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## Kent County Water Authority Distribution Storage Tank Hydraulic Evaluation

### Technical Memorandum No. 5B Available Fire Flow Analysis of Future Conditions April 2007 (Revised December 2007)

#### 1.0 Purpose and Scope

An analysis of the entire water distribution system under future demand conditions was performed utilizing the hydraulic model in order to determine available fire flow rates throughout the water system. This included performing an evaluation to determine the fire flow rate in gallons per minute (gpm) that is available at each of the junction nodes within the model. Junction nodes, as represented in the model, are generally identified as a point in the water distribution system where water mains are joined or meet (i.e. street intersections), where a change occurs in pipe diameter, age or material, at dramatic changes in elevation, or at abrupt changes in pipeline direction. The junction nodes within the model are not intended to replicate the physical location of hydrants within the distribution system however the junction nodes do provide a good overall indication of available fire flow on a particular water main on which hydrants are located.

Fire flows were also calculated at junction nodes on water mains on which hydrants may not be located. These could include transmission water mains and water mains that are less than six inches in diameter and where it is not practical to install fire hydrants due to low flow rates. Smaller diameter water mains are generally located in the older developed sections of the water system and include 4, 2 and 1 inch and smaller diameter. It is generally considered prudent practice that water utilities have a long-term plan for replacement of water mains that are less than 6 inches in diameter. Replacement water mains should be at minimum 6 inches in diameter and preferably 8 inches to maximize fire flow availability.

It was intended that this fire flow analysis provide the Authority with an overall indication of available fire flow rates throughout the entire system under the anticipated future demand conditions without regard to size of water main or hydrant location. With this information, it is possible to determine if the calculated available fire flow rate at specific locations within the water system are adequate.

#### 2.0 Available Fire Flow Analysis

##### 2.1 Assessment Criteria

The model calculations for fire flow were premised on having available a minimum of 20 psi residual pressure at the flow location under a future (20 year) maximum day demand condition in accordance with American Water Works Association (AWWA) M32, Distribution Network Analysis for Water Utilities and AWWA M31, Distribution System Requirements for Fire Protection. M31 and M32 also stipulate that the minimum residual system wide pressure (i.e. other locations in the water system away from the fire flow location) under a fire flow condition should be 20 psi. Further, according to M31 and M32, the volume of the fire flow over its required duration should be available from the system's water storage tanks. These constraints must also be met with system operations consisting of removing the largest

pumping facility (or largest pump in a pump station facility) from service with an appropriate number of remaining pumps in service to meet system demands. ISO also requires that the fire flow be superimposed upon the maximum day domestic demand.

The above criteria were utilized to the extent practical when performing the model simulations. There are however limitations in the ability of the model software to perform calculations under this criteria which was evident at particular junction nodes in the system. Adjustments were also necessary in the initial settings for the model simulations. Most notably this included those junction nodes in the Authority's model, which under normal conditions have a static pressure (i.e. non fire flow condition) that is under 20 psi. Junction nodes within the model with pressures of 20 psi or lower predominately occur in the Low Service Pressure Gradient at higher service elevations, at the base of ground storage tanks, transmission mains without services and on the suction side of booster pump stations.

The location of these identified "low pressure" areas is as follows. These include areas that have marginal pressure (20 psi and less) and areas that have pressures below the 35 psi regulatory standard of the Authority Regulations when Clinton Avenue Pump Station is in operation. It should be noted that all the identified locations may not directly impact service customers as these locations could occur at high points along transmission mains with no services, areas around storage reservoirs and the suction side of booster pump stations. These locations are depicted on a system map in Attachment No. 1.

