5.31 | 5,055 | 5,167 | 48.16 | Zone 2 |
| J-72 | 11.69 | 5,057 | 5,168 | 48.18 | Zone 2 |
| J-60 | 8.5 | 5,057 | 5,168 | 48.25 | Zone 2 |
| J-17 | 0 | 5,057 | 5,168 | 48.31 | Zone 2 |
| J-102 | 10.63 | 5,056 | 5,169 | 48.61 | Zone 2 |
| J-71 | 0 | 5,056 | 5,168 | 48.78 | Zone 2 |
| J-113 | 2.13 | 5,054 | 5,167 | 49.02 | Zone 2 |
| J-59 | 5.31 | 5,057 | 5,170 | 49.31 | Zone 2 |
| J-43 | 5.31 | 5,055 | 5,169 | 49.41 | Zone 2 |
| J-157 | 0 | 5,054 | 5,168 | 49.42 | Zone 2 |
| J-235 | 0 | 5,204 | 5,320 | 50.25 | Zone 3 |
| J-57 | 7.44 | 5,053 | 5,170 | 50.53 | Zone 2 |
| H-4-PH19 | 0 | 5,165 | 5,282 | 50.54 | Zone 4 |
| J-69 | 0 | 5,051 | 5,168 | 50.71 | Zone 2 |
| J-481 | 0 | 5,165 | 5,282 | 50.76 | Zone 4 |
| J-755 | 4.31 | 5,165 | 5,282 | 50.78 | Zone 4 |
| J-237 | 3.45 | 5,202 | 5,320 | 50.96 | Zone 3 |
| J-68 | 7.44 | 5,050 | 5,168 | 51.1 | Zone 2 |
| J-16 | 0 | 5,050 | 5,169 | 51.27 | Zone 2 |
| H-3-PH19 | 0 | 5,164 | 5,282 | 51.31 | Zone 4 |
| WELL7 | 0 | 5,200 | 5,319 | 51.34 | Zone 1 |
| J-744 | 0 | 5,163 | 5,282 | 51.67 | Zone 4 |
| J-58 | 0 | 5,051 | 5,170 | 51.71 | Zone 2 |
| J-756 | 4.31 | 5,162 | 5,282 | 51.89 | Zone 4 |
| J-185 | 0 | 5,199 | 5,319 | 52.02 | Zone 3 |
| J-37 | 0 | 5,052 | 5,173 | 52.6 | Zone 2 |
| J-192 | 3.1 | 5,189 | 5,311 | 52.7 | Zone 1 |
| J-63 | 11.07 | 5,047 | 5,169 | 52.97 | Zone 2 |
| J-395 | 4.31 | 5,159 | 5,282 | 53.09 | Zone 4 |
| J-193 | 5.32 | 5,175 | 5,299 | 53.32 | Zone 1 |
| J-55 | 6.38 | 5,047 | 5,171 | 53.66 | Zone 2 |
| J-394 | 6.03 | 5,158 | 5,282 | 53.81 | Zone 4 |
| J-392 | 6.03 | 5,158 | 5,282 | 53.82 | Zone 4 |
| J-50 | 6.38 | 5,046 | 5,171 | 53.83 | Zone 2 |
| J-53 | 9.57 | 5,049 | 5,174 | 53.91 | Zone 2 |
| J-652 | 6.66 | 5,148 | 5,272 | 54.07 | Zone 1 |
| J-3 | 0 | 5,179 | 5,305 | 54.28 | Zone 1 |
| J-805 | 0 | 5,045 | 5,171 | 54.29 | Zone 4 |
| WELL6 | 0 | 5,191 | 5,316 | 54.31 | Zone 1 |
| H-21-PH19 | 0 | 5,045 | 5,171 | 54.46 | Zone 4 |
| J-255 | 0 | 5,045 | 5,171 | 54.51 | Zone 2 |
| J-56 | 9.57 | 5,044 | 5,170 | 54.71 | Zone 2 |
| J-1246 | 0 | 5,049 | 5,176 | 55.04 | Zone 2 |
| J-15 | 6.19 | 5,045 | 5,172 | 55.08 | Zone 2 |
| J-51 | 4.78 | 5,045 | 5,172 | 55.24 | Zone 2 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| ALLEYCHUR | 10.62 | 5,043 | 5,171 | 55.26 | Zone 2 |
| J-42 | 3.1 | 5,043 | 5,171 | 55.3 | Zone 2 |
| J-194 | 7.97 | 5,043 | 5,171 | 55.45 | Zone 2 |
| J-399 | 0 | 5,154 | 5,282 | 55.48 | Zone 4 |
| J-54 | 0 | 5,045 | 5,173 | 55.63 | Zone 2 |
| H-2-PH19 | 0 | 5,153 | 5,282 | 55.84 | Zone 4 |
| J-797 | 9.57 | 5,047 | 5,176 | 56.08 | Zone 2 |
| J-758 | 4.31 | 5,152 | 5,282 | 56.18 | Zone 4 |
| J-52 | 3.72 | 5,043 | 5,173 | 56.35 | Zone 2 |
| ANDYKEWE | 0 | 5,046 | 5,176 | 56.54 | Zone 2 |
| 49RENOTRU | 3.1 | 5,042 | 5,173 | 56.79 | Zone 2 |
| J-PH19IRR1 | 0 | 5,151 | 5,282 | 56.84 | Zone 4 |
| H-1-PH19 | 0 | 5,151 | 5,282 | 56.85 | Zone 4 |
| J-1262 | 3.1 | 5,172 | 5,303 | 56.95 | Zone 1 |
| J-757 | 4.31 | 5,150 | 5,282 | 57.18 | Zone 4 |
| J-1245 | 0 | 5,050 | 5,183 | 57.65 | Zone 2 |
| J-448 | 7.32 | 5,134 | 5,268 | 57.69 | Zone 1 |
| J-140 | 11.21 | 5,185 | 5,318 | 57.72 | Zone 3 |
| J-142 | 5.6 | 5,182 | 5,317 | 58.55 | Zone 3 |
| J-393 | 5.17 | 5,147 | 5,282 | 58.58 | Zone 4 |
| J-391 | 4.31 | 5,146 | 5,282 | 58.78 | Zone 4 |
| FH-925 | 0 | 5,144 | 5,282 | 59.85 | Zone 4 |
| J-23-1188 | 1.29 | 5,143 | 5,282 | 60.13 | Zone 4 |
| J-4 | 8.42 | 5,163 | 5,302 | 60.13 | Zone 1 |
| J22-901 | 0 | 5,142 | 5,282 | 60.43 | Zone 4 |
| J-482 | 0 | 5,142 | 5,282 | 60.46 | Zone 4 |
| J-23-1191 | 0 | 5,142.10 | 5,281.67 | 60.48 | Zone 4 |
| J-23-1193 | 3.02 | 5,142 | 5,282 | 60.52 | Zone 4 |
| J-23-1190 | 0.86 | 5,142 | 5,282 | 60.52 | Zone 4 |
| J-23-1192 | 0 | 5,142 | 5,282 | 60.54 | Zone 4 |
| J-23-1189 | 1.29 | 5,142 | 5,282 | 60.54 | Zone 4 |
| J-23-1187 | 0.86 | 5,142 | 5,282 | 60.59 | Zone 4 |
| J-830 | 0 | 5,141 | 5,282 | 60.75 | Zone 4 |
| J-679 | 7.33 | 5,140 | 5,282 | 61.27 | Zone 4 |
| J-1184 | 0 | 5,140 | 5,282 | 61.36 | Zone 4 |
| J-23-1186 | 0 | 5,140 | 5,282 | 61.41 | Zone 4 |
| J-23-1225 | 0 | 5,140 | 5,282 | 61.46 | Zone 4 |
| J-685 | 0 | 5,139 | 5,282 | 61.67 | Zone 4 |
| H-68-PH19 | 0 | 5,139 | 5,282 | 61.7 | Zone 4 |
| J-836 | 3.88 | 5,139 | 5,282 | 61.75 | Zone 4 |
| J-819 | 0 | 5,139 | 5,282 | 61.78 | Zone 4 |
| J-390 | 0 | 5,139 | 5,282 | 61.79 | Zone 4 |
| J-829 | 0 | 5,139 | 5,282 | 61.94 | Zone 4 |
| AV-1 | 0 | 5,139 | 5,282 | 61.97 | Zone 4 |
| H-67-PH19 | 0 | 5,138 | 5,282 | 62.08 | Zone 4 |
| FH-921 | 0 | 5,138 | 5,282 | 62.18 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-841 | 0 | 5,138 | 5,282 | 62.22 | Zone 4 |
| J-820 | 0 | 5,137 | 5,282 | 62.84 | Zone 4 |
| H-7-PH20 | 0 | 5,137 | 5,282 | 62.88 | Zone 4 |
| J-1199 | 0 | 5,137 | 5,282 | 62.9 | Zone 4 |
| J-187 | 0 | 5,173 | 5,318 | 63.01 | Zone 3 |
| J-815 | 4.95 | 5,136 | 5,282 | 63.15 | Zone 4 |
| PH22-FH1 | 0 | 5,136 | 5,282 | 63.21 | Zone 4 |
| J-678 | 0 | 5,135 | 5,282 | 63.6 | Zone 4 |
| J-145 | 5.17 | 5,170 | 5,317 | 63.74 | Zone 3 |
| J-352 | 5.6 | 5,134 | 5,282 | 63.9 | Zone 4 |
| FH-922 | 0 | 5,134 | 5,282 | 64.24 | Zone 4 |
| FH-926 | 0 | 5,133 | 5,282 | 64.41 | Zone 4 |
| J-141 | 4.74 | 5,169 | 5,317 | 64.48 | Zone 3 |
| H-4-PH20 | 0 | 5,133 | 5,282 | 64.52 | Zone 4 |
| J-810 | 0 | 5,133 | 5,282 | 64.63 | Zone 4 |
| J-447 | 5.32 | 5,118 | 5,268 | 64.74 | Zone 1 |
| J-816 | 5.17 | 5,132 | 5,282 | 64.79 | Zone 4 |
| J-646 | 10.65 | 5,123 | 5,272 | 64.79 | Zone 1 |
| J-730 | 0 | 5,131 | 5,282 | 65.16 | Zone 4 |
| J-806 | 0 | 5,131 | 5,282 | 65.24 | Zone 4 |
| J-732 | 0 | 5,131 | 5,282 | 65.3 | Zone 4 |
| H-1-PH20 | 0 | 5,131 | 5,282 | 65.3 | Zone 4 |
| H-2-PH18 | 0 | 5,131 | 5,282 | 65.4 | Zone 4 |
| J-653 | 6.66 | 5,121 | 5,272 | 65.55 | Zone 1 |
| J-677 | 8.62 | 5,130 | 5,282 | 65.6 | Zone 4 |
| ERTOWNCA | 3.1 | 5,124 | 5,276 | 65.63 | Zone 1 |
| J-688 | 4.95 | 5,130 | 5,282 | 65.75 | Zone 4 |
| FH-923 | 0 | 5,130 | 5,282 | 65.78 | Zone 4 |
| J22-899 | 0 | 5,130 | 5,282 | 65.79 | Zone 4 |
| J-23-1195 | 1.29 | 5,130 | 5,282 | 65.81 | Zone 4 |
| J-23-1196 | 1.72 | 5,130 | 5,282 | 65.81 | Zone 4 |
| J-811 | 5.6 | 5,130 | 5,282 | 65.83 | Zone 4 |
| J-23-1194 | 2.15 | 5,130 | 5,282 | 65.92 | Zone 4 |
| J-687 | 0 | 5,129 | 5,282 | 66.09 | Zone 4 |
| J-807 | 4.74 | 5,129 | 5,282 | 66.13 | Zone 4 |
| J-23-1197 | 1.29 | 5,129 | 5,282 | 66.25 | Zone 4 |
| J-675 | 0 | 5,129 | 5,282 | 66.31 | Zone 4 |
| J-645 | 0 | 5,119 | 5,273 | 66.36 | Zone 1 |
| J-839 | 0 | 5,128 | 5,282 | 66.7 | Zone 4 |
| J-328 | 0 | 5,114 | 5,268 | 66.73 | Zone 1 |
| J-483 | 0 | 5,128 | 5,282 | 66.78 | Zone 4 |
| H-69-PH19 | 0 | 5,127 | 5,282 | 66.86 | Zone 4 |
| J-676 | 0 | 5,127 | 5,282 | 66.89 | Zone 4 |
| FH-930 | 0 | 5,126.99 | 5,281.72 | 67.04 | Zone 4 |
| J-443 | 4.31 | 5,127 | 5,282 | 67.1 | Zone 4 |
| J-189 | 0 | 5,145 | 5,301 | 67.31 | Zone 1 |