### LOCATIONS IN SYSTEM WITH PRESSURES BELOW 20 PSI

SERVICE PRESSURE ZONE	STREET	LOCATION/APPROXIMATE INTERSECTION	ELEVATION RANGE (FEET)	CALCULATED PRESSURE	CUSTOMER SERVICES (Y/N)	SITE
Low	Cowesett Road	Kulas Road to Fairgreen Drive	206 - 280	19 psi	Y	1
Low	South County Trail *	EG Medical Center to Pine Glen Drive	249 - 303	12 psi – 34 psi	Y	2
Low	Signal Ridge Way	Boulder Way to Division Street	270 - 290	18 psi – 27 psi	Y	3
Low	Lane A	Morningside Drive to Lane E	250 - 294	18 psi – 31 psi	Y	4
Low	Tiogue Avenue *	Jennifer Lane to Holloway Avenue	264 - 301	12 psi – 28 psi	Y	5
Low	Knotty Oak Road	Maple Street to Long Pond Road	273 - 302	14 psi – 34 psi	N	6
Low	Knotty Oak Road	White Rock Drive to Highwood Drive	279 - 315	9 psi – 24 psi	N	7
Low	Knotty Oak Road	Gervais Street to Oak Way	300	15 psi	N	8
Low	East Greenwich Avenue *	Juniper Drive to Setian Lane	259 - 295	16 psi – 32 psi	N	9

## LOCATIONS IN SYSTEM WITH PRESSURES BELOW 35 PSI

SERVICE PRESSURE ZONE	STREET	LOCATION/APPROXIMATE INTERSECTION	ELEVATION RANGE (FEET)	CALCULATED PRESSURE	CUSTOMER SERVICES (Y/N)	SITE
Low	Cowesett Road	Church Street to Narragansett Avenue	235 - 260	28 psi - 34 psi	Y	10
Reduced Low	Windermere Way	Love Lane to Lantern Lane	180 - 205	27 psi - 34 psi	Y	11
Reduced Low	Love Lane*	Overhill Road to Cedar Street	204 - 205	27 psi - 29 psi	Y	12
Low	Major Potter Road*	Quaker Lane to Eagle Run	265	29 psi	N	13
Low	Division Street	Brooks Pharmacy Headquarters to Old Quaker Lane	243 - 275	24 psi	Y	14
Reduced Low	Mayflower Drive	Crest Ridge Drive to Bunker Hill Lane	170 - 201	29 psi - 34 psi	Y	15
Low	Frenchtown Road*	Cardinal Lane to High Hawk Road	266 - 276	29 psi	N	16
Low	Lynn Circle	Darl Court to Fernwood Drive	230 - 280	22 psi - 34 psi	Y	17
High	Carr Pond Road*	Carr Pond Tank to Deer Run Drive	410 - 430	28 psi - 33 psi	Y	18
Low	Greenbush Road	New London Turnpike to Bratt Lane	255 - 280	22 psi - 33 psi	N	19
Low	Arnold Road*	Larch Drive to Acorn Street	228 - 280	20 psi - 34 psi	Y	20
Low	Nooseneck Hill Road	Reservoir Road to Comfort Way	256 - 282	26 psi - 34 psi	Y	21
Low	Main Street (COV)	Batthey Avenue to Sandy Bottom Road	234 - 255	34 psi	Y	22
Low	Laurel Avenue	Pilgrim Avenue to Princeton Avenue	228 - 267	28 psi - 34 psi	Y	23
Low	Hope Furnace Road	Howard Avenue to Colvintown Road	249 - 270	31 psi	Y	24
Low	North Road	White Lane to Blossom Lane	240 - 271	31 psi	Y	25
Low	Cranberry Drive	Mitchell Way to Kerri Court	240 - 276	29 psi	Y	26
Low	Blackrock Road*	Gervais Street to Country View Drive	250 - 270	28 psi	N	27
Low	Phenix Avenue	Harding Street to Garnet Street	245 - 273	26 psi - 33 psi	Y	28
Low	Fairview Avenue	Spencer Street to Marshall Circle	235 - 272	24 psi - 34 psi	Y	29
Low	New London Avenue	Factory Street to Iron Drive	231 - 261	27 psi - 33 psi	Y	30
Low	Macarthur Boulevard	Yates Avenue to Knight Street	245 - 273	25 psi - 30 psi	Y	31

Low	Beauchene Street	East Street to West Street	170	25 psi	Y	32
Low	River Run	Rosewood Court to Quail Court	249 - 260	29 psi - 32 psi	Y	33
Reduced High	Nooseneck Hill Road	Brant Trail to End of KCWA System	300 - 354	34 psi	Y	34
Low	Hornbeam Road	Mountain Laurel Drive to Hawthorne Road	250 - 260	33 psi	Y	35
Low	Hornbeam Road	Mountain Laurel Drive to Hawthorne Road	232 - 265	31 psi	Y	36
Low	Paddock Drive	Cowesett Road to Martingale Drive	230 - 243	33 psi	Y	37

\* Denotes area of low pressure that consists of a transmission main, area near storage reservoir and the suction side of booster pump station.

The model simulations were initialized with the criteria that the fire flow location must have a residual pressure of 20 psi. At all junction nodes which had a static pressure of 20 psi or lower, the model could not compute an available fire flow as the boundary conditions of 20 psi were satisfied and calculations could not be performed. Therefore, the available fire flow results for these junction nodes are reported as 0 gpm.

Additionally, the criteria of maintaining a minimum system wide residual pressure of 20 psi could not be achieved due to those nodes with initial pressures of less than 20 psi. The model could not perform fire flow calculations as again the boundary conditions of maintaining a system wide 20 psi residual pressure was satisfied prior to performing any simulations. It was therefore necessary to initialize the model simulations with a boundary condition of 0 psi as the minimum criteria for system wide residual pressure. This would insure that no areas in the system would experience negative pressures and allow the model software to perform fire flow calculations.

This is considered an acceptable approach as the areas within the distribution system with less than 20 psi have been previously identified. Further, there are also locations in the distribution system with pressures less than 20 psi that do not have customer services (i.e. base or ground storage tanks and transmission mains). These locations are considered acceptable by water works standards and do not require correction.

## 2.2 Available Fire Flow Rate Analysis

The criteria utilized to determine the available fire flow rates included specifying a minimum fire flow of 500 gpm and a maximum fire flow of 3,500 gpm at each of the junction nodes. These fire flow rates correspond to the upper and lower ranges in the model for purposes of this analysis. These rates are characteristic for a service territory such as the Authority's that consists of a mixed use of urban, suburban, commercial and industrial uses. These fire flow results should not be utilized to evaluate individual facilities or developments but rather they provide a general indication as to the available fire flow rate that would be available in a general area. Specific developments and facilities need to be evaluated on an individual basis.

Also, as previously indicated all fire flow rates were determined based upon a minimum residual pressure of 20 psi at the fire flow location and a minimum system wide residual pressure of 0 psi. It was necessary to establish the minimum system wide residual pressure at 0 psi due to the fact that there exist locations within the distribution system that routinely experience pressures below 20 psi during non-fire flow conditions. These predominately include the higher service elevations, ground elevations at reservoirs and tanks, suction side of pump stations, etc.

Fire flow simulations were then completed on a system-wide basis for every junction node in the hydraulic model. The results are presented in tabular form in Appendix A and B. Appendix A contains a table of all junction nodes with fire flows ranging from 0 gpm (i.e. those nodes with static pressures less than 20 psi and for which no fire flow could be calculated) to 999 gpm in ascending order. The table identifies the label for the junction node, which corresponds to the location on the model node and pipeline plan, the calculated available fire flow and corresponding residual pressure at the flow location, the calculated minimum zone pressure with identifying junction node number and the street/location of the junction node at which the fire flow rate was simulated.

Appendix B contains a table of all junction nodes with fire flows ranging from 1,000 gpm up to a maximum of 3,500 gpm in ascending order. Similar to Appendix A, this table identifies the label for the junction node, which corresponds to the location on the model node and pipeline plan, the calculated available fire flow and corresponding residual pressure at the flow location and the calculated minimum zone pressure with identifying junction node number.