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Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-576 | 5.17 | 5,126 | 5,282 | 67.32 | Zone 4 |
| J-1198 | 0 | 5,126 | 5,282 | 67.47 | Zone 4 |
| J-343 | 5.99 | 5,109 | 5,264 | 67.52 | Zone 1 |
| FH-927 | 0 | 5,125.90 | 5,281.73 | 67.52 | Zone 4 |
| J-159 | 7.32 | 5,108 | 5,264 | 67.57 | Zone 1 |
| J-842 | 3.88 | 5,126 | 5,282 | 67.62 | Zone 4 |
| J-143 | 3.88 | 5,161 | 5,317 | 67.66 | Zone 3 |
| H-8-PH20 | 0 | 5,125.42 | 5,281.67 | 67.7 | Zone 4 |
| H-66-PH19 | 0 | 5,125 | 5,282 | 67.8 | Zone 4 |
| J-190 | 0 | 5,143 | 5,299 | 67.95 | Zone 1 |
| J-844 | 2.15 | 5,125 | 5,282 | 67.96 | Zone 4 |
| H-5-PH20 | 0 | 5,124.50 | 5,281.67 | 68.1 | Zone 4 |
| J-736 | 6.03 | 5,124 | 5,282 | 68.22 | Zone 4 |
| J-644 | 11.31 | 5,115 | 5,273 | 68.27 | Zone 1 |
| H-2-PH20 | 0 | 5,124 | 5,282 | 68.5 | Zone 4 |
| J-817 | 0 | 5,122 | 5,282 | 69.12 | Zone 4 |
| J-846 | 0 | 5,122 | 5,282 | 69.26 | Zone 4 |
| J-690 | 0 | 5,122 | 5,282 | 69.29 | Zone 4 |
| H-9-PH20 | 0 | 5,122 | 5,282 | 69.36 | Zone 4 |
| J-674 | 0 | 5,121 | 5,282 | 69.46 | Zone 4 |
| H-6-PH20 | 0 | 5,121 | 5,282 | 69.6 | Zone 4 |
| J-808 | 0 | 5,121 | 5,282 | 69.69 | Zone 4 |
| H-65-PH19 | 0 | 5,121 | 5,282 | 69.7 | Zone 4 |
| J-843 | 0 | 5,121 | 5,282 | 69.71 | Zone 4 |
| J-812 | 0 | 5,121 | 5,282 | 69.72 | Zone 4 |
| J22-1078 | 0 | 5,121 | 5,282 | 69.72 | Zone 4 |
| J-160 | 5.99 | 5,103 | 5,264 | 69.82 | Zone 1 |
| J-389 | 1.72 | 5,120 | 5,282 | 69.9 | Zone 4 |
| FH-924 | 0 | 5,120 | 5,282 | 69.93 | Zone 4 |
| J-334 | 0 | 5,106 | 5,268 | 70.01 | Zone 1 |
| J-23-1201 | 1.72 | 5,119.21 | 5,281.67 | 70.4 | Zone 4 |
| J-348 | 4.31 | 5,119 | 5,282 | 70.48 | Zone 4 |
| J-23-1202 | 2.15 | 5,119 | 5,282 | 70.52 | Zone 4 |
| J-333 | 6.66 | 5,104 | 5,268 | 70.83 | Zone 1 |
| J-813 | 5.17 | 5,118 | 5,282 | 70.91 | Zone 4 |
| J-184 | 4.95 | 5,118 | 5,282 | 70.92 | Zone 4 |
| J-818 | 4.74 | 5,118 | 5,282 | 70.94 | Zone 4 |
| J-680 | 5.6 | 5,118 | 5,282 | 70.97 | Zone 4 |
| J-1200 | 0 | 5,118 | 5,282 | 71.12 | Zone 4 |
| J-306 | 5.32 | 5,134 | 5,298 | 71.14 | Zone 1 |
| H-3-PH20 | 0 | 5,117 | 5,282 | 71.15 | Zone 4 |
| H-3-PH18 | 0 | 5,117 | 5,282 | 71.19 | Zone 4 |
| J-329 | 5.32 | 5,103 | 5,268 | 71.19 | Zone 1 |
| J-823 | 0 | 5,117 | 5,282 | 71.21 | Zone 4 |
| J-809 | 4.74 | 5,117 | 5,282 | 71.22 | Zone 4 |
| J-729 | 0 | 5,117 | 5,282 | 71.38 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-139 | 0 | 5,153.08 | 5,317.95 | 71.44 | Zone 3 |
| J-5 | 5.32 | 5,133 | 5,298 | 71.48 | Zone 1 |
| J-346 | 0 | 5,116 | 5,282 | 71.78 | Zone 4 |
| J-735 | 0 | 5,116 | 5,282 | 71.78 | Zone 4 |
| J-851 | 3.45 | 5,116 | 5,282 | 71.84 | Zone 4 |
| H-61-PH19 | 0 | 5,116 | 5,282 | 71.84 | Zone 4 |
| J-1183 | 0 | 5,116 | 5,282 | 71.86 | Zone 4 |
| PH22-FH2 | 0 | 5,115 | 5,282 | 72.01 | Zone 4 |
| J-770 | 0 | 5,115 | 5,282 | 72.01 | Zone 4 |
| FH-928 | 0 | 5,115 | 5,282 | 72.07 | Zone 4 |
| J-833 | 0 | 5,115 | 5,282 | 72.1 | Zone 4 |
| H-64-PH19 | 0 | 5,115 | 5,282 | 72.12 | Zone 4 |
| J-840 | 4.31 | 5,114.89 | 5,281.67 | 72.27 | Zone 4 |
| J-845 | 4.31 | 5,114.73 | 5,281.67 | 72.34 | Zone 4 |
| H-70-PH19 | 0 | 5,115 | 5,282 | 72.41 | Zone 4 |
| J22-886 | 1.29 | 5,114 | 5,282 | 72.58 | Zone 4 |
| J-814 | 0 | 5,114 | 5,282 | 72.59 | Zone 4 |
| H-58-PH19 | 0 | 5,114 | 5,282 | 72.66 | Zone 4 |
| J-340 | 3.99 | 5,097 | 5,264 | 72.68 | Zone 1 |
| J-855 | 3.88 | 5,114 | 5,282 | 72.7 | Zone 4 |
| J-442 | 4.74 | 5,113.79 | 5,281.67 | 72.74 | Zone 4 |
| PH22-FH4 | 0 | 5,114 | 5,282 | 72.75 | Zone 4 |
| J22-884 | 1.29 | 5,114 | 5,282 | 72.81 | Zone 4 |
| H-60-PH19 | 0 | 5,114 | 5,282 | 72.83 | Zone 4 |
| J-832 | 0 | 5,113 | 5,282 | 72.87 | Zone 4 |
| J-689 | 3.88 | 5,113.48 | 5,281.71 | 72.89 | Zone 4 |
| J22-1079 | 2.88 | 5,113 | 5,282 | 72.9 | Zone 4 |
| J22-1159 | 1.29 | 5,113.40 | 5,281.67 | 72.91 | Zone 4 |
| J-852 | 3.45 | 5,113 | 5,282 | 72.93 | Zone 4 |
| J22-1158 | 1.29 | 5,113 | 5,282 | 72.94 | Zone 4 |
| J-446 | 5.32 | 5,099 | 5,268 | 72.95 | Zone 1 |
| PH22-FH3 | 0 | 5,113 | 5,282 | 72.96 | Zone 4 |
| H-59-PH19 | 0 | 5,113 | 5,282 | 72.99 | Zone 4 |
| J-856 | 3.88 | 5,113 | 5,282 | 73 | Zone 4 |
| J22-1080 | 0 | 5,113 | 5,282 | 73.03 | Zone 4 |
| J-648 | 3.33 | 5,104 | 5,272 | 73.05 | Zone 1 |
| J-650 | 0 | 5,113 | 5,282 | 73.11 | Zone 4 |
| J-27 | 0 | 5,102 | 5,271 | 73.12 | Zone 1 |
| J-596 | 0 | 5,105 | 5,274 | 73.42 | Zone 1 |
| J-603 | 6.66 | 5,103 | 5,272 | 73.45 | Zone 1 |
| MIDDLESCH | 4.95 | 5,112 | 5,282 | 73.48 | Zone 4 |
| J-434 | 3.45 | 5,112 | 5,281 | 73.49 | Zone 4 |
| J-441 | 4.74 | 5,112 | 5,282 | 73.5 | Zone 4 |
| J-783 | 3.02 | 5,112 | 5,282 | 73.52 | Zone 4 |
| J-570 | 0 | 5,112 | 5,282 | 73.53 | Zone 4 |
| J-332 | 0 | 5,098 | 5,268 | 73.56 | Zone 1 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| H-20-PH17 | 0 | 5,111.82 | 5,281.67 | 73.6 | Zone 4 |
| J-854 | 3.88 | 5,112 | 5,282 | 73.64 | Zone 4 |
| J-25 | 0 | 5,104 | 5,274 | 73.65 | Zone 1 |
| H-57-PH19 | 0 | 5,112 | 5,282 | 73.73 | Zone 4 |
| J-433 | 1.72 | 5,111 | 5,281 | 73.9 | Zone 4 |
| J-195 | 0 | 5,111 | 5,281 | 73.96 | Zone 4 |
| J-734 | 0 | 5,111 | 5,282 | 73.96 | Zone 4 |
| J22-848 | 0 | 5,111 | 5,282 | 74.09 | Zone 4 |
| FH-919 | 5.17 | 5,111 | 5,282 | 74.13 | Zone 4 |
| J-166 | 5.32 | 5,093.26 | 5,264.49 | 74.2 | Zone 1 |
| J-330 | 4.66 | 5,096 | 5,268 | 74.21 | Zone 1 |
| J-681 | 0 | 5,110 | 5,282 | 74.23 | Zone 4 |
| J-647 | 6.66 | 5,101 | 5,272 | 74.27 | Zone 1 |
| H-72-PH19 | 0 | 5,110 | 5,282 | 74.33 | Zone 4 |
| J22-887 | 0 | 5,110 | 5,282 | 74.45 | Zone 4 |
| J-144 | 0 | 5,145 | 5,317 | 74.46 | Zone 3 |
| J22-1082 | 4.95 | 5,110 | 5,282 | 74.54 | Zone 4 |
| J22-1083 | 0 | 5,109 | 5,282 | 74.63 | Zone 4 |
| J22-1160 | 0 | 5,109 | 5,282 | 74.64 | Zone 4 |
| J-387 | 0 | 5,126 | 5,298 | 74.68 | Zone 1 |
| J-445 | 0 | 5,095.13 | 5,267.61 | 74.74 | Zone 1 |
| J-649 | 0 | 5,109 | 5,282 | 74.75 | Zone 4 |
| PH22-FH5 | 0 | 5,109 | 5,282 | 74.76 | Zone 4 |
| PH22-FH6 | 0 | 5,108.82 | 5,281.68 | 74.9 | Zone 4 |
| J22-1161 | 1.29 | 5,109 | 5,282 | 74.96 | Zone 4 |
| J-835 | 0 | 5,109 | 5,282 | 74.97 | Zone 4 |
| J-834 | 0 | 5,109 | 5,282 | 75.01 | Zone 4 |
| H-4-PH18 | 0 | 5,109 | 5,282 | 75.02 | Zone 4 |
| J-1179 | 0 | 5,108.50 | 5,281.67 | 75.04 | Zone 4 |
| H-62-PH19 | 0 | 5,108 | 5,282 | 75.1 | Zone 4 |
| J-571 | 0 | 5,108 | 5,282 | 75.23 | Zone 4 |
| J22-1163 | 1.29 | 5,108 | 5,282 | 75.24 | Zone 4 |
| J-731 | 0 | 5,108 | 5,282 | 75.24 | Zone 4 |
| J-286 | 13.57 | 5,108 | 5,282 | 75.31 | Zone 4 |
| PH22-FH7 | 0 | 5,108 | 5,282 | 75.38 | Zone 4 |
| J-847 | 0 | 5,107 | 5,282 | 75.62 | Zone 4 |
| J-595 | 2.66 | 5,099 | 5,274 | 75.68 | Zone 1 |
| J-642 | 0 | 5,107 | 5,282 | 75.69 | Zone 4 |
| J22-890 | 0.86 | 5,107 | 5,282 | 75.77 | Zone 4 |
| J-336 | 5.32 | 5,091 | 5,266 | 75.82 | Zone 1 |
| J22-1069 | 0 | 5,106.60 | 5,281.68 | 75.86 | Zone 4 |
| J-284 | 6.9 | 5,106 | 5,282 | 75.94 | Zone 4 |
| J-667 | 0 | 5,106 | 5,282 | 76.13 | Zone 4 |
| J-850 | 3.45 | 5,106 | 5,282 | 76.29 | Zone 4 |
| J-765 | 0 | 5,106 | 5,282 | 76.3 | Zone 4 |
| H-63-PH19 | 0 | 5,105 | 5,282 | 76.35 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-606 | 9.32 | 5,096 | 5,273 | 76.4 | Zone 1 |
| J-857 | 0 | 5,105 | 5,282 | 76.43 | Zone 4 |
| J-858 | 3.45 | 5,104.55 | 5,281.67 | 76.75 | Zone 4 |
| J-191 | 8.42 | 5,122 | 5,299 | 76.76 | Zone 1 |
| FH-929 | 0 | 5,104 | 5,282 | 76.85 | Zone 4 |
| J-290 | 0 | 5,120 | 5,298 | 76.86 | Zone 1 |
| J-592 | 8.65 | 5,096 | 5,273 | 76.89 | Zone 1 |
| J22-1070 | 0 | 5,104 | 5,282 | 76.91 | Zone 4 |
| J-23-1206 | 1.29 | 5,104 | 5,282 | 77.1 | Zone 4 |
| J-203 | 4.31 | 5,103 | 5,281 | 77.12 | Zone 4 |
| J-769 | 0 | 5,104 | 5,282 | 77.14 | Zone 4 |
| J-341 | 0 | 5,088 | 5,266 | 77.21 | Zone 1 |
| J-327 | 7.32 | 5,089.27 | 5,267.61 | 77.27 | Zone 1 |
| J-853 | 0 | 5,103 | 5,282 | 77.29 | Zone 4 |
| H-19-PH17 | 0 | 5,103 | 5,282 | 77.33 | Zone 4 |
| J-764 | 4.95 | 5,103.20 | 5,281.67 | 77.33 | Zone 4 |
| FH-920 | 0 | 5,103 | 5,282 | 77.37 | Zone 4 |
| J-23-1205 | 1.29 | 5,103 | 5,282 | 77.42 | Zone 4 |
| J-733 | 6.03 | 5,103 | 5,282 | 77.44 | Zone 4 |
| J-651 | 0 | 5,103 | 5,282 | 77.51 | Zone 4 |
| J-283 | 4.74 | 5,103 | 5,282 | 77.51 | Zone 4 |
| J-782 | 3.02 | 5,103 | 5,282 | 77.57 | Zone 4 |
| PH22-FH9 | 0 | 5,103 | 5,282 | 77.61 | Zone 4 |
| J22-1165 | 1.72 | 5,102.35 | 5,281.68 | 77.7 | Zone 4 |
| J-799 | 0 | 5,102 | 5,282 | 77.72 | Zone 4 |
| J22-1164 | 1.29 | 5,102.26 | 5,281.68 | 77.74 | Zone 4 |
| J-339 | 4.66 | 5,086 | 5,265 | 77.76 | Zone 1 |
| J22-1084 | 0 | 5,102.15 | 5,281.68 | 77.79 | Zone 4 |
| J-666 | 5.6 | 5,102 | 5,282 | 77.81 | Zone 4 |
| PH22-FH8 | 0 | 5,102 | 5,282 | 77.85 | Zone 4 |
| J-23-1203 | 2.15 | 5,101.82 | 5,281.68 | 77.94 | Zone 4 |
| J22-892 | 0.86 | 5,102 | 5,282 | 78 | Zone 4 |
| J-1071 | 0 | 5,101.47 | 5,281.68 | 78.08 | Zone 4 |
| J-768 | 0 | 5,101 | 5,282 | 78.25 | Zone 4 |
| J23-IRR | 0 | 5,101 | 5,282 | 78.27 | Zone 4 |
| J-432 | 1.72 | 5,100.59 | 5,281.27 | 78.29 | Zone 4 |
| J-683 | 5.6 | 5,101 | 5,282 | 78.41 | Zone 4 |
| J22-1085 | 0 | 5,100.66 | 5,281.68 | 78.44 | Zone 4 |
| J-444 | 0 | 5,137 | 5,318 | 78.44 | Zone 3 |
| J-204 | 4.31 | 5,100 | 5,281 | 78.46 | Zone 4 |
| J22-1166 | 0 | 5,100 | 5,282 | 78.54 | Zone 4 |
| PH22-FH10 | 0 | 5,100 | 5,282 | 78.58 | Zone 4 |
| H-18-PH17 | 0 | 5,100 | 5,282 | 78.65 | Zone 4 |
| J-388 | 0 | 5,116 | 5,297 | 78.8 | Zone 1 |
| J-196 | 0 | 5,099 | 5,281 | 78.83 | Zone 4 |
| H-16-PH17 | 0 | 5,099.69 | 5,281.68 | 78.85 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| J-161 | 5.99 | 5,082 | 5,265 | 78.91 | Zone 1 |
| J-780 | 5.17 | 5,099 | 5,282 | 78.94 | Zone 4 |
| J-763 | 0 | 5,099 | 5,282 | 78.95 | Zone 4 |
| J22-1168 | 1.72 | 5,099 | 5,282 | 79.03 | Zone 4 |
| H-17-PH17 | 0 | 5,099 | 5,282 | 79.04 | Zone 4 |
| J-248 | 6.03 | 5,135.17 | 5,317.67 | 79.07 | Zone 3 |
| PH22-FH11 | 0 | 5,099.17 | 5,281.68 | 79.08 | Zone 4 |
| J22-1170 | 1.72 | 5,098.86 | 5,281.68 | 79.22 | Zone 4 |
| PH22-FH13 | 0 | 5,098.86 | 5,281.68 | 79.22 | Zone 4 |
| J-781 | 4.31 | 5,098.79 | 5,281.68 | 79.24 | Zone 4 |
| J-23-1204 | 2.15 | 5,098.75 | 5,281.68 | 79.27 | Zone 4 |
| J-342 | 0 | 5,082.46 | 5,265.40 | 79.27 | Zone 1 |
| BLDG3-CCCC | 2.88 | 5,098.71 | 5,281.68 | 79.28 | Zone 4 |
| J-281 | 3.45 | 5,098.63 | 5,281.62 | 79.29 | Zone 4 |
| J-138 | 0 | 5,134.58 | 5,317.61 | 79.31 | Zone 3 |
| J22-1147 | 0 | 5,098.63 | 5,281.68 | 79.31 | Zone 4 |
| J22-1086 | 0 | 5,098.57 | 5,281.70 | 79.35 | Zone 4 |
| J22-1171 | 1.72 | 5,098.51 | 5,281.68 | 79.37 | Zone 4 |
| J-715 | 0 | 5,098.51 | 5,281.68 | 79.37 | Zone 4 |
| J-728 | 0 | 5,098.39 | 5,281.68 | 79.42 | Zone 4 |
| J-779 | 0 | 5,098.33 | 5,281.68 | 79.45 | Zone 4 |
| PH22-FH14 | 0 | 5,098.28 | 5,281.68 | 79.47 | Zone 4 |
| J-704 | 4.95 | 5,098.03 | 5,281.68 | 79.58 | Zone 4 |
| J22-896 | 0 | 5,097.93 | 5,281.68 | 79.62 | Zone 4 |
| J-665 | 0 | 5,097.87 | 5,281.69 | 79.65 | Zone 4 |
| J22-1169 | 2.15 | 5,097.42 | 5,281.68 | 79.84 | Zone 4 |
| H-15-PH17 | 0 | 5,097.37 | 5,281.68 | 79.86 | Zone 4 |
| PH22-FH12 | 0 | 5,097.31 | 5,281.68 | 79.89 | Zone 4 |
| J-639 | 0 | 5,097.25 | 5,281.69 | 79.92 | Zone 4 |
| PH22-FH15 | 0 | 5,097.23 | 5,281.68 | 79.92 | Zone 4 |
| J22-1172 | 3.88 | 5,097.21 | 5,281.68 | 79.93 | Zone 4 |
| J-205 | 4.31 | 5,096.27 | 5,280.76 | 79.94 | Zone 4 |
| J-484 | 4.74 | 5,097.17 | 5,281.69 | 79.95 | Zone 4 |
| J-590 | 5.99 | 5,088.31 | 5,272.83 | 79.95 | Zone 1 |
| J-705 | 0 | 5,097.12 | 5,281.68 | 79.97 | Zone 4 |
| J-767 | 4.95 | 5,097.07 | 5,281.68 | 79.99 | Zone 4 |
| J-778 | 6.46 | 5,096.86 | 5,281.68 | 80.08 | Zone 4 |
| J-671 | 4.95 | 5,096.69 | 5,281.69 | 80.16 | Zone 4 |
| J-613 | 0 | 5,096.67 | 5,281.69 | 80.17 | Zone 4 |
| J22-898 | 0 | 5,096.50 | 5,281.68 | 80.24 | Zone 4 |
| J-427 | 6.66 | 5,082.41 | 5,267.61 | 80.25 | Zone 1 |
| J-714 | 0 | 5,096.31 | 5,281.69 | 80.32 | Zone 4 |
| H-13-PH17 | 0 | 5,096.07 | 5,281.68 | 80.42 | Zone 4 |
| J-485 | 10.12 | 5,095.99 | 5,281.69 | 80.47 | Zone 4 |
| J-23-1207 | 2.15 | 5,095.92 | 5,281.71 | 80.5 | Zone 4 |
| J-325 | 7.53 | 5,095.74 | 5,281.63 | 80.54 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-604 | 3.99 | 5,086.47 | 5,272.38 | 80.56 | Zone 1 |
| H-11-PH17 | 0 | 5,095.76 | 5,281.69 | 80.56 | Zone 4 |
| J-762 | 0 | 5,095.74 | 5,281.68 | 80.57 | Zone 4 |
| J22-1072 | 0 | 5,095.73 | 5,281.68 | 80.57 | Zone 4 |
| J-206 | 4.31 | 5,094.63 | 5,280.68 | 80.61 | Zone 4 |
| J-669 | 0 | 5,095.57 | 5,281.69 | 80.65 | Zone 4 |
| J-597 | 7.99 | 5,085.96 | 5,272.21 | 80.7 | Zone 1 |
| J-1275 | 0 | 5,095.37 | 5,281.63 | 80.71 | Zone 4 |
| J-776 | 4.31 | 5,095.41 | 5,281.68 | 80.71 | Zone 4 |
| H-14-PH17 | 0 | 5,095.35 | 5,281.68 | 80.74 | Zone 4 |
| J22-874 | 0.86 | 5,095.38 | 5,281.71 | 80.74 | Zone 4 |
| J-428 | 0 | 5,094.44 | 5,280.88 | 80.78 | Zone 4 |
| J-486 | 0 | 5,095.25 | 5,281.69 | 80.78 | Zone 4 |
| J-431 | 2.15 | 5,094.71 | 5,281.15 | 80.78 | Zone 4 |
| J22-1173 | 0 | 5,095.26 | 5,281.71 | 80.79 | Zone 4 |
| J-670 | 0 | 5,095.24 | 5,281.69 | 80.79 | Zone 4 |
| PH22-FH20 | 0 | 5,095.18 | 5,281.71 | 80.82 | Zone 4 |
| J-1260 | 0 | 5,094.97 | 5,281.63 | 80.88 | Zone 4 |
| J-774 | 0 | 5,095.00 | 5,281.69 | 80.89 | Zone 4 |
| J22-1087 | 7.83 | 5,094.99 | 5,281.71 | 80.9 | Zone 4 |
| J-766 | 0 | 5,094.73 | 5,281.69 | 81.01 | Zone 4 |
| J-197 | 0 | 5,094.12 | 5,281.15 | 81.04 | Zone 4 |
| J-1272 | 2.59 | 5,094.45 | 5,281.64 | 81.11 | Zone 4 |
| J-771 | 8.19 | 5,094.49 | 5,281.69 | 81.11 | Zone 4 |
| J-777 | 0 | 5,094.43 | 5,281.68 | 81.14 | Zone 4 |
| J-23-1228 | 3.45 | 5,094.40 | 5,281.70 | 81.16 | Zone 4 |
| J-660 | 3.45 | 5,094.39 | 5,281.69 | 81.16 | Zone 4 |
| FH-931 | 0 | 5,094.31 | 5,281.68 | 81.19 | Zone 4 |
| H-12-PH17 | 0 | 5,094.20 | 5,281.69 | 81.24 | Zone 4 |
| J-456 | 0 | 5,093.93 | 5,281.68 | 81.35 | Zone 4 |
| J-761 | 0 | 5,093.67 | 5,281.69 | 81.47 | Zone 4 |
| H-10-PH17 | 0 | 5,093.60 | 5,281.69 | 81.5 | Zone 4 |
| J-207 | 4.31 | 5,092.46 | 5,280.63 | 81.53 | Zone 4 |
| J-657 | 4.31 | 5,093.38 | 5,281.69 | 81.6 | Zone 4 |
| J-775 | 4.31 | 5,093.32 | 5,281.69 | 81.62 | Zone 4 |
| FH-917 | 0 | 5,093.28 | 5,281.69 | 81.64 | Zone 4 |
| J-23-1212 | 1.72 | 5,093.24 | 5,281.75 | 81.68 | Zone 4 |
| J-337 | 9.98 | 5,077.64 | 5,266.16 | 81.69 | Zone 1 |
| J-331 | 5.99 | 5,079.08 | 5,267.62 | 81.69 | Zone 1 |
| J-429 | 0 | 5,092.08 | 5,280.76 | 81.76 | Zone 4 |
| J-662 | 4.31 | 5,092.99 | 5,281.70 | 81.77 | Zone 4 |
| J22-1088 | 2.88 | 5,092.98 | 5,281.75 | 81.79 | Zone 4 |
| J22-1174 | 0 | 5,092.88 | 5,281.75 | 81.84 | Zone 4 |
| J-773 | 0 | 5,092.81 | 5,281.69 | 81.84 | Zone 4 |
| J22-880 | 1.29 | 5,092.85 | 5,281.75 | 81.85 | Zone 4 |
| J-430 | 0 | 5,091.77 | 5,280.68 | 81.85 | Zone 4 |