When reviewing results data in Appendix A and B, it is important to consider the manner in which the hydraulic model software computes the available fire flow rate. The model will compute the available fire flow rate at a particular junction node and terminate the analysis when one of two conditions occurs. These conditions include either the residual pressure at the flow location is calculated down to 20 psi or the residual pressure at any junction node within the system is calculated down to 0 psi. In the case where any fire flow simulation indicates that the 0 psi system wide residual pressure was achieved, the pressure at the fire flow location was not driven down to 20 psi. If an analysis for any junction node was terminated before the pressure at the fire flow location was driven down to 20 psi then additional fire flow would be available at the particular junction node if the location of the 0 psi junction node was in the future corrected (i.e. increase the pressure at this node).

It is critical when reviewing results data of available fire flows to consider this possibility. If for example this junction node that was solved at 0 psi in the model were to be re-serviced at some point in the future, then the available fire flow at that particular junction node would need to be recalculated. The analysis would then be performed until the model simulation solved the pressure at the flow location down to 20 psi or another location (junction node) in the system was solved down to 0 psi.

### **2.3 Available Fire Flow Results and Mapping**

To assist in locating specific areas of calculated available fire flow rates on a system wide basis, the model node and pipeline plan was utilized. Fire flow rates from the junction nodes were categorized into the ranges, were color coded and mapped on the node and pipeline plan. As a means to compare available fire flow rates to conditions in the system, which could adversely affect fire flows, two additional maps were prepared. These included a color-coded map of all pipelines in the system which are 6 inches in diameter and smaller and a contour map of previously determined (reference TM 5A) serviceable elevations in the Low and High Service Gradients.

The pipeline diameter and contour maps are presented on the same map as the available fire flow map for purpose of comparison. The intent is to permit a comparison of areas within the system that contain pipelines less than 6 inches in diameter with areas in the system with available fire flows of less than 1,000 gpm. If a particular area has a calculated fire flow of less than 1,000 gpm, the pipeline diameter map can be used to indicate if this same area also has pipelines that are less than 6 inches in diameter. Generally, pipelines that are 6 inches in diameter and less are inadequate in capacity to support fire flows of 1,000 gpm or higher and could in part be contributing to a "low" calculated available fire flow at this particular location. This map is provided as Attachment No. 2.

Similarly, a contour map of the entire distribution system was presented on the same sheet as the available fire flow map for purpose of comparison. The contour map depicts those areas in the Low and High Service Gradients that are above the “serviceable” elevations. The serviceable elevations for customers for the Low Service were determined to be 244 feet and as such the contour map depicts those areas in the service area above 244 feet. The serviceable elevations for customers for the High Service were determined to be 405 feet and as such the contour map depicts those areas in the service area above 405 feet. The intent is to permit a comparison of areas within the system that are above the serviceable elevations with areas in the system with available fire flows of less than 1,000 gpm. If a particular area has a calculated fire flow of less than 1,000 gpm, the contour map can be used to indicate if this same area also has high elevations, which may have low pressures. High customer service elevations could in part be contributing to a “low” calculated fire flow at this particular location. This map is provided as Attachment No. 3.

The identification on the available fire flow maps included color-coding the pipe segments on which the particular junction nodes were located. If two adjoining junction nodes on a pipe segment had different ranges for fire flow rates, the lesser fire flow rate was utilized to identify the pipe segment. The following provides the ranges of fire flow rates that were identified on the plan.

<u>Fire Flow Rates</u>	<u>Mapped Color Code</u>
0 gpm – 499 gpm	Green
500 gpm – 649 gpm	Cyan
750 gpm – 999 gpm	Purple
1,000 gpm – 3500 gpm	Black

The locations within the distribution system that exhibited the lowest fire flow rates (i.e. less than 1,000 gpm) were located within the Low Service Gradient and in the older developed sections of West Warwick and Coventry. The map in Attachment No. 2, which depicts fire flow rates compared to pipelines that are under 6 inches in diameter, indicates that a large majority of the fire flow rates under 1,000 gpm are within those areas that have pipelines under 6 inches in diameter.