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| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|------------|--------------|----------------|-----------|----------------|--------|
| PH22-FH18 | 0 | 5,092.73 | 5,281.75 | 81.9 | Zone 4 |
| J-23-1210 | 0 | 5,092.56 | 5,281.69 | 81.95 | Zone 4 |
| J-455 | 0 | 5,092.48 | 5,281.69 | 81.98 | Zone 4 |
| 22-IRR-117 | 0 | 5,092.39 | 5,281.75 | 82.05 | Zone 4 |
| J-658 | 6.46 | 5,092.30 | 5,281.69 | 82.06 | Zone 4 |
| J-162 | 6.66 | 5,074.91 | 5,264.31 | 82.07 | Zone 1 |
| 4-VILLAGEO | 4.95 | 5,092.08 | 5,281.68 | 82.15 | Zone 4 |
| J-23-1223 | 0 | 5,092.08 | 5,281.69 | 82.16 | Zone 4 |
| J-198 | 5.6 | 5,091.35 | 5,281.01 | 82.18 | Zone 4 |
| J-23-1208 | 3.02 | 5,092.02 | 5,281.69 | 82.18 | Zone 4 |
| J-23-1209 | 0 | 5,091.90 | 5,281.69 | 82.24 | Zone 4 |
| AV-3 | 0 | 5,091.86 | 5,281.69 | 82.25 | Zone 4 |
| J-655 | 4.31 | 5,091.87 | 5,281.71 | 82.26 | Zone 4 |
| WELL8 | 0 | 5,092.26 | 5,282.11 | 82.26 | Zone 4 |
| FH-918 | 0 | 5,091.71 | 5,281.69 | 82.32 | Zone 4 |
| J-1258 | 0 | 5,091.65 | 5,281.68 | 82.34 | Zone 4 |
| J-466 | 6.46 | 5,091.59 | 5,281.69 | 82.37 | Zone 4 |
| J-656 | 0 | 5,091.48 | 5,281.70 | 82.42 | Zone 4 |
| J-23-1216 | 1.29 | 5,091.71 | 5,281.95 | 82.43 | Zone 4 |
| J-454 | 5.17 | 5,091.37 | 5,281.69 | 82.47 | Zone 4 |
| J-664 | 3.88 | 5,091.23 | 5,281.71 | 82.53 | Zone 4 |
| J-659 | 0 | 5,091.19 | 5,281.69 | 82.55 | Zone 4 |
| J-23-1217 | 0 | 5,091.41 | 5,281.95 | 82.56 | Zone 4 |
| J-1278 | 0 | 5,091.08 | 5,281.68 | 82.58 | Zone 4 |
| J-1266 | 1.29 | 5,091.08 | 5,281.67 | 82.59 | Zone 4 |
| J-589 | 7.99 | 5,082.17 | 5,272.83 | 82.61 | Zone 1 |
| AV-2 | 0 | 5,091.29 | 5,281.95 | 82.61 | Zone 4 |
| J-23-1215 | 0.86 | 5,091.25 | 5,281.92 | 82.62 | Zone 4 |
| J-1257 | 5.17 | 5,090.93 | 5,281.64 | 82.64 | Zone 4 |
| J-23-1219 | 0.86 | 5,091.11 | 5,281.95 | 82.69 | Zone 4 |
| FH-916 | 0 | 5,090.81 | 5,281.70 | 82.71 | Zone 4 |
| J-1279-IRR | 4.95 | 5,090.60 | 5,281.64 | 82.78 | Zone 4 |
| J-23-1222 | 0 | 5,090.93 | 5,282.05 | 82.81 | Zone 4 |
| FH-915 | 0 | 5,090.48 | 5,281.70 | 82.85 | Zone 4 |
| J-23-1220 | 0 | 5,090.74 | 5,281.98 | 82.86 | Zone 4 |
| J-23-1221 | 0 | 5,090.70 | 5,282.02 | 82.9 | Zone 4 |
| J-1259 | 2.59 | 5,090.30 | 5,281.64 | 82.91 | Zone 4 |
| J22-1175 | 0 | 5,090.43 | 5,281.79 | 82.92 | Zone 4 |
| J-1255 | 3.88 | 5,090.25 | 5,281.67 | 82.94 | Zone 4 |
| J22-1089 | 0 | 5,090.28 | 5,281.78 | 82.98 | Zone 4 |
| J-453 | 7.33 | 5,090.15 | 5,281.70 | 83 | Zone 4 |
| J-23-1213 | 2.59 | 5,090.32 | 5,281.89 | 83.01 | Zone 4 |
| J-199 | 6.03 | 5,089.28 | 5,280.88 | 83.02 | Zone 4 |
| J22-882 | 1.72 | 5,090.19 | 5,281.80 | 83.02 | Zone 4 |
| J-23-1214 | 0.43 | 5,090.30 | 5,281.91 | 83.02 | Zone 4 |
| J-654 | 0 | 5,090.03 | 5,281.71 | 83.05 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| PH22-FH16 | 0 | 5,090.10 | 5,281.79 | 83.06 | Zone 4 |
| J-661 | 3.88 | 5,089.72 | 5,281.70 | 83.18 | Zone 4 |
| FH-914 | 0 | 5,089.29 | 5,281.71 | 83.38 | Zone 4 |
| J-23 | 3.99 | 5,102.29 | 5,294.88 | 83.45 | Zone 1 |
| FH-913 | 0 | 5,089.01 | 5,281.71 | 83.5 | Zone 4 |
| J-594 | 0 | 5,079.25 | 5,272.07 | 83.55 | Zone 1 |
| J-452 | 0 | 5,088.84 | 5,281.72 | 83.58 | Zone 4 |
| J-663 | 0 | 5,088.73 | 5,281.71 | 83.62 | Zone 4 |
| J-673 | 0 | 5,088.69 | 5,281.72 | 83.64 | Zone 4 |
| J-200 | 6.03 | 5,087.30 | 5,280.77 | 83.83 | Zone 4 |
| J-479 | 0 | 5,088.24 | 5,281.76 | 83.85 | Zone 4 |
| J-1256 | 2.59 | 5,087.68 | 5,281.66 | 84.05 | Zone 4 |
| J-150 | 5.99 | 5,066.84 | 5,260.89 | 84.08 | Zone 1 |
| J-324 | 2.15 | 5,087.57 | 5,281.64 | 84.09 | Zone 4 |
| J-449 | 0 | 5,087.47 | 5,281.74 | 84.18 | Zone 4 |
| J-440 | 2.59 | 5,086.88 | 5,281.22 | 84.21 | Zone 4 |
| ELEMSCHO | 9.89 | 5,087.43 | 5,281.78 | 84.21 | Zone 4 |
| J22-1090 | 0 | 5,087.33 | 5,281.78 | 84.26 | Zone 4 |
| J22-1092 | 0 | 5,087.28 | 5,281.78 | 84.28 | Zone 4 |
| H17CSELEM | 0 | 5,087.23 | 5,281.78 | 84.3 | Zone 4 |
| J-28 | 0 | 5,073.11 | 5,268.03 | 84.46 | Zone 1 |
| J-438 | 5.6 | 5,086.25 | 5,281.22 | 84.48 | Zone 4 |
| J-201 | 6.03 | 5,085.59 | 5,280.68 | 84.53 | Zone 4 |
| J-478 | 3.45 | 5,086.54 | 5,281.76 | 84.59 | Zone 4 |
| J-474 | 3.45 | 5,086.26 | 5,281.75 | 84.71 | Zone 4 |
| J-588 | 5.99 | 5,077.31 | 5,272.83 | 84.72 | Zone 1 |
| J-151 | 3.99 | 5,065.12 | 5,260.89 | 84.83 | Zone 1 |
| J-460 | 5.6 | 5,086.01 | 5,281.78 | 84.83 | Zone 4 |
| J-385 | 5.31 | 5,076.49 | 5,272.39 | 84.88 | Zone 1 |
| J-1274 | 0 | 5,085.67 | 5,281.65 | 84.92 | Zone 4 |
| J-202 | 5.17 | 5,084.62 | 5,280.63 | 84.93 | Zone 4 |
| J-591 | 0 | 5,076.59 | 5,272.73 | 84.98 | Zone 1 |
| J-407 | 2.15 | 5,085.64 | 5,281.78 | 84.99 | Zone 4 |
| J-437 | 0 | 5,084.87 | 5,281.15 | 85.05 | Zone 4 |
| J-421 | 0 | 5,085.43 | 5,281.79 | 85.08 | Zone 4 |
| J-249 | 4.74 | 5,120.99 | 5,317.36 | 85.09 | Zone 3 |
| J-423 | 0 | 5,085.17 | 5,281.79 | 85.19 | Zone 4 |
| J22-902 | 4.95 | 5,085.12 | 5,281.78 | 85.21 | Zone 4 |
| J-475 | 3.88 | 5,084.82 | 5,281.77 | 85.34 | Zone 4 |
| J-408 | 5.17 | 5,084.71 | 5,281.78 | 85.39 | Zone 4 |
| J-280 | 3.45 | 5,084.28 | 5,281.62 | 85.51 | Zone 4 |
| J-285 | 5.17 | 5,083.77 | 5,281.14 | 85.52 | Zone 4 |
| J22-1091 | 0 | 5,084.24 | 5,281.78 | 85.6 | Zone 4 |
| J-146 | 0 | 5,119.77 | 5,317.34 | 85.61 | Zone 3 |
| PH22-FH19 | 0 | 5,084.13 | 5,281.78 | 85.64 | Zone 4 |
| J-476 | 3.45 | 5,083.43 | 5,281.78 | 85.94 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-406 | 0 | 5,083.43 | 5,281.78 | 85.94 | Zone 4 |
| J-208 | 4.31 | 5,082.50 | 5,281.01 | 86.02 | Zone 4 |
| J-409 | 2.59 | 5,083.24 | 5,281.78 | 86.03 | Zone 4 |
| J-288 | 0 | 5,082.55 | 5,281.11 | 86.04 | Zone 4 |
| J-323 | 7.96 | 5,083.06 | 5,281.64 | 86.05 | Zone 4 |
| J-282 | 4.74 | 5,082.97 | 5,281.62 | 86.07 | Zone 4 |
| J-439 | 0 | 5,082.00 | 5,281.12 | 86.28 | Zone 4 |
| J-471 | 6.46 | 5,082.54 | 5,281.68 | 86.29 | Zone 4 |
| J-273 | 3.02 | 5,082.46 | 5,281.66 | 86.31 | Zone 4 |
| J-461 | 6.46 | 5,082.44 | 5,281.78 | 86.37 | Zone 4 |
| J-473 | 5.17 | 5,082.14 | 5,281.67 | 86.46 | Zone 4 |
| J-477 | 3.45 | 5,082.15 | 5,281.78 | 86.5 | Zone 4 |
| J-215 | 9.26 | 5,081.17 | 5,280.87 | 86.53 | Zone 4 |
| J-459 | 3.88 | 5,081.68 | 5,281.78 | 86.7 | Zone 4 |
| J-410 | 3.02 | 5,081.37 | 5,281.79 | 86.84 | Zone 4 |
| J-586 | 9.89 | 5,080.67 | 5,281.11 | 86.85 | Zone 4 |
| J-214 | 4.31 | 5,080.16 | 5,280.76 | 86.92 | Zone 4 |
| J-424 | 2.88 | 5,081.15 | 5,281.78 | 86.94 | Zone 4 |
| J-271 | 4.74 | 5,080.96 | 5,281.66 | 86.96 | Zone 4 |
| J-405 | 3.45 | 5,081.06 | 5,281.78 | 86.97 | Zone 4 |
| J-320 | 4.95 | 5,080.78 | 5,281.67 | 87.04 | Zone 4 |
| J-462 | 7.76 | 5,080.60 | 5,281.79 | 87.17 | Zone 4 |
| J-272 | 3.02 | 5,080.44 | 5,281.67 | 87.19 | Zone 4 |
| J-417 | 5.17 | 5,080.47 | 5,281.79 | 87.23 | Zone 4 |
| J-321 | 2.59 | 5,080.22 | 5,281.67 | 87.29 | Zone 4 |
| J-270 | 4.74 | 5,080.13 | 5,281.67 | 87.32 | Zone 4 |
| J-472 | 4.74 | 5,079.93 | 5,281.67 | 87.41 | Zone 4 |
| J-411 | 3.02 | 5,079.96 | 5,281.79 | 87.45 | Zone 4 |
| J-239 | 4.31 | 5,078.79 | 5,280.64 | 87.46 | Zone 4 |
| J-404 | 3.45 | 5,079.68 | 5,281.79 | 87.57 | Zone 4 |
| J-152 | 6.66 | 5,058.73 | 5,260.89 | 87.6 | Zone 1 |
| J-420 | 0 | 5,079.50 | 5,281.79 | 87.65 | Zone 4 |
| J-164 | 9.32 | 5,059.45 | 5,261.85 | 87.7 | Zone 1 |
| J-458 | 4.31 | 5,079.24 | 5,281.78 | 87.76 | Zone 4 |
| J-262 | 0 | 5,078.61 | 5,281.24 | 87.8 | Zone 4 |
| J-470 | 0 | 5,078.94 | 5,281.67 | 87.84 | Zone 4 |
| J-277 | 5.17 | 5,078.88 | 5,281.66 | 87.86 | Zone 4 |
| J-416 | 0 | 5,078.93 | 5,281.79 | 87.9 | Zone 4 |
| J-418 | 4.74 | 5,078.88 | 5,281.79 | 87.92 | Zone 4 |
| J-212 | 3.88 | 5,077.48 | 5,280.50 | 87.97 | Zone 4 |
| J-412 | 3.02 | 5,078.68 | 5,281.79 | 88.01 | Zone 4 |
| J-403 | 3.02 | 5,078.53 | 5,281.79 | 88.07 | Zone 4 |
| J-6 | 5.32 | 5,094.60 | 5,297.86 | 88.08 | Zone 1 |
| J-1242 | 0 | 5,060.56 | 5,263.85 | 88.09 | Zone 1 |
| J-279 | 3.88 | 5,078.05 | 5,281.66 | 88.22 | Zone 4 |
| J-158 | 13.31 | 5,060.32 | 5,263.94 | 88.23 | Zone 1 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-587 | 4.95 | 5,078.13 | 5,281.79 | 88.24 | Zone 4 |
| J-264 | 4.31 | 5,077.35 | 5,281.11 | 88.29 | Zone 4 |
| J-163 | 8.65 | 5,058.71 | 5,262.51 | 88.31 | Zone 1 |
| J-269 | 4.31 | 5,077.78 | 5,281.66 | 88.34 | Zone 4 |
| J-426 | 4.74 | 5,077.65 | 5,281.79 | 88.45 | Zone 4 |
| J-231 | 4.31 | 5,076.71 | 5,280.99 | 88.52 | Zone 4 |
| J-413 | 3.02 | 5,077.49 | 5,281.81 | 88.53 | Zone 4 |
| J-425 | 1.72 | 5,077.39 | 5,281.79 | 88.56 | Zone 4 |
| J-153 | 5.99 | 5,056.40 | 5,260.89 | 88.6 | Zone 1 |
| J-230 | 4.31 | 5,076.30 | 5,280.84 | 88.63 | Zone 4 |
| J-226 | 4.31 | 5,075.95 | 5,280.61 | 88.68 | Zone 4 |
| J-402 | 3.45 | 5,077.13 | 5,281.79 | 88.68 | Zone 4 |
| J-276 | 6.03 | 5,076.67 | 5,281.66 | 88.82 | Zone 4 |
| J-419 | 0 | 5,076.47 | 5,281.80 | 88.97 | Zone 4 |
| J-1230 | 2.66 | 5,058.21 | 5,263.74 | 89.05 | Zone 1 |
| J-236 | 0 | 5,074.42 | 5,280.05 | 89.1 | Zone 4 |
| J-217 | 0 | 5,111.25 | 5,316.89 | 89.1 | Zone 3 |
| J-414 | 0 | 5,076.16 | 5,281.83 | 89.12 | Zone 4 |
| J-228 | 4.31 | 5,075.04 | 5,280.71 | 89.12 | Zone 4 |
| J-436 | 5.6 | 5,075.48 | 5,281.24 | 89.16 | Zone 4 |
| J-297 | 0 | 5,076.00 | 5,281.80 | 89.17 | Zone 4 |
| J-165 | 13.98 | 5,057.28 | 5,263.16 | 89.21 | Zone 1 |
| J-268 | 0 | 5,075.75 | 5,281.66 | 89.22 | Zone 4 |
| J-254 | 3.02 | 5,074.06 | 5,280.13 | 89.29 | Zone 4 |
| J-401 | 3.88 | 5,075.73 | 5,281.81 | 89.29 | Zone 4 |
| J-295 | 5.6 | 5,075.72 | 5,281.80 | 89.29 | Zone 4 |
| J-278 | 5.17 | 5,075.57 | 5,281.66 | 89.3 | Zone 4 |
| J-415 | 0 | 5,075.53 | 5,281.79 | 89.37 | Zone 4 |
| J-296 | 4.74 | 5,075.50 | 5,281.80 | 89.39 | Zone 4 |
| J-315 | 6.03 | 5,075.27 | 5,281.81 | 89.5 | Zone 4 |
| J-267 | 0 | 5,074.88 | 5,281.66 | 89.6 | Zone 4 |
| J-258 | 0 | 5,074.07 | 5,281.12 | 89.71 | Zone 4 |
| J-314 | 0 | 5,074.59 | 5,281.81 | 89.79 | Zone 4 |
| J-154 | 9.3 | 5,053.62 | 5,260.89 | 89.81 | Zone 1 |
| J-400 | 3.45 | 5,074.49 | 5,281.83 | 89.84 | Zone 4 |
| J-294 | 3.88 | 5,074.33 | 5,281.78 | 89.89 | Zone 4 |
| J-303 | 2.15 | 5,074.07 | 5,281.70 | 89.97 | Zone 4 |
| J-316 | 10.12 | 5,074.16 | 5,281.81 | 89.97 | Zone 4 |
| J-1322 | 5.32 | 5,055.28 | 5,262.94 | 89.98 | Zone 1 |
| J-1231 | 5.32 | 5,055.87 | 5,263.62 | 90.02 | Zone 1 |
| J-435 | 0 | 5,073.19 | 5,280.96 | 90.03 | Zone 4 |
| J-312 | 6.03 | 5,073.95 | 5,281.82 | 90.07 | Zone 4 |
| J-137 | 4.74 | 5,108.67 | 5,316.64 | 90.11 | Zone 3 |
| J-1234 | 0 | 5,054.94 | 5,262.93 | 90.12 | Zone 1 |
| J-233 | 4.95 | 5,072.79 | 5,280.99 | 90.21 | Zone 4 |
| J-229 | 0 | 5,072.55 | 5,280.84 | 90.25 | Zone 4 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|--------|--------------|----------------|-----------|----------------|--------|
| J-225 | 0 | 5,072.30 | 5,280.61 | 90.26 | Zone 4 |
| J-257 | 0 | 5,072.91 | 5,281.24 | 90.27 | Zone 4 |
| J-265 | 0 | 5,073.11 | 5,281.66 | 90.36 | Zone 4 |
| J-308 | 6.9 | 5,073.29 | 5,281.85 | 90.37 | Zone 4 |
| J-260 | 2.59 | 5,072.80 | 5,281.44 | 90.41 | Zone 4 |
| J-298 | 0 | 5,073.16 | 5,281.83 | 90.42 | Zone 4 |
| J-266 | 3.88 | 5,072.93 | 5,281.70 | 90.46 | Zone 4 |
| J-227 | 0 | 5,071.72 | 5,280.71 | 90.55 | Zone 4 |
| J-344 | 0 | 5,050.64 | 5,259.70 | 90.59 | Zone 1 |
| J-313 | 5.17 | 5,072.76 | 5,281.83 | 90.59 | Zone 4 |
| J-155 | 5.32 | 5,051.81 | 5,260.89 | 90.59 | Zone 1 |
| J-218 | 0 | 5,071.17 | 5,280.49 | 90.7 | Zone 4 |
| J-310 | 6.03 | 5,072.34 | 5,281.85 | 90.78 | Zone 4 |
| J-309 | 4.31 | 5,072.32 | 5,281.85 | 90.79 | Zone 4 |
| J-36 | 0 | 5,051.03 | 5,260.57 | 90.79 | Zone 1 |
| J-259 | 2.59 | 5,072.01 | 5,281.64 | 90.83 | Zone 4 |
| J-289 | 5.32 | 5,087.80 | 5,297.57 | 90.89 | Zone 1 |
| J-300 | 3.45 | 5,071.64 | 5,281.85 | 91.08 | Zone 4 |
| J-256 | 0 | 5,071.23 | 5,281.44 | 91.09 | Zone 4 |
| J-246 | 0 | 5,071.29 | 5,281.64 | 91.14 | Zone 4 |
| J-263 | 9.55 | 5,070.85 | 5,281.24 | 91.16 | Zone 4 |
| J-311 | 0 | 5,071.43 | 5,281.85 | 91.17 | Zone 4 |
| J-261 | 2.15 | 5,069.91 | 5,281.44 | 91.66 | Zone 4 |
| J-307 | 6.03 | 5,070.23 | 5,281.87 | 91.7 | Zone 4 |
| J-319 | 4.95 | 5,070.24 | 5,281.91 | 91.72 | Zone 4 |
| J-219 | 3.88 | 5,068.69 | 5,280.56 | 91.8 | Zone 4 |
| J-302 | 4.31 | 5,069.92 | 5,281.89 | 91.85 | Zone 4 |
| J-318 | 0 | 5,069.77 | 5,281.90 | 91.91 | Zone 4 |
| J-611 | 4.66 | 5,049.06 | 5,261.57 | 92.08 | Zone 1 |
| J-251 | 8.62 | 5,069.14 | 5,281.84 | 92.16 | Zone 4 |
| J-252 | 4.95 | 5,069.06 | 5,282.00 | 92.27 | Zone 4 |
| J-223 | 4.31 | 5,067.34 | 5,280.78 | 92.48 | Zone 4 |
| J-238 | 4.31 | 5,067.17 | 5,280.76 | 92.55 | Zone 4 |
| J-136 | 12.5 | 5,100.47 | 5,314.07 | 92.55 | Zone 3 |
| J-250 | 4.74 | 5,067.75 | 5,281.74 | 92.72 | Zone 4 |
| J-1233 | 6.66 | 5,049.11 | 5,263.16 | 92.75 | Zone 1 |
| J-247 | 10.77 | 5,067.68 | 5,281.94 | 92.84 | Zone 4 |
| J-612 | 7.09 | 5,047.26 | 5,261.57 | 92.86 | Zone 1 |
| J-1232 | 5.32 | 5,048.93 | 5,263.37 | 92.92 | Zone 1 |
| J-220 | 4.31 | 5,066.08 | 5,280.62 | 92.96 | Zone 4 |
| J-221 | 4.31 | 5,066.06 | 5,280.70 | 93 | Zone 4 |
| J-135 | 14.65 | 5,097.88 | 5,314.16 | 93.71 | Zone 3 |
| J-1236 | 2.66 | 5,046.50 | 5,263.37 | 93.97 | Zone 1 |
| J-305 | 5.32 | 5,077.07 | 5,296.56 | 95.11 | Zone 1 |
| J-608 | 0 | 5,064.05 | 5,285.12 | 95.79 | Zone 4 |
| J-49 | 9.98 | 5,042.76 | 5,265.26 | 96.41 | Zone 1 |

GBWC-CSD Preferred MDD w/ Fire at Gomes Elementary (Tank 2 Off)
Distribution System Junction Report

| ID | Demand (gpm) | Elevation (ft) | Head (ft) | Pressure (psi) | Zone |
|-----------|--------------|----------------|-----------|----------------|--------|
| J-48 | 9.98 | 5,042.96 | 5,265.59 | 96.47 | Zone 1 |
| J-47 | 7.99 | 5,043.03 | 5,266.14 | 96.67 | Zone 1 |
| J-304 | 5.32 | 5,072.38 | 5,296.56 | 97.14 | Zone 1 |
| J-35 | 7.32 | 5,040.53 | 5,267.56 | 98.37 | Zone 1 |
| J-350 | 0 | 5,041.15 | 5,269.68 | 99.02 | Zone 1 |
| J-1252IRR | 8.4 | 5,040.67 | 5,269.62 | 99.2 | Zone 1 |
| FH-801 | 0 | 5,040.29 | 5,269.68 | 99.4 | Zone 1 |
| J-706 | 0 | 5,040.13 | 5,269.68 | 99.47 | Zone 1 |
| J-14 | 0 | 5,039.76 | 5,269.68 | 99.63 | Zone 1 |
| J-13 | 5.31 | 5,039.32 | 5,269.68 | 99.82 | Zone 1 |
| J-12 | 0 | 5,037.80 | 5,278.20 | 104.16 | Zone 1 |
| J-10 | 5.32 | 5,052.43 | 5,294.28 | 104.8 | Zone 1 |
| J-8 | 5.32 | 5,054.92 | 5,297.64 | 105.17 | Zone 1 |
| J-795 | 0 | 5,044.75 | 5,289.87 | 106.21 | Zone 4 |
| J-609 | 0 | 5,044.63 | 5,289.77 | 106.22 | Zone 4 |
| J-9 | 5.32 | 5,049.50 | 5,295.46 | 106.58 | Zone 1 |
| J-827 | 0 | 5,042.00 | 5,290.52 | 107.69 | Zone 4 |
| J-828 | 0 | 5,041.01 | 5,291.31 | 108.45 | Zone 4 |
| J-826 | 0 | 5,040.97 | 5,291.56 | 108.58 | Zone 4 |
| J-11 | 0 | 5,034.44 | 5,287.78 | 109.77 | Zone 1 |

ATTACHMENT 3

NAC Storage and Capacity Analysis for Pressure Zones 1, 3, and 4

| Pressure Zone 1 Existing Conditions (as of 2022) | | | |
|---|-----------|---|---------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 669,200 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 285,963 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 285,963 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 285,963 |
| Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 | Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 1,135,163 | Required Storage (gal) NAC 445A.6674.1.(b) | 751,925 |
| Available System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 1 (gal) NAC 445A.6644 | 429,510 | Tank 1 (gal) NAC 445A.6644 | 429,510 |
| Well 6 (gal) NAC 445A.6554 | 532,800 | Well 6 (gal) NAC 445A.6554 | 532,800 |
| Well 7 (gal) NAC 445A.6554 | 475,200 | Well 7 (gal) NAC 445A.6554 | 475,200 |
| Total Capacity (gal) <i>All Wells in Service</i> NAC 445A.6672.3.(a) | 1,437,510 | Total Capacity (gal) <i>Largest Producer Out of Service</i> NAC 445A.6672.3.(b) | 904,710 |
| Total Storage Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 1,135,163 | Required Storage (gal) NAC 445A.6672.3 | 751,925 |
| Total Capacity (gal) | 1,437,510 | Total Capacity (gal) | 904,710 |
| Difference (gal) | 302,347 | Difference (gal) | 152,785 |
| Meets NAC Requirements? | YES | Meets NAC Requirements? | YES |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A |
| Which Pressure Zones can contribute flow? | None | Which Pressure Zones can contribute flow? | None |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | N/A | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | N/A |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | N/A | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | N/A |
| Meets NAC Requirements with contributing Zones? | N/A | Meets NAC Requirements with contributing Zones? | N/A |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

1. Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.

2. Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B, required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.

3. Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).

4. Emergency reserve is defined as one day of ADD.

5. Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.

6. Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

| Pressure Zone 1 Projected Conditions (as of 2044) | | | |
|---|-----------|---|---------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 773,526 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 330,543 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 330,543 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 330,543 |
| Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 | Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 1,284,068 | Required Storage (gal) NAC 445A.6674.1.(b) | 841,086 |
| System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 1 (gal) NAC 445A.6644 | 429,510 | Tank 1 (gal) NAC 445A.6644 | 429,510 |
| Well 6 (gal) NAC 445A.6554 | 532,800 | Well 6 (gal) NAC 445A.6554 | 532,800 |
| Well 7 (gal) NAC 445A.6554 | 475,200 | Well 7 (gal) NAC 445A.6554 | 475,200 |
| Total Capacity (gal) <i>All Wells in Service</i> | 1,437,510 | Total Capacity (gal) <i>Largest Producer Out of Service</i> | 904,710 |
| Storage/Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 1,284,068 | Required Storage (gal) NAC 445A.6672.3 | 841,086 |
| Total Capacity (gal) | 1,437,510 | Total Capacity (gal) | 904,710 |
| Difference (gal) | 153,441 | Difference (gal) | 63,624 |
| Meets NAC Requirements? | YES | Meets NAC Requirements? | YES |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A |
| Which Pressure Zones can contribute flow? | None | Which Pressure Zones can contribute flow? | None |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | N/A | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | N/A |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | N/A | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | N/A |
| Meets NAC Requirements with contributing Zones? | N/A | Meets NAC Requirements with contributing Zones? | N/A |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

1. Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.

2. Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.

3. Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).

4. Emergency reserve is defined as one day of ADD.

5. Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.

6. Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

| Pressure Zone 3 Existing Conditions (as of 2022) | | | |
|---|---------|---|---------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 114,459 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 52,396 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 52,396 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 52,396 |
| Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 | Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 346,855 | Required Storage (gal) NAC 445A.6674.1.(b) | 284,792 |
| System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 3 (gal) NAC 445A.6644 | 346,585 | Tank 3 (gal) NAC 445A.6644 | 346,585 |
| Total Capacity (gal) <i>All Wells in Service</i> | 346,585 | Total Capacity (gal) <i>Largest Producer Out of Service</i> | 346,585 |
| Storage/Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 346,855 | Required Storage (gal) NAC 445A.6672.3 | 284,792 |
| Total Capacity (gal) | 346,585 | Total Capacity (gal) | 346,585 |
| Difference (gal) | -270 | Difference (gal) | 61,792 |
| Meets NAC Requirements? | NO | Meets NAC Requirements? | YES |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | YES | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A |
| Which Pressure Zones can contribute flow? | 4 | Which Pressure Zones can contribute flow? | 4 |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | 318,231 | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | - |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | 317,961 | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - |
| Meets NAC Requirements with contributing Zones? | YES | Meets NAC Requirements with contributing Zones? | N/A |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

1. Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.

2. Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B, required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.

3. Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).

4. Emergency reserve is defined as one day of ADD.

5. Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.

6. Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

| Pressure Zone 3 Projected Conditions (as of 2044) | | | |
|---|---------|---|---------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 114,459 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 52,396 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 52,396 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 52,396 |
| Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 | Fire Flow (gal) <i>1,500 gpm for 2 hours for Zone 1</i> NAC 445A.6674.2 | 180,000 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 346,855 | Required Storage (gal) NAC 445A.6674.1.(b) | 284,792 |
| System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 3 (gal) NAC 445A.6644 | 346,585 | Tank 3 (gal) NAC 445A.6644 | 346,585 |
| Total Capacity (gal) <i>All Wells in Service</i> | 346,585 | Total Capacity (gal) <i>Largest Producer Out of Service</i> | 346,585 |
| Storage/Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 346,855 | Required Storage (gal) NAC 445A.6672.3 | 284,792 |
| Total Capacity (gal) | 346,585 | Total Capacity (gal) | 346,585 |
| Difference (gal) | -270 | Difference (gal) | 61,792 |
| Meets NAC Requirements? | NO | Meets NAC Requirements? | YES |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | YES | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A |
| Which Pressure Zones can contribute flow? | 4 | Which Pressure Zones can contribute flow? | 4 |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | 116,725 | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | - |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | 116,455 | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - |
| Meets NAC Requirements with contributing Zones? | YES | Meets NAC Requirements with contributing Zones? | N/A |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

1. Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.

2. Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B, required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.

3. Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).

4. Emergency reserve is defined as one day of ADD.

5. Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.

6. Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

| Pressure Zone 4 Existing Conditions (as of 2022) | | | |
|---|-----------|---|-----------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 1,487,318 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 680,856 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 680,856 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 680,856 |
| Fire Flow (gal) <i>3,125 gpm for 3 hours for Zone 4</i> NAC 445A.6674.2 | 562,500 | Fire Flow (gal) <i>3,125 gpm for 3 hours for Zone 4</i> NAC 445A.6674.2 | 562,500 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 2,730,674 | Required Storage (gal) NAC 445A.6674.1.(b) | 1,924,211 |
| System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 4 (gal) NAC 445A.6644 | 1,090,505 | Tank 4 (gal) NAC 445A.6644 | 1,090,505 |
| Well 1 (gal) NAC 445A.6554 | 763,200 | Well 1 (gal) NAC 445A.6554 | 763,200 |
| Well 8 (gal) NAC 445A.6554 | 1,195,200 | Well 8 (gal) NAC 445A.6554 | 1,195,200 |
| Total Capacity (gal) <i>All Wells in Service</i> | 3,048,905 | Total Capacity (gal) <i>Largest Producer Out of Service</i> | 1,853,705 |
| Storage/Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 2,730,674 | Required Storage (gal) NAC 445A.6672.3 | 1,924,211 |
| Total Capacity (gal) | 3,048,905 | Total Capacity (gal) | 1,853,705 |
| Difference (gal) | 318,231 | Difference (gal) | -70,507 |
| Meets NAC Requirements? | YES | Meets NAC Requirements? | NO |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | NO |
| Which Pressure Zones can contribute flow? | None | Which Pressure Zones can contribute flow? | None |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | - | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | - |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - |
| Meets NAC Requirements with contributing Zones? | N/A | Meets NAC Requirements with contributing Zones? | NO |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

- Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.
- Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B, required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.
- Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).
- Emergency reserve is defined as one day of ADD.
- Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.
- Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

| Pressure Zone 4 Projected Conditions (as of 2044) | | | |
|---|-----------|---|-----------|
| Required System Storage Capacity NAC 445A.6672.3 | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Operating Storage ⁽³⁾ (gal) <i>Assumed to be MDD for Scenario A</i> NAC 445A.66745.1 | 1,625,546 | Operating Storage ⁽³⁾ (gal) <i>Assumed to be ADD for Scenario B</i> NAC 445A.66745.1 | 744,133 |
| Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 744,133 | Emergency Reserve ⁽⁴⁾ (gal) <i>Assumed to be ADD for both Scenarios</i> NAC 445A.6675.1 | 744,133 |
| Fire Flow (gal) <i>3,125 gpm for 3 hours for Zone 4</i> NAC 445A.6674.2 | 562,500 | Fire Flow (gal) <i>3,125 gpm for 3 hours for Zone 4</i> NAC 445A.6674.2 | 562,500 |
| Required Storage (gal) NAC 445A.6674.1.(b) | 2,932,179 | Required Storage (gal) NAC 445A.6674.1.(b) | 2,050,766 |
| System Storage Capacity | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Tank 4 (gal) NAC 445A.6644 | 1,090,505 | Tank 4 (gal) NAC 445A.6644 | 1,090,505 |
| Well 1 (gal) NAC 445A.6554 | 763,200 | Well 1 (gal) NAC 445A.6554 | 763,200 |
| Well 8 (gal) NAC 445A.6554 | 1,195,200 | Well 8 (gal) NAC 445A.6554 | 1,195,200 |
| Total Capacity (gal) <i>All Wells in Service</i> | 3,048,905 | Total Capacity (gal) <i>Largest Producer Out of Service</i> | 1,853,705 |
| Storage/Capacity Comparison | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| Required Storage (gal) NAC 445A.6672.3 | 2,932,179 | Required Storage (gal) NAC 445A.6672.3 | 2,050,766 |
| Total Capacity (gal) | 3,048,905 | Total Capacity (gal) | 1,853,705 |
| Difference (gal) | 116,725 | Difference (gal) | -197,061 |
| Meets NAC Requirements? | YES | Meets NAC Requirements? | NO |
| Inter-Zone Analysis, If Applicable | | | |
| Scenario A ⁽¹⁾ = MDD + FF NAC 445A.6672.3.(a) | | Scenario B ⁽²⁾ = ADD + FF - Well (Largest Producer) NAC 445A.6672.3.(b) | |
| If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | N/A | If NAC Requirements within Pressure Zone are not met, can other Zones contribute flow into this Zone? NAC 445A.6674.3 | NO |
| Which Pressure Zones can contribute flow? | None | Which Pressure Zones can contribute flow? | None |
| Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁵⁾ (gal) | - | Total excess capacity under this scenario available to this Pressure Zone from other Zones ⁽⁶⁾ (gal) | - |
| Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - | Total Storage Capacity of this Pressure Zone with excess capacity from other zones (gal) | - |
| Meets NAC Requirements with contributing Zones? | N/A | Meets NAC Requirements with contributing Zones? | NO |
| Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A | Does modeling confirm that connected zones can contribute excess capacity while maintaining pressures and velocities within NAC requirements? | N/A |

- Scenario A is described in NAC 445A.6672.3.(a) and is a required storage analysis for well-reliant systems. In Scenario A, required storage is defined as one day of MDD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service.
- Scenario B is described in NAC 445A.6672.3.(b) and is a required storage analysis for well-reliant systems. In Scenario B, required storage is defined as one day of ADD (see note 3), emergency reserve (see note 4), and the most extreme fire flow/demand required in the system area. The system capacity includes any storage tanks and all wells in service except for the largest-producing well.
- Projected ADD was determined through analysis of 2022 meter data provided by GBWC and population projections (determined in previous sections). The ADD was increased by 5.1% to account for system losses (determined in previous sections). MDD was determined by applied the MDD/ADD factor of 2.34 (determined in previous sections).
- Emergency reserve is defined as one day of ADD.
- Excess capacity for Scenario A is defined as the difference between the Required Storage and Total Capacity under MDD conditions.
- Excess capacity for Scenario B is defined as the difference between the Required Storage and Total Capacity under ADD conditions. It is assumed that the largest producing well is only offline for the Pressure Zone being analyzed, and all contributing Zones have all facilities functioning.

NDEP Interpretation of NAC 445A Capacity Requirements

Mara Quiroga, P.E.

From: Brendon Grant <bgrant@ndep.nv.gov>
Sent: Wednesday, November 22, 2023 11:05 AM
To: Mike Hardy, P.E., PG, WRS
Cc: James T. Eason; Sean Ashcraft (sean.ashcraft@greatbasinwaterco.com); Cynthia Turiczek; Adam Roney; Shaun Richardson; Mike Hardy, P.E., PG, WRS; Kelly, David A
Subject: RE: NDEP Follow Up

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Good morning,

An existing water system with more than one pressure zone is viewed holistically as one water system; however, each pressure zone acts like its own individual system (well, tank, booster pump, chlorinator, etc.). Each pressure zone shall meet its own total capacity requirements before any excess water is transferred to a pressure zone that lacks total capacity. As long as there is an alternative power source at the well and/or booster pump facility in the pressure zone with excess total capacity, the excess total capacity can be used to augment the total capacity requirements of a pressure zone that lacks total capacity. Below are various NAC 445A regulations regarding capacity requirements with BSDW's interpretation.

- *NAC 445A.6672 Existing systems: Minimum capacities; minimum pressure and velocity of water; total capacity of groundwater system; timely completion of water projects. (NRS 445A.860) A supplier of water for an existing public water system shall:*

1. *Ensure that the public water system maintains a sufficient capacity for the development and treatment of water, and a storage capacity of sufficient quantity, to satisfy the requirements of all users of the public water system under the conditions of maximum day demand and peak hour demand.*

...

3. *If the public water system relies exclusively on water wells as its source of water, ensure that the **total capacity** of the system is sufficient to meet:*

- (a) *The maximum day demand, fire flow and fire demand when all the facilities of the system are functioning; or*
- (b) *The average day demand, fire flow and fire demand when the most productive well of the system is not functioning,*

- *whichever is greater. When computing total capacity for this purpose, credit must be given for any storage capacity.*

...

If a water system, like all of Great Basin Water Company's water systems throughout Nevada, relies on groundwater, then the total capacity shall be sufficient to meet the MDD and Fire Demand when all the facilities (wells, booster pump stations, and storage tanks) are functioning; or meet the ADD and fire demand when the most productive well is not functioning. The scenario with the greatest demand will need to be compared against the total capacity of the system. The total capacity shall be greater than the demand. If there is more than one pressure zone, this calculation needs to be performed for each pressure zone.

- *NAC 445A.66725 Existing systems: Determination of total capacity preparation, maintenance and dissemination of certain information, analyses, plans and reports. (NRS 445A.860) A supplier of water for an existing public water system shall:*

1. *Determine the total capacity of the public water system through engineering analyses that use historical data or other guidelines or parameters accepted by the engineering profession and, upon request, submit documentation of that capacity to the Division or the appropriate district board of health. When analyzing the*

total capacity of the public water system with regard to requirements for maximum day demand, only the alternative pumping capacity and the storage capacity of the public water system may be considered as sources of supply.

...

Alternative pumping capacity is defined in NAC 445A.6554. Wells equipped with a backup power supply, and booster pump stations with a backup power supply that pump water from a lower pressure zone to a higher pressure zone to meet demands, are considered alternative pumping capacity. Wells and booster pump stations without a backup power supply cannot be used to calculate the total capacity that is to be compared against MDD.

- **NAC 445A.6674 Storage capacity. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *A supplier of water shall ensure that:*
 - (a) *An existing public water system maintains a storage capacity that, as determined by an engineer on the basis of historical data, accepted engineering judgment and a network hydraulic analysis, is sufficient to ensure that the total capacity of the public water system will meet current and anticipated demands for water while maintaining the pressures indicated in NAC 445A.6711.*
 - (b) *A new public water system maintains a storage capacity that is sufficient to provide the amount of water required for sufficient **operating storage, emergency reserve and fire demand**.*
 2. *Storage requirements for fire demand must be calculated according to the requirements of the fire authority. The Division or the appropriate district board of health shall evaluate the design of a public water system based upon appropriate documentation of those requirements.*
 3. *A supplier of water for an existing public water system shall ensure that the total storage capacity and capacity of booster pumps for each zone of pressure in the distribution system are sufficient to meet the maximum day demand within that zone. Water stored in a higher zone of pressure may be provided to serve a lower zone of pressure if:*
 - (a) *An appropriate pressure regulator is installed between the zones; and*
 - (b) *The requirements for the higher zone of pressure are not compromised.*

If an existing water system has more than one pressure zone, there shall be sufficient storage (operating, fire, and emergency) to meet current and anticipated demands in each zone. If it is determined that a higher pressure zone has excess total storage capacity, then the excess storage can be transferred to a lower zone to augment its total storage capacity. The same can be said about a lower zone supplying excess total storage capacity to a higher zone via a booster pump station; however, this scenario would only be allowed if the booster pump station is equipped with an emergency source of power. Note that operating storage, emergency reserve, and fire demand are defined in NAC 445A.6617, NAC 445A.65885, NAC 445A.65935, respectively.