The map in Attachment No. 3 which depicts contours above the serviceable elevations of 244 feet and 405 feet respectively indicates that these areas typically have fire flow rates under 1,000 gpm. Additionally, there are a number of locations within the Low Service Gradient portion of the distribution system with available fire flows less than 1,000 gpm that have both pipelines under 6 inches in diameter and are above the serviceable elevation of 244 feet.

### **3.0 Summary**

The intent of this evaluation was to utilize the existing computer hydraulic model to calculate available fire flow rates throughout the entire water distribution system under the anticipated future demand condition. The results were then tabulated and provided on a color-coded map.

The map provides a general indication as to the available fire flow rates within the system under the conditions as described herein. The use of the information presented on this map should be prefaced within the context of the assumptions and “boundary” conditions, which were utilized to perform these model evaluations. It is critical to note the following:

- Fire flow calculations were performed under a future maximum day demand condition. Fire flow rates will vary under other future demand conditions (i.e. average day and peak hour).
- The fire flow calculations were performed individually at each location. The calculated fire flows are representative of the available capacity in the water main at this particular location and do not

represent that this fire flow is directly available from a single hydrant assembly or hose connection. These fire flow rates are exclusive in that each represents an available fire flow rate at a specific location. In other words, the individual results calculated for each junction node cannot be combined to represent total available fire flow.

- The calculation of fire flow rates was premised on maintaining a residual pressure of 20 psi at the flow location and a minimum system wide residual pressure of 0 psi. Commonly, fire flow results are calculated with a minimum 20 psi system wide residual pressure however the Authority has areas within the system with static pressures that are less than 20 psi. These areas were identified in the text of this evaluation. It was therefore necessary to set the boundary condition for system wide residual pressure at 0 psi.
- In certain instances, the residual pressure at the flow locations was not driven down to 20 psi as another location in the distribution system was calculated to have a pressure of 0 psi. In the event that location of the residual system pressure was calculated to 0 psi is also a location of substandard pressure, which in the future if corrected, then the available fire flow at the flow location could be calculated at a higher rate.
- Fire flow rates were calculated for all junction nodes and water main sections in the system. The results map does not imply that a particular water main has fire hydrants or is used for fire fighting purposes. For example, small diameter service mains (i.e. 1 and 2 inch) will likely not have hydrants however fire flow rates were calculated for these mains. When reviewing results for a particular location additional information such as the location and number of hydrants should also be considered.
- Fire flow results should also be viewed in the context of pipeline size (those mains less than 6 inches in diameter) and elevation (areas in the system over defined serviceable elevations) as provided on the mapping in Attachment No. 2 and 3.

## Appendix A

Available Fire Flow by Junction Node (0 gpm – 999 gpm)