- **NAC 445A.66745 Operating storage. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *An existing public water system must maintain an operating storage in such an amount as an engineer determines, based upon historical data and the system's capacity for the development and treatment of water, to be sufficient for the system to meet requirements for maximum day demand.*

...

If an existing water system has more than one pressure zone, the engineer and water system shall determine how much operating storage is available to meet the MDD for each pressure zone.

- **NAC 445A.6675 Emergency reserve. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *An existing public water system must maintain an emergency reserve in such an amount as an engineer determines appropriate on the basis of the best available local information.*

...

If an existing water system has more than one pressure zone, the engineer and water system shall determine an appropriate amount of emergency reserve available for each pressure zone. Examples of an emergency are line breaks and temporary failure of a pumping facility.

- *NAC 445A.66755 Existing systems: Exemption from storage requirements. (NRS 445A.860) An existing public water system is not required to comply with the requirements of NAC 445A.6674, 445A.66745 and 445A.6675 if the system has a sufficient alternative pumping capacity to meet requirements for maximum day demand, peak hour demand and fire flow.*

If an existing system has sufficient alternative pumping capacity (well or booster pump station with backup power supply), to meet MDD, PHD, and fire flow, then the requirements outlined in NAC 445A.6674, NAC 445A.66745, and NAC 445A.66755 are not required to be met.

Please let me know if you have any questions or comments.




Brendon Grant, P.E.
Engineering Branch Supervisor
Bureau of Safe Drinking Water
Nevada Division of Environmental Protection
Department of Conservation and Natural Resources
901 S. Stewart Street, Suite 4001
Carson City, NV 89701
(O) 775 687-9524



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Fire Flow Requirements for Nancy Gomes Elementary School



February 26, 2021

Jorge (Eddy) Chacon, Asst. Director of Planning & Design
Washoe County School District
14101 Old Virginia Rd.
Reno, NV 89521
775.789.3819

Re: Revised Fire Flow Requirements for Nancy Gomes ES, 3870 Limkin St, Reno, NV 89508

Mr. Chacon:

We received your request to reduce the original Fire Flow Requirements for Nancy Gomes Elementary School located at 3870 Limkin St, Reno, NV 89508. The property has two buildings; the original building (approximately 20,605 square feet), built in 1980, and the additional building (approximately 20,501 square feet), built in 1988, for a total building area of approximately 41,106 square feet. You have stated that both buildings are equipped throughout with approved automatic sprinkler systems.

At your request, Cody R. Black, P.E. of Shaw Engineering performed a comparative analysis of the original construction type classifications assigned to these buildings under the code of record at the times of construction and how those types correlate to the 2018 International Building Code (IBC). Mr. Black's analysis is that both buildings would be classified by the 2018 IBC as Type IIIB if constructed today.

I accept Mr. Black's analysis that these buildings meet or comply with the 2018 IBC for Type IIIB construction. Based on the analysis provided by Mr. Black and in accordance with the 2018 International Fire Code, Appendix B, Section B103.1 Decreases, the minimum required Fire Flow for these buildings is 2,125 GPM for 2 hours in accordance with the 2018 IFC, Appendix B, Table B105.1(2) as adopted and amended by TMFPD.


Dale Way, Deputy Fire Chief

Attachment: Email thread with analysis

Way, Dale

From: Chacon, Jorge <JChacon@WashoeSchools.net>
Sent: Wednesday, February 24, 2021 9:34 AM
To: Way, Dale
Cc: Lemon, Brittany; Golden, Teresa; Cody Black (Cody@shawengineering.com); Ehlers, Tasha
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

[**NOTICE:** This message originated outside of Washoe County -- **DO NOT CLICK** on links or open **attachments** unless you are sure the content is safe.]

Dale,

Yes the information is correct.

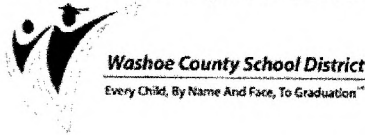
Would you be able to provide a letter to Washoe County School District stating that Gomes ES is a fully sprinklered Type IIIB building and does meet the requirement of the Fire Flow of 2,125 GPM for 2 hours in accordance with the 2018 IFC as adopted and amended by TMFPD.

Great Basin Water is requiring that we get this letter from TMFPD.

Thank you for all your assistance

Eddy Chacon

Assistant Director of Planning & Design
Washoe County School District
775.789.3819 office | 775.772.8939 cell



From: Way, Dale <DWay@tmfpd.us>
Sent: Wednesday, February 24, 2021 9:22 AM
To: Chacon, Jorge <JChacon@WashoeSchools.net>
Cc: Lemon, Brittany <BLemon@tmfpd.us>; Golden, Teresa <Teresa.Golden@WashoeSchools.net>; Cody Black (Cody@shawengineering.com) <Cody@shawengineering.com>; Ehlers, Tasha <TEhlers@washoeschools.net>
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

Eddy,

I can accept Mr. Black's opinion that the building meets or complies with the 2018 IBC for Type IIIB construction.

The plans you sent showed the initial building as approximately 20,605 square feet with an approximately 20,501 square foot addition in 1988 for a total of 41,106 square feet.

If all of this information is correct, a fully sprinklered Type IIIB building of this size would require a Fire Flow of 2,125 GPM for 2 hours in accordance with the 2018 IFC as adopted and amended by TMFPD.

Thank you.

Respectfully,

Dale Way

Deputy Fire Chief -- Fire Prevention | Truckee Meadows Fire & Rescue
dway@tmfpd.us | Office: 775.326.6000
3663 Barron Wy, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"

From: Chacon, Jorge <JChacon@WashoeSchools.net>
Sent: Tuesday, February 23, 2021 1:16 PM
To: Way, Dale <DWay@tmfpd.us>; Ehlers, Tasha <TEhlers@washoeschools.net>
Cc: Lemon, Brittany <BLemon@tmfpd.us>; Golden, Teresa <Teresa.Golden@WashoeSchools.net>; Cody Black <Cody@shawengineering.com> <Cody@shawengineering.com>
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

[NOTICE: This message originated outside of Washoe County -- **DO NOT CLICK** on links or open attachments unless you are sure the content is safe.]

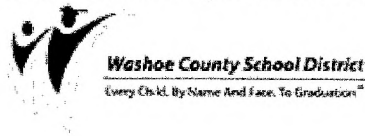
Dale,

Had Cody Black look into your request. Please see entire response below. Let me know if there is anything else you will need.

Thanks,

Eddy Chacon

Assistant Director of Planning & Design
Washoe County School District
775.789.3819 office | 775.772.8939 cell



1980 construction Type IV – Assume 1979 UBC

This is a clip from the 1979 code. This shows Type IV having exterior walls with a 4-hour rating. Makes sense for 8" thick CMU walls... not sure how the HT designation fits in...

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TABLE NO. 17-A—TYPES OF CONSTRUCTION—FIRE-RESISTIVE REQUIREMENTS
(In Hours)
For Details see Chapters under Occupancy and Types of Construction and for Exceptions see Section 1705.

| BUILDING ELEMENT | TYPE I | TYPE II | | | TYPE III | | TYPE IV | TYPE V | |
|-------------------------------|----------------------------------|--------------------------|----------------------|---------|--------------------------|--------------------------|--------------------------|----------------------|----------------------|
| | NONCOMBUSTIBLE | | | | COMBUSTIBLE | | | | |
| | Fire-Resistive | Fire-Resistive | 1-Hr. | N | 1-Hr. | N | H.T. | 1-Hr. | N |
| Exterior Bearing Walls | ⁴ Sec. 1803 (a) | ⁴ 1903 (a) | 1 | N | ⁴ 2003 (a) | ⁴ 2003 (a) | ⁴ 2103 (a) | 1 | N |
| Interior Bearing Walls | 3 | 2 | 1 | N | 1 | N | 1 | 1 | N |
| Exterior Nonbearing Walls | ⁴ Sec. 1803 (a) | ⁴ 1903 (a) | 1 | N | ⁴ 2003 (a) | ⁴ 2003 (a) | ⁴ 2103 (a) | 1 | N |
| Structural Frame ¹ | 3 | 2 | 1 | N | 1 | N | 1 or H.T. | 1 | N |
| Partitions — Permanent | 1 ² | 1 ² | 1 ² | N | 1 | N | 1 or H.T. | 1 | N |
| Shaft Enclosures | 2 | 2 | 1 | 1 | 1 | 1 | 1 | ¹ 1706 | ¹ 1706 |
| Floors | 2 | 2 | 1 | N | 1 | N | H.T. | 1 | N |
| Roofs | ² Sec. 1806 | ¹ 1906 | ¹ 1906 | N | 1 | N | H.T. | 1 | N |
| Exterior Doors and Windows | Sec. 1803 (h) | 1903 (h) | 1903 (b) | 1903(b) | 2003 (b) | 2003 (b) | 2103 (b) | 2203 | 2203 |

N—No general requirements for fire resistance. H.T.—Heavy Timber.

¹Structural frame elements in the exterior wall shall be protected against external fire exposure as required for exterior bearing walls or the structural frame, whichever is greater.

²Fire-retardant treated wood (see Section 407) may be used in the assembly, provided fire-resistance requirements are maintained. See Sections 1801 and 1901, respectively.

Chapter 21

TYPE IV BUILDINGS

Definition

Sec. 2101. Structural elements of Type IV buildings may be of any materials permitted by this code.

Type IV construction shall conform to Section 2106 except that permanent partitions and members of the structural frame may be of other materials, provided they have a fire resistance of not less than one hour.

Structural Framework

Sec. 2102. Structural framework shall be of steel or iron as specified in Chapter 27, concrete as in Chapter 26, masonry as in Chapter 24, or wood as in Chapter 25 and this chapter.

Exterior Walls, Openings and Partitions

Sec. 2103. (a) Exterior Walls. Exterior walls shall be constructed of noncombustible materials and shall comply with the fire-resistive requirements set forth in Section 504 and Table No. 17-A.

EXCEPTIONS: 1. Nonbearing walls fronting on streets, or yards having a width of at least 40 feet may be unprotected when entirely of noncombustible material.

2. In other than Groups H and I Occupancies exterior nonbearing walls may be noncombustible one-hour fire resistive where unprotected openings are permitted and noncombustible two-hour fire resistive where protection of openings is required.

3. In Groups R, Division 1, and B Occupancies exterior noncombustible bearing walls may be two-hour fire resistive where openings are permitted.

4. Approved fire-retardant treated wood framing may be used within the assembly of exterior walls as permitted by Exceptions 1, 2 and 3, provided the required fire resistance is maintained and the exposed outer and inner faces of such walls are noncombustible.

5. Wood columns and arches conforming to heavy timber sizes may be used externally where exterior walls are permitted to be unprotected, noncombustible construction or where one-hour fire-resistive noncombustible exterior walls are permitted.

(b) Openings in Walls. Openings in exterior walls shall conform to the requirements of Section 504 (b) and shall be protected by a fire assembly having a three-fourths-hour fire-resistive rating when they are less than 20 feet from an adjacent property line or the center line of a street or public space.

No openings shall be permitted in exterior walls of Groups A, E, I, H and B, Divisions 1, 2 and 3 Occupancies less than 5 feet from the property line and no openings in Groups B, Division 4, R and M Occupancies less than 3 feet from the property line.

(c) Partitions. Bearing partitions, when constructed of wood, shall not support more than two floors and a roof.

Stair Construction

Sec. 2104. Stairs shall be constructed as specified in Section 2106.

In buildings more than three stories in height, stairs shall be constructed as required for Type I buildings.

Stairs shall comply with the requirements of Chapter 33.

Roofs

Sec. 2105. Roof coverings shall be as specified in Chapter 32 and Section 1704.

Heavy Timber Construction

Sec. 2106. (a) General. Details of heavy timber construction shall be in accordance with the provisions of this section. Unless otherwise specified, all dimensions are nominal as defined in Section 2502.

(b) Columns. Wood columns may be of sawn timber or structural glued-laminated timber not less than 8 inches in any dimension when supporting roof or floor loads except as specified in Section 2106 (d).

Columns shall be continuous or superimposed and connected in an approved manner.

(c) Floor Framing. Beams and girders may be of sawn timber or structural glued-laminated timber and shall be not less than 6 inches in width and not less than 10 inches in depth.

Framed sawn timber or structural glued-laminated timber arches, which spring from the floor line and support floor loads, shall be not less than 8 inches in any dimension.

Framed lumber or structural glued-laminated timber trusses supporting floor loads shall have members of not less than 8 inches in any dimension.

(d) Roof Framing. Framed sawn timber arches or structural glued-laminated timber arches for roof construction, which spring from the floor line and do not support floor loads, shall have members not less than 6 inches in width and not less than 8 inches in depth for the lower half of the height and not less than 6 inches in depth for the upper half.

Framed sawn timber or structural glued-laminated timber arches for roof construction which spring from the top of walls or wall abutments, framed lumber or structural glued-laminated timber trusses, and other roof framing which does not support floor loads, shall have members not less than 4 inches in width and not less than 6 inches in depth. Spaced members may be composed of two or more pieces not less than 3 inches in thickness, when blocked solidly throughout their intervening spaces, or when such spaces are tightly closed by a continuous wood cover plate of not less than 2 inches in thickness, secured to the underside of the members. Splice plates shall be no less than 3 inches in thickness. When protected by an approved automatic sprinkler system under the roof deck, framing members shall be not less than 3 inches in thickness.

(e) Floors. Floors shall be without concealed spaces. Floors shall be of planks, splined or tongue and groove, of not less than 3 inches in thickness

covered with 1-inch tongue-and-groove flooring laid crosswise or diagonally, or ½-inch plywood, or of plank not less than 4 inches in width set on edge close together and well spiked, and covered with 1-inch flooring or ½-inch plywood. The lumber shall be laid so that no continuous line of joints will occur except at points of support. Floors shall not extend closer than ½ inch to walls. Such ½-inch space shall be covered by a molding fastened to the wall and so arranged that it will not obstruct the swelling or shrinkage movements of the floor. Corbeling of masonry walls under floor may be used in place of such molding.

(f) **Roof Decks.** Roofs shall be without concealed spaces and roof decks shall be of planks, splined or tongue and groove, of not less than 2-inch thickness, or 1½-inch tongue-and-groove plywood with exterior glue, or of a double thickness of 1-inch boards with tongue-and-groove joints, or with staggered joints, of lumber not less than 3 inches nominal in width, set on edge close together and laid as required for floors.

(g) **Construction Details.** Approved wall plate boxes or hangers shall be provided where wood beams, girders or trusses rest on masonry or concrete walls.

Girders and beams shall be closely fitted around columns, and adjoining ends shall be cross tied to each other, or intertied by caps or ties, to transfer horizontal loads across the joints. Wood bolsters may be placed on top of columns which support roof loads only.

Where intermediate beams are used to support a floor, they shall rest on top of the girders, or shall be supported by ledgers or blocks securely fastened to the sides of the girders, or they may be supported by approved metal hangers into which the ends of the beams shall be closely fitted.

In heavy timber roof construction, every roof girder and at least every alternate roof beam shall be anchored to its supporting member; roof decks, where supported by a wall, shall be anchored to such wall at intervals not exceeding 20 feet; every monitor and every sawtooth construction shall be anchored to the main roof construction. Such anchors shall consist of steel or iron bolts of sufficient strength to resist vertical uplift of the roof.

(h) **Mechanically Laminated Floors and Roof Decks.** Mechanically laminated floors and roof decks conforming to Section 2517 (l) may be used as heavy timber floors or roof decks, provided the minimum thickness and other applicable requirements of the section are followed.

(i) **Partitions.** Partitions shall be of solid wood construction formed by not less than two layers of 1-inch matched boards or laminated construction of 4-inch thickness, or of one-hour fire-resistive construction.

(j) **Stairs.** Stairs shall be constructed with wood treads and risers of not less than 2-inch thickness, except where built on laminated or plank inclines as required for floors, when they may be of 1-inch thickness or may be constructed as required in Type I buildings.

1988 construction Type III-NH – Assuming 1985 code. Again with Type IIIN, shows 4-hour exterior walls. Again in line with 8" CMU.

**TABLE NO. 17-A—TYPES OF CONSTRUCTION—FIRE-RESISTIVE REQUIREMENTS
(In Hours)**

For details see chapters under Occupancy and Types of Construction and for exceptions see Table 17-B.

| BUILDING ELEMENT | TYPE I | TYPE II | | | TYPE III | | TYPE IV |
|-------------------------------|-----------------------|----------------|---------------|----------|---------------|---------------|---------------|
| | Fire-resistive | NONCOMBUSTIBLE | | | | COMBUSTIBLE | |
| | | Fire-resistive | 1-Hr. | N | 1-Hr. | N | H.T. |
| Exterior Bearing Walls | 4 Sec. 1803 (a) | 4 1903 (a) | 1 | N | 4 2003 (a) | 4 2003 (a) | 4 2103 (a) |
| Interior Bearing Walls | 3 | 2 | 1 | N | 1 | N | 1 |
| Exterior Nonbearing Walls | 4 Sec. 1803 (a) | 4 1903 (a) | 1 1903 (a) | N | 4 2003 (a) | 4 2003 (a) | 4 2103 (a) |
| Structural Frame ¹ | 3 | 2 | 1 | N | 1 | N | 1 or H.T. |
| Partitions—Permanent | 12 | 12 | 12 | N | 1 | N | 1 or H.T. |
| Shaft Enclosures | 2 | 2 | 1 | 1 | 1 | 1 | 1 |
| Floors-Ceilings/Floors | 2 | 2 | 1 | N | 1 | N | H.T. |
| Roofs-Ceilings/Roofs | 2 Sec. 1806 | 1 1906 | 1 1906 | N | 1 | N | H.T. |
| Exterior Doors and Windows | Sec. 1803 (b) | 1903 (b) | 1903 (b) | 1903 (b) | 2003 (b) | 2003 (b) | 2103 (a) |

N—No general requirements for fire resistance. H.T.—Heavy Timber.

¹Structural frame elements in the exterior wall shall be protected against external fire exposure as required for exterior frame, whichever is greater.

²Fire-retardant treated wood (see Section 407) may be used in the assembly, provided fire-resistance requirements are met under Sections 1901 and 1902, respectively.

109

Chapter 20 TYPE III BUILDINGS

Definition

Sec. 2001. Structural elements in Type III buildings may be of any materials permitted by this code.

Type III One-hour buildings shall be of one-hour fire-resistive construction throughout.

Structural Framework

Sec. 2002. Structural framework shall be of steel or iron as specified in Chapter 27, concrete as in Chapter 26, masonry as in Chapter 24, or wood as in Chapter 25 and this chapter.

Exterior Walls, Openings and Partitions

Sec. 2003. (a) **Exterior Walls.** Exterior walls shall be constructed of noncombustible materials and shall comply with the fire-resistive requirements set forth in Section 504 and Table No. 17-A.

EXCEPTIONS: 1. Nonbearing walls fronting on public ways, or yards having a width of at least 40 feet may be unprotected when entirely of noncombustible material.

2. In other than Groups H and I Occupancies, exterior nonbearing walls may be noncombustible one-hour fire resistive where unprotected openings are permitted and noncombustible two-hour fire resistive where protection of openings is required.

3. In Groups R, Division 1, and B Occupancies exterior noncombustible bearing walls may be two-hour fire resistive where openings are permitted.

4. Approved fire-retardant treated wood framing may be used within the assembly of exterior walls as permitted by Exceptions 1, 2 and 3, provided the required fire resistance is maintained and the exposed outer and inner faces of such walls are noncombustible.

5. Wood columns and arches conforming to heavy timber sizes may be used externally where exterior walls are permitted to be unprotected, noncombustible construction or where one-hour fire-resistive noncombustible exterior walls are permitted.