Kent County Water Authority  
Future 20 Year Available Fire Flows

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction	Street/Location
J-1086	500	0	503.59	3.59	20	0.87	J-1296	Greenbush Rd.
J-1112	500	0	503.59	3.59	18.21	0.87	J-1296	East Greenwich Ave.
J-1115	500	0	503.59	3.59	18.19	0.87	J-1296	East Greenwich Ave.
J-1118	500	0	503.59	3.59	15.99	0.87	J-1296	East Greenwich Ave.
J-1296	500	0	500	0	0.87	4.34	J-7718	Providence Water Interconnection PS
J-2163	500	0	503.95	3.95	19.18	0.87	J-1296	Hedgerow Dr.
J-2200	500	0	503.95	3.95	19.78	0.87	J-1296	Hedgerow Dr.
J-2326	500	0	503.95	3.95	18.31	0.87	J-1296	Martingale Dr.
J-262	500	0	503.59	3.59	16.69	0.87	J-1296	Tanglewood Dr.
J-381	500	0	503.59	3.59	8.37	0.87	J-1296	Cowesett Rd.
J-4140	500	0	504.45	4.45	17.7	0.87	J-1296	Signal Ridge Way
J-439	500	0	503.59	3.59	19.44	0.87	J-1296	Cowesett Rd.
J-440	500	0	503.59	3.59	18.93	0.87	J-1296	Berkeley St.
J-4640	500	0	502.8	2.8	13.59	0.87	J-1296	EG Medical Center Domestic Line
J-4641	500	0	502.8	2.8	11.86	0.87	J-1296	EG Medical Center Domestic Line
J-6076	500	0	500	0	18.17	7.32	J-8307	Clinton Ave. HS PS Suction
J-6078	500	0	500	0	18.17	7.32	J-8307	Clinton Ave. HS PS Suction
J-7350	500	0	503.04	3.04	13.82	0.87	J-1296	Lane A (Private)
J-7351	500	0	503.04	3.04	13.82	0.87	J-1296	Lane A (Private)
J-7352	500	0	503.04	3.04	14.25	0.87	J-1296	Lane A (Private)
J-7353	500	0	503.04	3.04	19.87	0.87	J-1296	Lane A (Private)
J-7354	500	0	503.04	3.04	7.33	0.87	J-1296	Lane A (Private)
J-7355	500	0	503.04	3.04	8.62	0.87	J-1296	Lane A (Private)
J-7356	500	0	503.04	3.04	10.79	0.87	J-1296	Lane A (Private)
J-7357	500	0	503.04	3.04	9.06	0.87	J-1296	Lane C (Private)
J-7358	500	0	503.04	3.04	14.68	0.87	J-1296	Lane C (Private)
J-7359	500	0	503.04	3.04	11.65	0.87	J-1296	Lane D (Private)
J-7360	500	0	503.04	3.04	16.41	0.87	J-1296	Lane A (Private)
J-7361	500	0	503.04	3.04	14.25	0.87	J-1296	Lane E (Private)
J-7417	500	0	503.04	3.04	17.84	0.87	J-1296	Robbins Dr.
J-7418	500	0	503.04	3.04	16.54	0.87	J-1296	Robbins Dr.
J-7422	500	0	503.04	3.04	21.89	0.87	J-1296	Carr's Tr.
J-7423	500	0	503.04	3.04	21.52	0.87	J-1296	Barber St.
J-7433	500	0	503.04	3.04	19.21	0.87	J-1296	Sunapee Ct.
J-7485	500	0	503.04	3.04	19.82	0.87	J-1296	Sand St.
J-7487	500	0	503.04	3.04	15.06	0.87	J-1296	Overview Dr.
J-7488	500	0	503.04	3.04	15.06	0.87	J-1296	Overview Dr.
J-7489	500	0	503.04	3.04	15.06	0.87	J-1296	Oak Rd.
J-7490	500	0	503.04	3.04	15.06	0.87	J-1296	Pine Ave.
J-7518	500	0	503.04	3.04	19.56	0.87	J-1296	Johnson Blvd.
J-7519	500	0	503.04	3.04	16.53	0.87	J-1296	Majorie St.
J-7522	500	0	503.04	3.04	14.79	0.87	J-1296	Nancy St.
J-7523	500	0	503.04	3.04	14.79	0.87	J-1296	Nancy St.
J-7524	500	0	500	0	15.65	0.87	J-1296	Johnson Blvd. PS Suction
J-7525	500	0	503.04	3.04	16.29	0.87	J-1296	Johnson Blvd. PS Suction
J-7548	500	0	503.04	3.04	12.24	0.87	J-1296	Quiet Ave.
J-7549	500	0	503.04	3.04	11.37	0.87	J-1296	Quiet Ave.
J-7550	500	0	503.04	3.04	11.37	0.87	J-1296	Cape Way
J-7551	500	0	503.04	3.04	15.27	0.87	J-1296	Beechwood St.
J-7555	500	0	503.04	3.04	8.18	0.87	J-1296	Lydia Rd.
J-7556	500	0	503.04	3.04	12.17	0.87	J-1296	Vera Rd.
J-7557	500	0	503.04	3.04	11.38	0.87	J-1296	Grant Dr.
J-7558	500	0	503.04	3.04	8.06	0.87	J-1296	Lydia Rd.
J-7559	500	0	503.04	3.04	8.01	0.87	J-1296	Lydia Rd.
J-7560	500	0	503.04	3.04	8.35	0.87	J-1296	Tulip Rd.
J-7561	500	0	503.04	3.04	7.98	0.87	J-1296	Lydia Rd.
J-7562	500	0	503.04	3.04	7.97	0.87	J-1296	Jade Rd.
J-7563	500	0	503.04	3.04	7.97	0.87	J-1296	Jade Rd.
J-7564	500	0	503.04	3.04	8.32	0.87	J-1296	Myra Rd.
J-7584	500	0	503.04	3.04	16.61	0.87	J-1296	Arnold Rd.
J-7588	500	0	503.04	3.04	9.26	0.87	J-1296	Arnold Rd.
J-7591	500	0	503.04	3.04	13.67	0.87	J-1296	Tiogue Ave.
J-7617	500	0	503.04	3.04	14.54	0.87	J-1296	Jennifer Ln.
J-7619	500	0	503.04	3.04	18	0.87	J-1296	Jennifer Ln.
J-7712	500	0	503.04	3.04	9.41	0.87	J-1296	Knotty Oak Rd.
J-7713	500	0	503.04	3.04	15.47	0.87	J-1296	Foster Dr. (Private)
J-7714	500	0	503.04	3.04	10.84	0.87	J-1296	Knotty Oak Rd.
J-7715	500	0	503.04	3.04	10.86	0.87	J-1296	Knotty Oak Rd.
J-7718	500	0	503.04	3.04	4.34	0.87	J-1296	Knotty Oak Rd.
J-7719	500	0	503.04	3.04	19.91	0.87	J-1296	White Rock Dr.