(b) **Openings in Walls.** Openings in exterior walls shall conform to the requirements of Section 504 (b) and shall be protected by a fire assembly having a three-fourths-hour fire-resistive rating when they are less than 20 feet from an adjacent property line or the center line of a public way.

No openings shall be permitted in exterior walls of Groups A, E, I, H and B, Divisions 1, 2 and 3 Occupancies less than 5 feet from the property line, and no openings in Groups B, Division 4, R and M Occupancies less than 3 feet from the property line.

(c) **Partitions.** Bearing partitions, when constructed of wood, shall comply with Section 2516 (d).

Stair Construction

Sec. 2004. Stairs in buildings not exceeding three stories in height may be constructed of any material permitted by this code.

In buildings more than three stories in height, stairs shall be constructed as required for Type I buildings.

Stairs shall comply with the requirements of Chapter 33.

Roofs.

Sec. 2005. Roof coverings shall be as specified in Chapter 32.

2018 code information below... in order to consider IIIB we need 2 hour walls and 0-hour interior and roofs... we obviously meet the 0-hour interior and roof, so we just need the 2-hour exterior walls (Which based on the old code tables 17-A, looks like we do, but we will dive deeper just in case):

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FC

| BUILDING ELEMENT | TYPE I | |
|---|--------------------|-------------------|
| | A | B |
| Primary structural frame ^f (see Section 202) | 3 ^{a, b} | 2 ^{a, b} |
| Bearing walls | | |
| Exterior ^{e, f} | 3 | 2 |
| Interior | 3 ^e | 2 ^e |
| Nonbearing walls and partitions | | |
| Exterior | | |
| Nonbearing walls and partitions | | |
| Interior ^d | 0 | 0 |
| Floor construction and associated secondary members (see Section 202) | 2 | 2 |
| Roof construction and associated secondary members (see Section 202) | 1 1/2 ^b | 1 ^{b, c} |

For Sf, 1 foot = 304.8 mm

- a. Roof supports. Fire-resistance ratings of primary structural frame and bearing walls are permitted to be reduced by 1 hour where supporting a roof only.
- b. Except in Group F-1, H, M and R-1 occupancies, the protection of structural members in roof construction shall not be required, including protection of primary structural fire-retardant-treated wood members shall be allowed to be used for such unprotected members.
- c. In all occupancies, heavy timber complying with Section 2304.11 shall be allowed where a 1-hour or less fire-resistance rating is required.
- d. Not less than the fire-resistance rating required by other sections of this code.
- e. Not less than the fire-resistance rating based on fire separation distance (see Table 602).
- f. Not less than the fire-resistance rating as referenced in Section 704.10.

The exterior walls also may be limited by openings, however since we have 30'+ to the property line from the school building, we don't have to worry about openings:

TABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE

| FIRE SEPARATION DISTANCE (feet) | DEGREE OF OPENING |
|-----------------------------------|--------------------------------------|
| 0 to less than 3 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 3 to less than 5 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 5 to less than 10 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 10 to less than 15 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 15 to less than 20 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 20 to less than 25 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 25 to less than 30 ⁰ * | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |
| 30 or greater | Unprotected, Nonsprinklered (UP, NS) |
| | Unprotected, Sprinklered (UP, S) |
| | Protected (P) |

Lastly, we just have to confirm that CMU is fire rated/non-combustible. See the table below, since we only need 2-hour we just need CMU that is 3.2 to 4.2 inches thick. The school is constructed of regular 8" thick CMU block, so the exterior walls easily meet the 2-hour rating requirement. Again as stated above if we have 8" CMU, we would meet the 4-hour rating of this table, which matches up (4.7 to 6.2 inches required).

TABLE 721.1(2) RATED FIRE-RESISTANCE PERIODS FOR VARIOU

| MATERIAL | ITEM NUMBER | CONSTRUCTION |
|---|--------------------|--|
| 1 Brick of clay or shale | 1-1.1 | Solid brick of clay or shale ¹ |
| | 1-1.2 | Hollow brick, not filled |
| | 1-1.3 | Hollow brick unit wall grout or filled with perlite vermiculite or expanded shale aggregate |
| | 1-2.1 | 4" nominal thick units not less than 75 percent solid backed with a hat-shaped metal furring channel 1/4" thick formed from 0.021" sheet metal attached to the brick wall on 24" centers with approved fasteners and 1/2" Type X gypsum wallboard attached to the metal furring strips with 1" long Type S screws spaced 24" on center |
| 2 Combination of clay brick and load-bearing hollow clay tile | 2-1.1 | 4" solid brick and 4" tile not less than 40 percent solid |
| | 2-1.2 | 4" solid brick and 8" tile not less than 40 percent solid |
| 3 Concrete masonry units | 3-1.1 ² | Expanded slag or pumice |
| | 3-1.2 ² | Expanded clay, shale or slate |
| | 3-1.3 ² | Limestone cinders or air-cooled slag |
| | 3-1.4 ² | Calcareous or siliceous gravel |

Lastly, there are many buildings being built currently as IIIB buildings. I hope TMFPD would easily agree that a CMU building with roof and interior unrated walls would be considered IIIB. This is a fairly low bar to hit for fire resistance and Gomes can easily be interpreted as such in my opinion.

I hope this helps.

Cody R. Black, P.E.

Shaw Engineering

o: 775-329-5559

cody@shawengineering.com

From: Way, Dale <DWay@tmfpd.us>

Sent: Tuesday, February 23, 2021 9:45 AM

To: Chacon, Jorge <JChacon@WashoeSchools.net>; Ehlers, Tasha <TEhlers@washoeschools.net>

Cc: Lemon, Brittany <BLemon@tmfpd.us>; Golden, Teresa <Teresa.Golden@WashoeSchools.net>

Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

Eddy,

Thank you for looking into this further.

In order to reduce the original Fire Flow requirement assigned to this building, I will need to see an analysis and comparison of the code of record for each Phase as each Phase compares to the 2018 IBC.

If Phase 1 in 1980 was Type IV construction, was that considered Heavy Timber construction by the code of record which I'm assuming was the 1978-1979 UBC.

If Phase 2 in 1988 was classified as Type III-N in accordance with the UBC (What edition? I'm guessing 1984-85), what construction Type does this correlate to in the 2018 IBC?

Dale Way

Deputy Fire Chief - Fire Prevention | Truckee Meadows Fire & Rescue
dway@tmfpd.us | Office: 775.326.6000
3663 Barron Wy, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"

From: Chacon, Jorge <JChacon@WashoeSchools.net>
Sent: Tuesday, February 23, 2021 9:20 AM
To: Way, Dale <DWay@tmfpd.us>; Ehlers, Tasha <TEhlers@washoeschools.net>
Cc: Lemon, Brittany <BLemon@tmfpd.us>; Golden, Teresa <Teresa.Golden@WashoeSchools.net>
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

[NOTICE: This message originated outside of Washoe County -- **DO NOT CLICK** on links or open attachments unless you are sure the content is safe.]

Dale,

Thanks for taking the time to talk to me this morning.

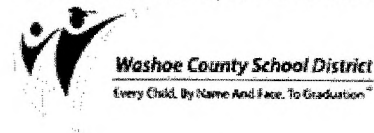
Here is what I have found.
Gomes ES was Built in two phases, 1980 and 1988.
Phase 1 was Type 4 Construction
Phase 2 was Type 3NH Construction

I have extracted the cover sheets for each phase listing their "Design Criteria's" and saved them into PDF for your use. They have been attached.

Let me know if there is anything else you need from me and if this changes anything for Lifestyle Homes.

Thanks,

Eddy Chacon
Assistant Director of Planning & Design
Washoe County School District
775.789.3819 office | 775.772.8939 cell



From: Way, Dale <DWay@tmfpd.us>
Sent: Monday, February 22, 2021 12:32 PM
To: Ehlers, Tasha <TEhlers@washoeschools.net>
Cc: Lemon, Brittany <BLemon@tmfpd.us>; Chacon, Jorge <JChacon@WashoeSchools.net>
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

Ms. Ehlers,

I am trying to call you as it may be easier to understand your needs. My phone may show as a Spam Caller or some unrecognized name.

Can you or Mr. Chacon call me at 775.326.6005 desk or 775.437.0191 work cell.

Thank you.

Dale Way

Deputy Fire Chief -- Fire Prevention | Truckee Meadows Fire & Rescue
dway@tmfpd.us | Office: 775.326.6000
3663 Barron Wy, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"

From: Ehlers, Tasha <TEhlers@washoeschools.net>
Sent: Friday, February 19, 2021 10:30 AM
To: Way, Dale <DWay@tmfpd.us>
Cc: Lemon, Brittany <BLemon@tmfpd.us>; Chacon, Jorge <JChacon@WashoeSchools.net>
Subject: RE: [EXTERNAL] RE: Letter Needed for Great Basin Water

[NOTICE: This message originated outside of Washoe County -- **DO NOT CLICK** on links or open **attachments** unless you are sure the content is safe.]

Good Morning Mr. Way:

Thank you for your response. Please see below information from our engineer. Please let me know if you have any further questions. Myself or Mr. Jorge Chacon should be able to assist you with anything further.

Although Zone 2 is not the most likely connection for Village Parkway, I wanted to mention that your 2018 IRP showed the elementary school to have a fire flow demand of 2,338 for 4 hours. This was a little strange as even the 1997 IFC didn't have that fire flow amount listed in its tables. WCSD maintains their construction types and building square footage and they have Gomes Elementary at 41,287 SF and Type IIIB construction. Based on the current IFC (and Northern Nevada Fire Amendments); fire flow for the school would only be 2,125 GPM for 2 hours. We have been unable to discover the circumstances which may have justified higher numbers at the time the school was built in 1981. It may be that TMFPD was just getting started and there was no nearby fire station. Maybe this will help your Zone 2 calcs in your IRP update as well.

Tasha Ehlers
Permit Admin. Tech.
Capital Projects, Planning
775.325.8306 Phone
775.851.5658 Fax
Tehlers@washoeschools.net

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From: Way, Dale <DWay@tmfpd.us>
Sent: Friday, February 19, 2021 8:25 AM
To: Ehlers, Tasha <TEhlers@washoeschools.net>
Cc: Lemon, Brittany <BLEmon@tmfpd.us>
Subject: [EXTERNAL] RE: Letter Needed for Great Basin Water

Ms. Ehlers,

Fire Flow is based on the construction type and size of a building being built.

I have question in regards to your request.

Is this for a newly proposed building, addition, etc.?

Thank you.

Dale Way

Deputy Fire Chief – Fire Prevention | Truckee Meadows Fire & Rescue

dway@tmfpd.us | Office: 775.326.6000
3663 Barron Wy, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"

From: Francis, Sandy <sfrancis@tmfpd.us>
Sent: Thursday, February 18, 2021 3:04 PM
To: Way, Dale <DWay@tmfpd.us>
Subject: FW: Letter Needed for Great Basin Water

Chief,

Would this be you or your staff?

Sandy Francis

Administrative Assistant | Truckee Meadows Fire & Rescue
sfrancis@tmfpd.us | Office: 775.328-6124 | Cell: 775.741-6402

From: Ehlers, Tasha <TEhlers@washoeschools.net>
Sent: Thursday, February 18, 2021 1:25 PM
To: Francis, Sandy <sfrancis@tmfpd.us>
Cc: Chacon, Jorge <JChacon@WashoeSchools.net>
Subject: Letter Needed for Great Basin Water

[NOTICE: This message originated outside of Washoe County -- **DO NOT CLICK** on links or open **attachments** unless you are sure the content is safe.]

Hi Sandy,

Great Basin water is asking for a letter stating that our current fire flow of 2125 gal per minutes satisfies Truckee Meadows Water requirements. Can you please tell me who I would speak to about obtaining such a letter?

Thank you

Tasha Ehlers
Permit Admin. Tech.
Capital Projects, Planning
775.325.8306 Phone

775.851.5658 Fax
Tehlers@washoeschools.net

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Great Basin Water Company – Spanish Springs Division (Volume V)

Miscellaneous Data

NDEP Interpretation of NAC 445A Capacity Requirements

GBWC-SSD Discovery: Preliminary Water Facility and Resource Requirements for
Wholesale Service

Response to Nitrate Concerns Memorandum

NDEP Interpretation of NAC 445A Capacity Requirements

Mara Quiroga, P.E.

From: Brendon Grant <bgrant@ndep.nv.gov>
Sent: Wednesday, November 22, 2023 11:05 AM
To: Mike Hardy, P.E., PG, WRS
Cc: James T. Eason; Sean Ashcraft (sean.ashcraft@greatbasinwaterco.com); Cynthia Turiczek; Adam Roney; Shaun Richardson; Mike Hardy, P.E., PG, WRS; Kelly, David A
Subject: RE: NDEP Follow Up

Caution! This message was sent from outside your organization.

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Good morning,

An existing water system with more than one pressure zone is viewed holistically as one water system; however, each pressure zone acts like its own individual system (well, tank, booster pump, chlorinator, etc.). Each pressure zone shall meet its own total capacity requirements before any excess water is transferred to a pressure zone that lacks total capacity. As long as there is an alternative power source at the well and/or booster pump facility in the pressure zone with excess total capacity, the excess total capacity can be used to augment the total capacity requirements of a pressure zone that lacks total capacity. Below are various NAC 445A regulations regarding capacity requirements with BSDW's interpretation.

- *NAC 445A.6672 Existing systems: Minimum capacities; minimum pressure and velocity of water; total capacity of groundwater system; timely completion of water projects. (NRS 445A.860) A supplier of water for an existing public water system shall:*

1. *Ensure that the public water system maintains a sufficient capacity for the development and treatment of water, and a storage capacity of sufficient quantity, to satisfy the requirements of all users of the public water system under the conditions of maximum day demand and peak hour demand.*

...

3. *If the public water system relies exclusively on water wells as its source of water, ensure that the **total capacity** of the system is sufficient to meet:*

- (a) *The maximum day demand, fire flow and fire demand when all the facilities of the system are functioning; or*
- (b) *The average day demand, fire flow and fire demand when the most productive well of the system is not functioning,*

- *whichever is greater. When computing total capacity for this purpose, credit must be given for any storage capacity.*

...

If a water system, like all of Great Basin Water Company's water systems throughout Nevada, relies on groundwater, then the total capacity shall be sufficient to meet the MDD and Fire Demand when all the facilities (wells, booster pump stations, and storage tanks) are functioning; or meet the ADD and fire demand when the most productive well is not functioning. The scenario with the greatest demand will need to be compared against the total capacity of the system. The total capacity shall be greater than the demand. If there is more than one pressure zone, this calculation needs to be performed for each pressure zone.

- *NAC 445A.66725 Existing systems: Determination of total capacity preparation, maintenance and dissemination of certain information, analyses, plans and reports. (NRS 445A.860) A supplier of water for an existing public water system shall:*

1. *Determine the total capacity of the public water system through engineering analyses that use historical data or other guidelines or parameters accepted by the engineering profession and, upon request, submit documentation of that capacity to the Division or the appropriate district board of health. When analyzing the*

total capacity of the public water system with regard to requirements for maximum day demand, only the alternative pumping capacity and the storage capacity of the public water system may be considered as sources of supply.

...

Alternative pumping capacity is defined in NAC 445A.6554. Wells equipped with a backup power supply, and booster pump stations with a backup power supply that pump water from a lower pressure zone to a higher pressure zone to meet demands, are considered alternative pumping capacity. Wells and booster pump stations without a backup power supply cannot be used to calculate the total capacity that is to be compared against MDD.

- **NAC 445A.6674 Storage capacity. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *A supplier of water shall ensure that:*
 - (a) *An existing public water system maintains a storage capacity that, as determined by an engineer on the basis of historical data, accepted engineering judgment and a network hydraulic analysis, is sufficient to ensure that the total capacity of the public water system will meet current and anticipated demands for water while maintaining the pressures indicated in NAC 445A.6711.*
 - (b) *A new public water system maintains a storage capacity that is sufficient to provide the amount of water required for sufficient **operating storage, emergency reserve and fire demand**.*
 2. *Storage requirements for fire demand must be calculated according to the requirements of the fire authority. The Division or the appropriate district board of health shall evaluate the design of a public water system based upon appropriate documentation of those requirements.*
 3. *A supplier of water for an existing public water system shall ensure that the total storage capacity and capacity of booster pumps for each zone of pressure in the distribution system are sufficient to meet the maximum day demand within that zone. Water stored in a higher zone of pressure may be provided to serve a lower zone of pressure if:*
 - (a) *An appropriate pressure regulator is installed between the zones; and*
 - (b) *The requirements for the higher zone of pressure are not compromised.*

If an existing water system has more than one pressure zone, there shall be sufficient storage (operating, fire, and emergency) to meet current and anticipated demands in each zone. If it is determined that a higher pressure zone has excess total storage capacity, then the excess storage can be transferred to a lower zone to augment its total storage capacity. The same can be said about a lower zone supplying excess total storage capacity to a higher zone via a booster pump station; however, this scenario would only be allowed if the booster pump station is equipped with an emergency source of power. Note that operating storage, emergency reserve, and fire demand are defined in NAC 445A.6617, NAC 445A.65885, NAC 445A.65935, respectively.

- **NAC 445A.66745 Operating storage. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *An existing public water system must maintain an operating storage in such an amount as an engineer determines, based upon historical data and the system's capacity for the development and treatment of water, to be sufficient for the system to meet requirements for maximum day demand.*

...

If an existing water system has more than one pressure zone, the engineer and water system shall determine how much operating storage is available to meet the MDD for each pressure zone.

- **NAC 445A.6675 Emergency reserve. (NRS 445A.860) Except as otherwise provided in NAC 445A.66755:**
 1. *An existing public water system must maintain an emergency reserve in such an amount as an engineer determines appropriate on the basis of the best available local information.*

...

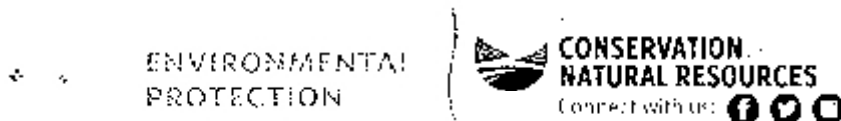
If an existing water system has more than one pressure zone, the engineer and water system shall determine an appropriate amount of emergency reserve available for each pressure zone. Examples of an emergency are line breaks and temporary failure of a pumping facility.

- *NAC 445A.66755 Existing systems: Exemption from storage requirements. (NRS 445A.860) An existing public water system is not required to comply with the requirements of NAC 445A.6674, 445A.66745 and 445A.6675 if the system has a sufficient alternative pumping capacity to meet requirements for maximum day demand, peak hour demand and fire flow.*

If an existing system has sufficient alternative pumping capacity (well or booster pump station with backup power supply), to meet MDD, PHD, and fire flow, then the requirements outlined in NAC 445A.6674, NAC 445A.66745, and NAC 445A.66755 are not required to be met.

Please let me know if you have any questions or comments.

Brendon Grant, P.E.
Engineering Branch Supervisor
Bureau of Safe Drinking Water
Nevada Division of Environmental Protection
Department of Conservation and Natural Resources
901 S. Stewart Street, Suite 4001
Carson City, NV 89701
(O) 775 687-9524



GBWC-SSD Discovery: Preliminary Water Facility and Resource Requirements for
Wholesale Service



September 10, 2018
Revised October 11, 2018

Marc Rohus
Great Basin Water Company
3670 Grant Drive, Suite 103
Reno, NV 89509

**Subject: Great Basin Water Company – Spanish Springs Division Discovery
Preliminary Water Facility and Resource Requirements for Wholesale Service**

Mr. Rohus:

TMWA has conducted a high-level engineering analysis to determine the least cost major water facility requirements, estimated resource dedication requirements and preliminary cost estimate necessary to provide wholesale water service to Great Basin Water Company.

Preliminary Water Facility Requirements and Cost Estimates:

The estimated cost to provide the requested service is approximately \$9,722,416 for 600 gpm of maximum day capacity and \$17,589,436 for 1,100 gpm of maximum day capacity. These costs are summarized in the tables below.

Table 1: Estimated Major Water Costs 600 gpm

| Facility Description | Quantity | Unit | Unit Cost | Total Cost | Comments |
|--------------------------------------|----------|---------|-----------|--------------------|-------------------------------------|
| Surface Water Resources Dedication | 328 | AFA | \$7,600 | \$2,492,800 | Current TMWA Price - estimated only |
| Surface Water Drought Factor (x0.11) | 36 | AFA | \$7,600 | \$273,600 | Rule 7 |
| Surface Water Return Flow (x1.6) | 199 | AFA | \$7,600 | \$1,512,400 | Septics, not sewered to TMWRF |
| Water Meter Retrofit Fund Fee | 328 | AFA | \$1,830 | \$600,240 | Rule 7 |
| Meter Vault Cordoba Blvd. | 1 | each | \$150,000 | \$150,000 | 450 feet south of La Posada Drive |
| Area 4 Facility Charge | 600 | per gpm | \$2,877 | \$1,726,200 | Rate Schedule WSF |
| Storage Facility Charge | 608 | per gpm | \$772 | \$469,376 | 1,016,000 gallons |
| Supply and Treatment Facility Charge | 600 | per gpm | \$4,163 | \$2,497,800 | Rate Schedule WSF |
| Estimated Cost | | | | \$9,722,416 | 2018 planning level estimate only |

Table 2: Estimated Major Water Costs 1,100 gpm

| Facility Description | Quantity | Unit | Unit Cost | Total Cost | Comments |
|--------------------------------------|----------|---------|-----------|---------------------|-------------------------------------|
| Surface Water Resources Dedication | 602 | AFA | \$7,600 | \$4,575,200 | Current TMWA Price - estimated only |
| Surface Water Drought Factor (x0.11) | 66 | AFA | \$7,600 | \$501,600 | Rule 7 |
| Surface Water Return Flow (x1.6) | 401 | AFA | \$7,600 | \$3,047,600 | Septics, not sewered to TMWRF |
| Water Meter Retrofit Fund Fee | 602 | AFA | \$1,830 | \$1,101,660 | Rule 7 |
| Meter Vault Cordoba Blvd. | 1 | each | \$150,000 | \$150,000 | 450 feet south of La Posada Drive |
| Area 4 Facility Charge | 1,100 | per gpm | \$2,877 | \$3,164,700 | Rate Schedule WSF |
| Storage Facility Charge | 608 | per gpm | \$772 | \$469,376 | 1,016,000 gallons |
| Supply and Treatment Facility Charge | 1,100 | per gpm | \$4,163 | \$4,579,300 | Rate Schedule WSF |
| Estimated Cost | | | | \$17,589,436 | 2018 planning level estimate only |

Discussion:

Location:

The Great Basin Water Company- Spanish Springs Division (GBWC-SSD) serves customers in the Spanish Springs Valley generally north of La Posada Drive and east of Pyramid Way. Attachment A by Lumos and Associates summarizes water system information for the existing water company. The GBWC-SSD service area is located outside the Truckee Meadows Water Authority's wholesale service territory and must be annexed prior to service.

Wholesale Demands Requested:

GBWC-SSD has requested 600 gpm or 1,100 gpm of wholesale demand from the TMWA. These demands are assumed to be maximum flow rates and are not interruptible. In addition, some shared storage is requested to make up for the storage deficit listed in Attachment A at 1,016,000 gallons of operating and emergency storage.

Point of Connection:

Delivery of the requested service from the former Washoe County water system is not possible due to supply limitations. Five groundwater production wells in this system are unavailable due to water quality or physical failure including the recent failure of one well in June 2018. This well is available currently but at a reduced production rate. A replacement well is planned but will take some time to complete. A pilot treatment project is currently underway at another well site through the end of 2019.

The point of connection where the requested service can be delivered (from the TMWA system that existed prior to the 2015 merger) is the 12-inch main in Cordoba Blvd. approximately 450 feet south of La Posada Drive. A meter vault with necessary backflow device and SCADA

control could be placed in the common area owned by the Cimarron Master Association Inc. if necessary easements were granted. All facilities including but not limited to pumps, pressure reducing valves and main extensions beyond the meter vault will be sized, constructed, owned and maintained by GBWC-SSD.

TMWA Distribution System Improvements:

There are no additional TMWA distribution system improvements anticipated at this time for the two wholesale flow rates requested.

Water Quality Data:

The water delivered at the proposed wholesale location will be primarily surface water. Arsenic and nitrate are very low and of little consequence in TMWA surface water. Groundwater in the area is influenced by Nitrate and Arsenic. TMWA's 2018 Water Quality Report is attached for your information.

Water Resource Dedication:

Surface water dedication and associated costs are presented in this report. GBWC groundwater resources might be put to use at some later date and will be evaluated upon request.

Applicable TMWA Wholesale Rates:

Large Volume Resale Service (LVS, developed for the Sun Valley General Improvement District) and Firm Standby and Partial Requirements (FSPR) rate schedules are attached for your review. A variation of the LVS rate schedule or the FSPR rate schedule may apply depending on the type of service requested by GBWC-SSD. The applicable rate would be stipulated in a new Wholesale Agreement. The Wholesale Agreement would also address other issues such as required or minimum delivery characteristics (pressure, flow), water rights dedication requirements, wholesale area description, and the wholesale point of delivery.

Retirement of Existing Emergency Connection(s):

TMWA will require that all existing emergency connections between the two water utilities be severed and capped. One such known connection is the normally closed valve located at the intersection of Hercules Drive and Cordoba Blvd.

Renegotiation of Exchange Agreements:

Existing exchange agreement(s) between the two utilities will be renegotiated to include discussion regarding the existing water service provided to the four lots on Valle De Sol Court.

Assumptions:

1. This preliminary study was based on information provided by Lumos and Associates in July and on September 7, 2018. The applicant provided Attachment A is included for reference.
2. TMWA plans to reevaluate and possibly revise the facility charges for maximum day demand within the next twelve months as part of the Water Facility Plan Update.
3. Facility requirements were based on the two requested wholesale flow rates of 600 gpm or 1,100 gpm. All cost estimates are for major offsite facilities only, are preliminary and subject to change. Actual costs will be determined at the time of application for service.
4. This estimate does not include the cost of required facilities beyond the meter vault nor finalized water resource dedication requirements.

5. This water service plan is preliminary and subject to change.
6. The ultimate water facility plan proposed by the Truckee Meadows Water Authority may be reviewed for compliance with state and local codes and regulations and approved by the local health authority prior to service.

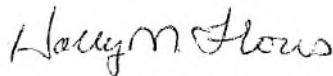
Conclusion:

The Truckee Meadows Water Authority is agreeable to supplying the requested water service, subject to the applicant satisfying certain conditions precedent, including, without limitation, creation of a TMWA wholesale service territory, the dedication of water resources as required, approval of the water supply plan by the local health authority, the execution of a Water Service Agreement, payment of fees, and the construction and dedication of infrastructure in accordance with our rules and tariffs.

Because the NAC 445A water system regulations are subject to interpretation, the Truckee Meadows Water Authority cannot guarantee that a subsequent water facility plan will be approved by the health authority or that a timely review and approval of the plan will be made. After submittal of a complete application for service, the required facilities, the cost of these facilities and associated fees will be estimated and will be included as part of the Water Service Agreement necessary for the project. All fees must be paid to the Truckee Meadows Water Authority prior to water being delivered to the project.

I can be reached at 834-8026 or by email at hflores@tmwa.com if you have questions.

Regards,



Holly M. Flores, P.E.
Principal Engineer

/hmf

cc: Mike Hardy, P.E., Lumos and Associates
File 18-6317

Attachments: Attachment A - Water System Information – by Lumos & Associates
TMWA Distribution System Exhibit
2018 Water Quality Report
TMWA Rate Schedules LVS and FSPP

Attachment A
Great Basin Water Company – Spanish Spring Division (GBWC-SSD)
Water System Information

1. Existing Well Capacities

| Well | Pressure Zone | Capacity (gpm) |
|------------------------------|---------------|----------------|
| Well #1 (Bridal/Bridle Path) | Lower | 600 |
| Well #2 (Suki) | Lower | 420 |
| Total | - | 1,020 |

2. Existing Storage Capacities

| Tank | Pressure Zone | Storage Capacity (gal) |
|---------|---------------|------------------------|
| Tank 1A | Lower | 250,000 |
| Tank 1B | Lower | 300,000 |
| Tank 2 | Upper | 350,000 |
| Total | - | 900,000 |

3. Existing Water Demands and Fire Flows

| Condition | Demand (gpm) |
|--------------------------|-----------------|
| Average Day Demand (ADD) | 373 |
| Maximum Day Demand (MDD) | 954 |
| Fire Flow Required | 1,000 for 2 hrs |

4. Existing Storage Deficiencies

| Parameter | Storage Volume (gal) | |
|-------------------------------|----------------------|------------|
| | Lower Zone | Upper Zone |
| Required Storage ¹ | 783,000 | 1,133,000 |
| | vs | vs |
| Available Storage | 550,000 | 350,000 |
| Deficiency | 233,000 | 783,000 |

¹ Required Storage = Operational (MDD) + Emergency (ADD) + Fire Flow (1,000 gpm @ 2 hrs).

2018 WATER QUALITY REPORT

Data collected for 2017 calendar year

Our Promise to You: *Quality. Delivered.*

Truckee Meadows Water Authority (TMWA) is dedicated to providing reliable service and delivering high-quality drinking water to more than 400,000 residents throughout the Reno-Sparks area. In accordance with the US Environmental Protection Agency (EPA) Consumer Confidence Rule, I am pleased to present TMWA's annual Water Quality Report on behalf of our staff and board of directors.

This report, which is based on data collected in the 2017 calendar year, contains information about the source of your drinking water and how it compares to drinking water standards established by the EPA. We are providing this report electronically. If you would like a print copy mailed to you, please call Water Quality Senior Chemist Craig Moyle at (775) 834-8130 or contact him by email at cmoyle@tmwa.com.

Information in this report reinforces TMWA's standing among the nation's leaders in water quality—a distinction recognized by the Partnership for Safe Water. The Partnership ranks TMWA's Chalk Bluff Water Treatment Plant among the highest-performing water treatment plants in the country for individual filter performance. While we appreciate this recognition, it simply reflects what has always been our priority: maintaining and improving our water system's infrastructure for the safety of our customers and ensuring that the water delivered to you is of exceptional quality.

If you have any general questions about water quality, please call our Water Quality Department at (775) 834-8118. For information on other water topics, go to www.tmwa.com to find helpful resources as well as a complete list of the phone numbers for TMWA's departments. We know water has a direct connection to the quality of life in our community, and we are always ready to hear from you.

Yours in good health,

Mark Foree, General Manager

TRUCKEE MEADOWS WATER
AUTHORITY
Quality. Delivered.

A great source combined with a great team makes for a high-quality product.

Lake Tahoe, famous for its clarity and quality, and the Truckee River system are our region's primary sources of drinking water. However, the miles they alone provide a water source is not all that's highly skilled and trained scientists, engineers, and operators to supply, treat, and deliver high-quality drinking water to customers 24 hours a day, 7 days a week, 365 days a year. TMWA has two additional treatment facilities. During a typical year, TMWA only uses a tiny portion of the total flow in the Truckee River to meet our customers' needs. The Truckee River meets more than 90 percent TMWA's annual customer demand; the remainder is supplied by groundwater both located within our service area.

What regulations does TMWA water meet?

TMWA adheres to all federal, state, and local water regulations set forth by the Environmental Protection Agency, State of Nevada Division of Environmental Protection, and the Washoe County Health District. TMWA is required to monitor and meet regulatory standards for more than one hundred contaminants. All water delivered to customers is treated and must adhere to some of the strictest drinking water regulations in the world.

TMWA is a not-for-profit, community-owned water utility overseen by elected officials from Reno, Sparks, and Washoe County. TMWA employs a highly skilled team that ensures the treatment, safety, and availability of high-quality drinking water around the clock for more than 400,000 residents of the Truckee Meadows.

TEST RESULTS: 2017 WATER QUALITY DATA

The table below lists all the primary regulated drinking water contaminants that TMWA detected during the 2017 calendar year of this report. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented

in this table are from testing done during the calendar year of the report. The EPA or the state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change frequently.

| CONTAMINANTS | MCLG OR MRDLG | MCL, TT, OR MRDL | 2017 Result | System Weighted Average | Range Low | Range High | Sample Year | Violation? | Typical Source |
|---|---|------------------|-------------|-------------------------|-------------|-------------|--|------------|---|
| DISINFECTANTS & DISINFECTANT BY-PRODUCTS (There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants) | | | | | | | | | |
| Chlorine (mg/L) | 4 | 4 | 0.84 | 0.84 | 0.2 | 1.46 | 2017 | No | Water additive used to control microbes |
| Halooacetic Acids (HAA5) (ppb) | NA | 60 | 27 | 27 | ND | 41 | 2017 | No | By-product of drinking water chlorination |
| Trihalomethanes (THM5) (ppb) | NA | 80 | 49 | 49 | ND | 75 | 2017 | No | By-product of drinking water disinfection |
| INORGANIC CONTAMINANTS | | | | | | | | | |
| Antimony (ppb) | 6 | 6 | 2 | 0.0191 | ND | 5.2 | 2017 | No | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; test addition. |
| Arsenic (ppb) | 0 | 10 | 7.2 | 0.12 | ND | 13.6 | 2017 | No | Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes |
| Barium (ppm) | 2 | 2 | 0.113 | 0.0172 | ND | 0.113 | 2017 | No | Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits |
| Bromide (ppm) | 4 | 4 | 0.24 | 0.00002 | ND | 0.24 | 2017 | No | Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories |
| Nitrate (measured as Nitrogen) (ppm) | 10 | 10 | 6.61 | 0.154 | ND | 6.61 | 2017 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| Nitrate (measured as Nitrogen) (ppm) | 10 | 10 | 2.78 | 0.105 | ND | 2.78 | 2017 | No | Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits |
| MICROBIOLOGICAL CONTAMINANTS | | | | | | | | | |
| Total Coliform (per 100 mL of water) | 0 | 5 | 0 | 0 | 0 | 0 | 2017 | No | Naturally present in the environment |
| Turbidity (NTU) | 100% of the samples were below the TT value of 0.3. A value less than 95% constitutes a TT violation. The highest single measurement was 0.079. Any measurement in excess of 1 is a violation unless otherwise approved by the state. | | | | | | | | Soil runoff |
| RADIOACTIVE CONTAMINANTS | | | | | | | | | |
| Actinium (pCi/L) | 0 | 15 | 6.3 | 0.136 | ND | 6.3 | 2017 | No | Erosion of natural deposits |
| Radium 226 (pCi/L) | 0 | 5 | 4 | 0.00317 | ND | 4 | 2017 | No | Erosion of natural deposits |
| Radium combined (pCi/L) | 0 | 5 | 4 | 0.00317 | ND | 4 | 2017 | No | Erosion of natural deposits |
| Uranium (ug/L) | 0 | 30 | 13.9 | 0.595 | ND | 13.9 | 2017 | No | Erosion of natural deposits |
| SYNTHETIC ORGANIC CONTAMINANTS INCLUDING PESTICIDES AND HERBICIDES | | | | | | | | | |
| Atrazine (ppb) | 70 | 70 | 0.18 | 0.0301 | ND | 0.18 | 2017 | No | Runoff from herbicide used on row crops |
| VOLATILE ORGANIC CONTAMINANTS | | | | | | | | | |
| Tetrachloroethylene (ppb) | 0 | 5 | 2.2 | 0.00164 | ND | 2.2 | 2017 | No | Discharge from factories and dry cleaners |
| Trichloroethylene (ppb) | 0 | 5 | 0.7 | 0.00058 | ND | 0.7 | 2017 | No | Discharge from metal degreasing sites and other factories |
| ADDITIONAL TESTS | | | | | | | | | |
| CONTAMINANTS | MCLG | AL | 2016 Result | # Samples Exceeding AL | Sample Date | Exceeds AL? | Typical Source | | |
| INORGANIC CONTAMINANTS | | | | | | | | | |
| Corrosion level at consumer taps (ppm) | 1.3 | 1.3 | 0.148 | 0 | 2016 | No | Corrosion of household plumbing systems; Erosion of natural deposits | | |
| Lead (ppb) | 0 | 15 | <1.0 | 0 | 2016 | No | Corrosion of household plumbing systems; Erosion of natural deposits | | |

VIOLATIONS: This water system had no violations during the 2017 calendar year.

| UNIT DESCRIPTIONS | | | |
|-------------------|---|------------------------|---|
| Term | Definition | Term | Definition |
| µg/L | Number of micrograms of substance in one liter of water | Positive samples/month | Percent of samples taken monthly that were positive |
| ppm | Parts per million, or milligrams per liter (mg/L) | NA | Not applicable |
| µg/l | Parts per billion, or micrograms per liter (µg/L) | ND | Not detected |
| Bq/L | Picocuries per liter (a measure of radioactivity) | MNR | Monitoring not required, but recommended. |
| NTU | Nephelometric Turbidity Units: Turbidity is a measure of the cloudiness of the water. | | |

| IMPORTANT DRINKING WATER DEFINITIONS | |
|--------------------------------------|--|
| Term | Definition |
| MCLG | Maximum Contaminant Level Goal: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. |
| MCL | Maximum Contaminant Level: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology. |
| TQ | Treatment Technique: A required process intended to reduce the level of a contaminant in drinking water. |
| AL | Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. |
| Variances and Exemptions | State or EPA permission not to meet an MCL or a treatment technique under certain conditions. |
| MRDLG | Maximum Residual Disinfection Level Goal: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants. |
| MRDL | Maximum Residual Disinfectant Level: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. |
| MNR | Monitored Not Regulated |

NOTES: SYSTEM WEIGHTED AVERAGE: The 2018 Water Quality Report is mandated by the EPA to give our consumers the **highest** recorded value of any constituent detected from all sources in 2017. However, most groundwater wells, where most of our reported constituents were detected, are only used when system demands are at their peak—during the summer months. The “system weighted average” value is based on the percentage of total production and highest compliance value recorded for the year. In this way, we not only report the highest value detected in our system for any constituent but also give you an idea of how little that groundwater is used when compared with the total water produced from our two surface water plants. This report will also allow us to give you a more meaningful representation of the water you receive, rather than just a highest detected value for a well that may only operate one day a week.

Tetrachloroethylene (PCE)/ARSENIC/THM/HAA/ANTIMONY: Compliance for these constituents is determined by calculating the running annual average. Sampling is conducted on either a daily or quarterly basis at designated locations. A corresponding quarterly average is determined from these samples, and the running annual average is calculated by using the four most recent quarterly averages. A single sample may show that an individual result is over the MCL but the compliance value remains below it. All water meets all local, state, and federal standards and is safe to drink.

HEALTH INFORMATION ABOUT WATER QUALITY

ADDITIONAL INFORMATION FOR ARSENIC

Although your drinking water meets EPA standards for arsenic, it does contain low levels. EPA standards balance the current understanding of arsenic’s possible health effects against the costs of removing arsenic from drinking water. The EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems.

ADDITIONAL WATER QUALITY INFORMATION

Total organic carbon (TOC) has no health effects. However, TOC provides a medium for the formation of disinfection by-products. These by-products include trihalomethanes (THMs) and haloacetic acids (HAAs). Drinking water containing these by-products in excess of the MCL may lead to adverse health effects, liver or kidney problems, nervous system effects, and may increase the risk of getting cancer. Some people who drink water containing HAAs in excess of the MCL over many years may have an increased risk of getting cancer.

Some people who drink water containing antimony well in excess of the MCL over many years, experience increases in blood cholesterol and decreases in blood sugar.

Nitrate concentration in drinking water at levels above 10 ppm poses a health risk for infants younger than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant, you should ask for advice from your health care provider.

WATER TREATMENT PLANT FILTER LOADING RATE

After satisfactory demonstration, TMWA has been granted approval by the State of Nevada Bureau of Safe Drinking Water to operate the Glendale Water Treatment Plant at the accelerated filter loading rate up to 7.5 gallons per minute (gpm)/square foot and the Chalk Bluff Water Treatment Plant at up to 8.5 gpm/square foot under the conditions that while operating at the accelerated filter loading rate, no individual filter at either plant may exceed 0.2 NTU, and the Chalk Bluff combined filter turbidity may not exceed 0.2 NTU.

TREATMENT PROCESS FOCUSES ON HEALTH

The water delivered to your tap meets all US EPA and State of Nevada drinking water health standards. It undergoes a multistage treatment process and is rigorously tested daily. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised people—such as people with cancer undergoing chemotherapy, people who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly individuals, and infants—can be particularly at risk from infections. These people should seek advice from their health care providers about their drinking water.

The EPA/CDC has guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial contaminants. More information about these and other contaminants and their potential health effects can be obtained by calling the Safe Drinking Water Hotline at (800) 426-4791. We test for *Cryptosporidium* biweekly in both our source water and treated water. TMWA routinely monitors our source water and finished water for *Cryptosporidium*. No *Cryptosporidium* oocysts were detected in the finished water sampled from the Chalk Bluff and Glendale Water Treatment Facilities.

WHY ARE THERE CONTAMINANTS IN MY DRINKING WATER?

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800) 426-4791. The sources of drinking water (both tap water and bottled) include rivers, lakes, streams, ponds,

reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material and can pick up substances resulting from the presence of animals or human activity.

Contaminants that may be present in source water include:

- Microbial contaminants such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife
- Inorganic contaminants such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming
- Pesticides and herbicides, which may come from a variety of sources, including agriculture, urban stormwater runoff, and residential uses
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production and can also come from gas stations, urban stormwater runoff, and septic systems
- Radioactive contaminants, which can be naturally occurring or the result of oil and gas production or mining activities

To ensure tap water is safe to drink, the EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. In addition, the Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water to provide the same protection for public health.

REQUIRED CONSUMER CONFIDENCE REPORT (CCR) STATEMENT ADDRESSING LEAD IN DRINKING WATER

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. TMWA is responsible for providing high-quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty seconds to two minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the EPA's Safe Drinking Water Hotline at (800) 426-4791 or at epa.gov/safewater/lead.

SOURCE WATER ASSESSMENT AND ITS AVAILABILITY

The Federal Safe Drinking Water Act was amended in 1996 and requires states to develop and implement source water assessment programs to analyze existing and potential threats to the quality of public drinking water. A summary of TMWA's susceptibility to potential sources of contamination was initially provided by Nevada in 2003. The summary of this source water assessment was first included in the TMWA 2004 Water Quality Report and may now be accessed online at tmwa.com. Information pertaining to the initial findings of the source water assessment is available for viewing in person at the offices of the Bureau of Safe Drinking Water, 901 South Stewart St., Ste. 4001, Carson City, NV 89701. Appointments are suggested; please call (775) 687-9521. Office hours are 8 a.m. to 5 p.m., Monday through Friday.

WHERE CAN I GET WATER QUALITY DATA?

The Water Quality section of our website, tmwa.com, provides water quality information for different areas of our service territory. We also maintain a news and information page with fact sheets on water quality issues. Additional information on our water sources, distribution, and treatment can also be found online. If you have questions or need more information, please contact any of the following staff:

KELLI BURGESS | Supervisor, Water Quality & Environmental Permitting
(775) 834-8117 - kburgess@tmwa.com

BRETT COFFMAN | Associate Water Quality Microbiologist
(775) 834-8251 - bcoffman@tmwa.com

JESSICA GEARHART | Associate Water Quality Microbiologist
(775) 834-8214 - jgearhart@tmwa.com

ANDY GEBHARDT | Director, Operations and Water Quality
(775) 834-8007 - agebhardt@tmwa.com

CRAIG MOYLE | Senior Water Quality Chemist
(775) 834-8130 - cmoyle@tmwa.com

JIM PEZONELLA | Senior Water Quality Specialist - Microbiology
(775) 834-8177 - jpezonella@tmwa.com

WILL RAYMOND | Water Operations Supervisor
(775) 834-8138 - wraymond@tmwa.com

Truckee Meadows Water Authority

RATE SCHEDULES

LVS – LARGE VOLUME RESALE SERVICE

APPLICABILITY

Large Volume Resale Service is applicable to water companies for resale within a Customer's Wholesale Service area included in this rate schedule.

AVAILABILITY

Large Volume Resale Service is available from existing facilities of Authority located within its Wholesale Service territories.

RATES

Commodity Rates per 1,000 Gallons

Sun Valley General Improvement District

| | |
|--|--------|
| First 29,000,000 Gallons per Billing Period | \$1.57 |
| Greater than 29,000,000 Gallons per Billing Period | \$2.60 |

Additional Charges

| | |
|--|----------|
| Customer Charge per Meter per Billing Period | \$134.20 |
|--|----------|

Late Charge:

5% of any amount in arrears from previous billings.

Other Charges:

As specified in Rate Schedule OC excluding Regional Water Management Fee and applied to total bill.

MINIMUM CHARGE

The Minimum Charge for delivery of water for this service shall consist of the Customer Charge, commodity charge, late charge, and right-of-way toll per Billing Period.



Added: 03/23/01 Amended: 10/01/03; 03/01/05; 09/20/06; 05/21/09; 01/21/10; 01/19/12; 01/01/15; 04/19/17; 05/01/18

Truckee Meadows Water Authority

RATE SCHEDULES

LVS – LARGE VOLUME RESALE SERVICE

SPECIAL CONDITIONS

1. A written contract for delivery of water between the Authority and Customer will be required. The contract shall require the Customer to distribute water within a mutually agreeable specified geographic area, or use water for a mutually agreeable specified purpose.
2. The Customer shall pay all interconnection costs necessary to provide delivery of water per this Rate Schedule, consistent with the Authority's Rules. Any exceptions to this provision will be clearly delineated in the contract.
3. This Rate Schedule is closed to new applications for the delivery of water through a 3" Service Connection.
4. The Authority, in agreement with Customers billed under this Schedule, may annually adjust the tier usage level in this schedule which adjustment would be effective the first billing cycle in June. The adjustment made to each Customer's tier would be based on the average usage of the preceding Winter Usage.

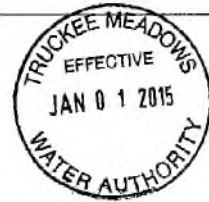


Added: 03/23/01 Amended: 10/01/03; 03/01/05; 05/21/09; 02/17/10; 01/19/12; 01/24/14; 01/01/15

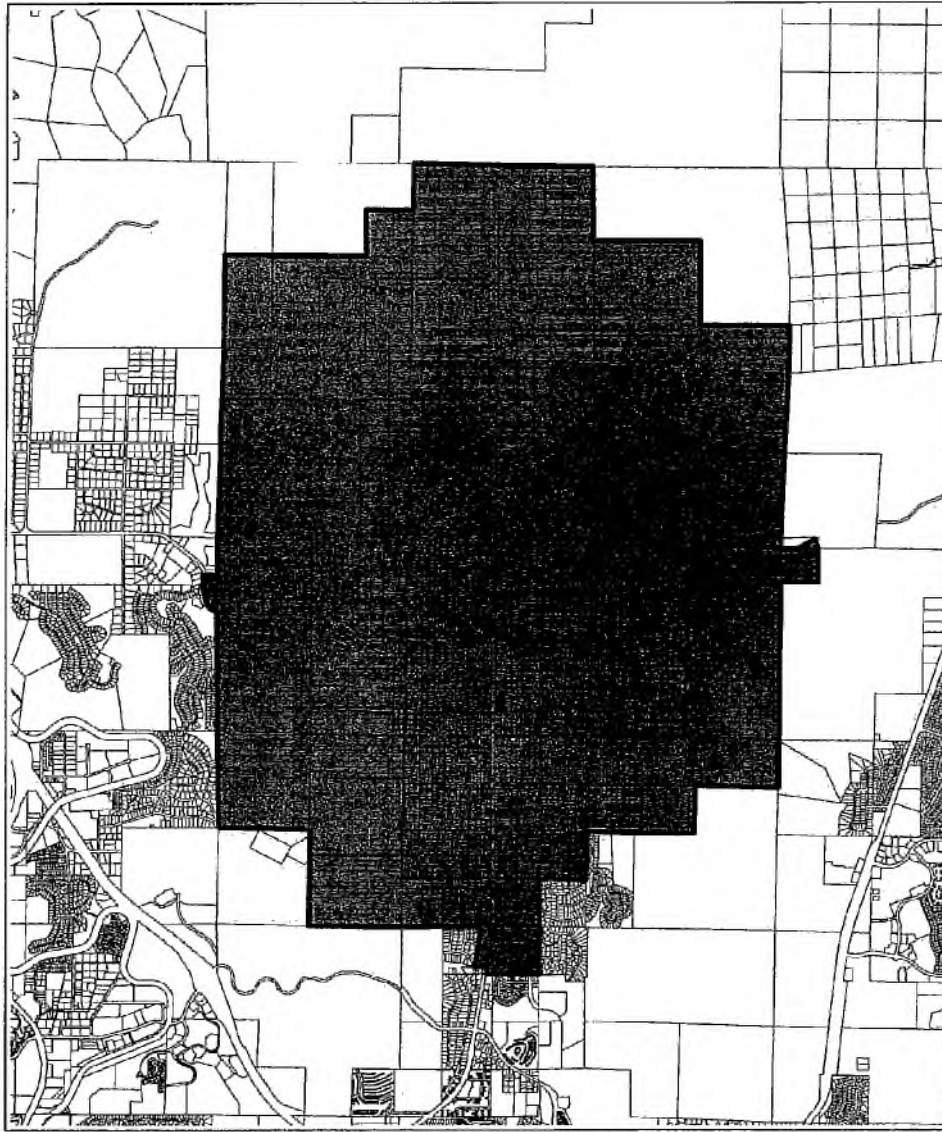
Truckee Meadows Water Authority

RATE SCHEDULES

LVS – LARGE VOLUME RESALE SERVICE



PARCEL A - Sun Valley General Improvement District Wholesale Service Area



NOTE: The wholesale service areas within this schedule are the approximate boundaries of the wholesale Customer and are subject to occasional adjustment by the wholesale Customer and Authority. The Authority attempts to keep a current map posted on its website, at www.tmwa.com; however, this map may not show sufficient detail to depict location of a Service Property precisely which the Authority will determine at the time of application.

Added: 01/01/15

Truckee Meadows Water Authority

RATE SCHEDULES

FSPR – FIRM STANDBY AND PARTIAL REQUIREMENTS

APPLICABILITY

Firm Standby/Partial Requirements Service is available, at the sole discretion of the Authority, to Customers where: (1) none of their water requirements are supplied by the Authority and the Authority agrees to provide standby water service or, (2) only a portion of their normal daily water requirements are supplied by the Authority and the Authority agrees to supply partial water requirements.

AVAILABILITY

Firm Standby/Partial Requirements Service is available from existing Facilities of the Authority located within its water service territories.

RATES

Customer Charge per Meter per Billing Period \$134.20

Commodity Charge per 1,000 Gallons. All Meter Sizes

Per Billing Period \$1.04

Demand Charge

Per Billing Period in the On-Peak Period:

Per 1,000 Gallons of Contract Demand \$15.01
plus

Per 1,000 Gallons of Actual Demand above
the Contract Demand up to the Allowable Variance \$90.07
plus

Per 1,000 Gallons for which the Actual Demand
exceeds the Contract Demand including the Allowable
Variance \$180.14

Per Billing Period in the Off-Peak Period:

Per 1,000 Gallons of Contract Demand \$15.01

Late Charge

5% of any amount in arrears from previous billings.



Added: 03/23/01 Amended: 10/01/03; 03/01/05; 05/21/09; 02/17/10; 01/19/12; 01/24/14; 01/01/15; 04/19/17; 05/01/18

Truckee Meadows Water Authority

RATE SCHEDULES

FSPR – FIRM STANDBY AND PARTIAL REQUIREMENTS

Other Charges

As specified in Rate Schedule OC excluding Regional Water Management Fee and applied to total bill.

MINIMUM CHARGE

The Minimum Charge for delivery of water for this service shall be the sum of the Customer Charge, commodity charge, demand charge, late charge, and right-of-way toll per Billing Period.

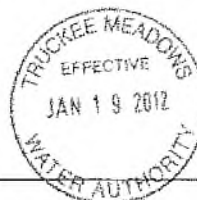
SPECIAL DEFINITIONS

1. **Contract Demand:** Contract Demand is defined as the Customer's maximum firm daily capacity (in thousands of gallons) for which Authority will standby for or provide as partial requirements during the On-Peak Period. The Contract Demand designation shall also set the Customer's maximum daily usage to be served by Authority during the Off-Peak Period. Usage may be subject to curtailment/interruption by Authority per Special Condition No. 1 of this Rate Schedule. The Contract Demand shall be designated in the contract for service and is subject to adjustment by Authority pursuant to the terms of Special Condition No. 5 of this Rate Schedule.
2. **Actual Demand:** The Actual Demand is defined as the maximum metered daily usage occurring in the Billing Period.
3. **Allowable Variance:** The allowable variance amount is 5% above the Contract Demand during the On-Peak Period, unless another variance amount is specified in the contract for service.

SPECIAL CONDITIONS

1. A contract for service between the Authority and the Customer will be required for delivery of water under this Rate Schedule. The service contract shall require the Customer to distribute water within a mutually agreeable specified geographic area and/or use water for a mutually agreeable specified purpose. The service contract shall include but is not limited to the level of firm service required by the Customer over the term of the agreement (i.e., the Contract Demand), conditions for the termination and extension of delivery of water, requirements as to water resources sufficient to supply water, the specific delivery requirements of the Customer, conditions of delivery, provisions outlining possible service interruptions or

Added: 03/23/01 Amended: 10/01/03; 01/19/12



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curtailments, and, where appropriate, assurances of financial security sufficient to ensure payment of all charges for delivery of water.

2. Delivery of water hereunder is available to Customers with firm standby or partial water requirements who own and operate their distribution system and are capable of supplying all or a portion of their water supply, daily storage, fire protection, maintenance, billing, etc.
3. Customer shall take delivery of water at a point within or adjacent to the Authority's existing distribution Facilities of adequate capacity to provide required delivery of water, or shall pay Authority's entire cost for providing such facilities.
4. The Customer shall provide and install the necessary Meter Facilities, inclusive of the Meter and, if required by the Authority, telemetry equipment necessary for daily meter readings as well as any other equipment required for delivery of water hereunder including flow control devices, piping, and other related equipment. All required equipment and facilities shall be installed in accordance with Authority specifications and in a location that is mutually acceptable. Meter and Meter Facilities shall remain under the sole ownership and operation control of the Authority, unless otherwise specified by the Authority.
5. Contract Demand Adjustment: The established Contract Demand may be adjusted by the Authority to a higher, permanent level if:
 - (i) the Customer's Actual Demand exceeds the existing Contract Demand by ten (10) percent or more two (2) times in the On-Peak Period over any consecutive 24 month period, or
 - (ii) if the Customer's Actual Demand exceeds the existing Contract Demand by twenty (20) percent or more in any month of the On-Peak Period.

If either of these two conditions is met, the Customer's Contract Demand may be reset to the highest Actual Demand imposed by the Customer during the On-Peak Period in the last 24 months.

6. Special Condition No. 5 above shall not apply during periods of legitimate emergency, beyond the control and foresight of the Customer, which require the Authority to deliver water in excess of the Contract Demand. The Customer must notify the Authority of any emergency situation requiring the Authority to deliver water in excess of the Contract Demand. If an emergency arises, the Customer shall notify the Authority with reasonable speed, verbally or by phone, specifying the nature of the emergency, the estimated quantity of water to be delivered, the time at which the emergency began, and the time at which the emergency ended.

Added: 03/23/01 Amended: 10/01/03; 01/19/12; 01/01/15



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7. The Authority is not obligated to provide service to a Customer at levels of capacity that exceed the Contract Demand in the Off-Peak or On-Peak Period. Service in excess of the Contract Demand may be subject to curtailment or total interruption by Authority at its sole discretion. If usage above the established Contract Demand occurs in the On-Peak Period the Authority may adjust the Customer's Contract Demand upward pursuant to Special Condition No. 5 above. In accordance with Special Condition No. 6 above, the Authority shall try to accommodate a Customer's requirements for water deliveries in excess of the Contract Demand when an emergency situation exists.

8. The Authority is not obligated to deliver water at total annual volumes or quantities of water in excess of the level specified in the contract for service. Delivery of water in excess of the annual quantities designated may be subject to curtailment or total interruption by the Authority at its sole discretion.



Added: 03/23/01 Amended: 10/01/03; 01/19/12

Response to Nitrate Concerns Memorandum



DATE: January 30, 2024
TO: Ellen Messinger-Patton Northern Nevada Public Health
FROM: Tyler Sproule, Project Hydrogeologist
CC: Great Basin Water Company – Spanish Springs Division
SUBJECT: Response to Nitrate Concerns (Water System NV0001068)

This brief Technical Memorandum (TM) is in response to Northern Nevada Public Health's (NNPH) email to Great Basin Water Company – Spanish Springs Division (GBWC-SSD) on September 20, 2023. The NNPH email detailed concerns regarding nitrate concentrations in source water from GBWC-SSD wells following a compliance sampling event on September 1, 2023. While the samples did not exceed the maximum contaminant level (MCL) of 10 milligrams per-liter (mg/L) established by the U.S. Environmental Protection Agency (EPA), NNPH stated that the concentrations revealed an upward trend of nitrate concentrations in the system over time. NNPH requested that GBWC-SSD provide a contingency plan outlining the steps that the utility would take to mitigate nitrate concentrations in the event that exceedances occur in the future.

GBWC-SSD is currently assessing multiple options to identify which approach is most prudent for its water system and customers. The options being evaluated are summarized below:

1. Secure a new groundwater source location with lower nitrate concentrations relative to the existing two GBWC-SSD wells. A new municipal groundwater production well would likely be the only available type of new water source in this region, as there are no viable surface water sources within the GBWC-SSD service area. GBWC-SSD has completed substantial exploration efforts for a new potential groundwater source within the service area. These efforts have included three test boreholes and three test wells completed throughout the GBWC-SSD service area. Substantial investigations were completed for the most recent test well including zone testing, dynamic profiling, and packer testing with the objective of better constraining the production capacity and water quality of the aquifer. Groundwater exploration efforts have encountered significant challenges due to factors including complex basin geology and structure, water quality (i.e., arsenic, nitrate), and limited area to locate a new well (small service area, dense development, proximity of septic tanks). Lumos and GBWC-SSD also exchanged hydrogeologic data and findings with Truckee Meadows Water Authority (TMWA) to establish a more detailed understanding of the Spanish Springs Basin. All of GBWC-SSD's recent groundwater exploration efforts are summarized in the *Great Basin Water Company Spanish Springs Division Groundwater Exploration Comprehensive Report* completed in October 2023 (see attached report).
2. Pursue nitrate treatment via TMWA's future water treatment system. GBWC-SSD collaborated with TMWA in a *Groundwater Blending and Treatment Evaluation for Spanish Springs Nitrate Treatment*; a draft memorandum describing this work was completed in January 2024. GBWC-SSD contributed financially towards this treatment study in addition to sharing data. A pilot study was completed to gauge the effectiveness of treating produced groundwater prior to proceeding with a full-scale treatment facility. The treatment stages included granular activated carbon (GAC) and filter sand. TMWA obtained favorable results from the pilot study and continued to pursue the full-scale implementation of a treatment plant. This creates the potential for GBWC-SSD to connect to the

TMWA treatment system in the future. While this approach would likely be effective for mitigating nitrate concerns, it may present a substantially higher cost than other alternatives. GBWC-SSD would need to construct a new, dedicated pipeline to connect to the treatment plant. They would also be responsible for financial contributions to the treatment plant, including for operation and maintenance (OM) costs. A complete summary of TMWA's treatment approach is detailed in the January 2024 draft memorandum completed by Carollo (See attached report).

3. Construct localized nitrate treatment infrastructure within the GBWC-SSD system. This would involve constructing and interfacing treatment systems for nitrate (and potentially arsenic) at the GBWC-SSD well locations. The cost of this treatment approach would likely be significantly lower than for connecting to the TMWA treatment system. However, installation of a treatment system at the Suki Well (Well #2) location may not be feasible due to the limited space and access at the well site property. The Bridle Path Well (Well #1) has much more reasonable access and space to accommodate this work. If the localized treatment alternative is pursued, rehabilitation work would be completed for both wells prior to installing treatment infrastructure.

As previously mentioned, GBWC-SSD is still in the process of evaluating the options that are provided above and is currently working to establish a path forward to address nitrate concerns in the system. GBWC-SSD's objective is to identify the most prudent approach to serve the existing water system and its customers. If you have any questions regarding this TM, please contact me at (775) 827-6111.

Sincerely,



Tyler Sproule; Project Hydrogeologist