Kent County Water Authority  
Future 20 Year Available Fire Flows

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction	Street/Location
J-7818	500	0	503.04	3.04	19.89	0.87	J-1296	Doolittle St.
J-7824	500	0	503.04	3.04	19.34	0.87	J-1296	Anderson Ave.
J-7825	500	0	503.04	3.04	19.36	0.87	J-1296	Macarthur Blvd.
J-7826	500	0	503.04	3.04	19.76	0.87	J-1296	Macarthur Blvd.
J-7827	500	0	503.04	3.04	19.8	0.87	J-1296	Doolittle St.
J-7831	500	0	503.04	3.04	19.36	0.87	J-1296	Dion Ave.
J-8038	500	0	500	0	15.36	0.87	J-1296	Johnson Blvd. PS Suction
J-8040	500	0	500	0	15.19	0.87	J-1296	Johnson Blvd. PS Suction
J-8042	500	0	500	0	15.19	0.87	J-1296	Johnson Blvd. PS Suction
J-8067	500	0	503.04	3.04	20.08	0.87	J-1296	Edward St.
J-8081	500	0	503.04	3.04	15.06	0.87	J-1296	Ridge Ave.
J-8083	500	0	503.04	3.04	12.25	0.87	J-1296	Powhatan Ave.
J-8084	500	0	503.04	3.04	11.38	0.87	J-1296	Powhatan Ave.
J-8222	500	0	500	0	4.56	0.87	J-1296	Tiogue Ave.
J-8234	500	0	500	0	11.26	0.87	J-1296	Knotty Oak Rd.
J-8306	500	0	500	0	12.52	0.87	J-1296	Nooseneck Hill Rd.
J-8307	500	0	500	0	7.32	18.17	J-6076	Read School House Rd.
J-8318	500	0	500	0	6.34	0.87	J-1296	Mishnock WTP PS
J-8319	500	0	500	0	6.49	25.95	J-1185	Mishnock WTP PS
J-879	500	0	503.59	3.59	21.07	0.87	J-1296	Hall St.
J-880	500	0	503.59	3.59	21.07	0.87	J-1296	Hall St.
J-983	500	0	500	0	18.15	0.87	J-1296	Flanders Ln.
J-1000	500	0.49	503.59	4.08	30.47	0.87	J-1296	Sisson St.
J-7544	500	0.49	503.04	3.53	20.4	0.87	J-1296	West Shore Dr.
J-7808	500	1.46	503.04	4.5	21.17	0.87	J-1296	Morin Ave.
J-814	500	1.46	503.59	5.05	30.65	0.87	J-1296	Cross St.
J-816	500	1.46	503.59	5.05	30.84	0.87	J-1296	Elm St.
J-7456	500	2.31	503.04	5.35	20.93	0.87	J-1296	Williams St.
J-643	500	2.44	503.59	6.03	20.52	0.87	J-1296	Kenyon St.
J-7883	500	2.51	503.04	5.55	20.52	0.87	J-1296	Hope View St.
J-613	500	2.93	503.59	6.52	20.43	0.87	J-1296	Valley View Dr.
J-7481	500	3.72	503.04	6.76	21.76	0.87	J-1296	Lakeside Dr.
J-7452	500	4.3	503.04	7.34	21.07	0.87	J-1296	Williams St.
J-7476	500	4.72	503.04	7.76	20.16	0.87	J-1296	Idaho St.
J-7432	500	5.13	503.04	8.17	20.01	0.87	J-1296	Sunapee Ct.
J-7431	500	5.16	503.04	8.2	20.41	0.87	J-1296	Stone St.
J-7477	500	5.22	503.04	8.26	20.18	0.87	J-1296	Colorado St.
J-656	500	5.37	503.59	8.96	22.57	0.87	J-1296	Greene St.
J-8082	500	5.74	503.04	8.78	21.03	0.87	J-1296	Beach St.
J-7421	500	5.79	503.04	8.83	20.76	0.87	J-1296	Barber St.
J-7479	500	6.51	503.04	9.55	20.32	0.87	J-1296	Idaho St.
J-178	500	7.32	503.59	10.91	22.46	46.4	J-166	Overhill Dr.
J-5117	500	7.32	503.31	10.63	22.95	39.86	J-5121	Hope Rd.
J-8102	500	8.01	503.04	11.05	20.36	0.87	J-1296	Lambert St.
J-629	500	8.07	503.59	11.66	20.18	0.87	J-1296	Hebert St.
J-586	500	8.59	503.59	12.18	21.97	0.87	J-1296	Hebert St.
J-2287	500	9.32	503.95	13.27	21.34	26.32	J-2508	Joyce Glen
J-2266	500	9.37	503.95	13.32	22.19	26.33	J-2508	Stiness Dr.
J-476	500	9.83	503.59	13.22	22.27	0.87	J-1296	Arthur St.
J-5120	500	10.25	503.31	13.56	20.59	3.71	J-5117	Hope Rd.
J-5121	500	10.25	503.31	13.56	20.54	3.66	J-5117	Hope Rd.
J-7545	500	10.58	503.04	13.62	20.27	0.87	J-1296	West Shore Dr.
J-854	500	10.63	503.59	14.22	23.97	0.87	J-1296	Youngs Ave.
J-7478	500	11.06	503.04	14.1	20.31	0.87	J-1296	Arizona St.
J-7450	500	11.33	503.04	14.37	20.87	0.87	J-1296	Rathbun St.
J-7575	500	11.43	503.04	14.47	20	0.87	J-1296	Arnold Rd.
J-7853	500	12.53	503.04	15.57	21.76	0.87	J-1296	Bassett St.
J-5127	500	13.22	503.31	16.53	24.42	46.44	J-166	Allard St.
J-443	500	14.65	503.59	18.24	22.08	0.87	J-1296	Winthrop Ave.
J-7582	500	14.76	503.04	17.8	20.21	0.87	J-1296	Harrington Rd.
J-7583	500	15.38	503.04	18.42	20.21	0.87	J-1296	Harrington Rd.
J-552	500	15.4	503.59	18.99	21.69	0.87	J-1296	Roosevelt St.
J-618	500	15.54	503.59	19.13	21.13	0.87	J-1296	Guertin St.
J-2258	500	15.98	503.95	19.93	21.65	26.31	J-2508	Bay Vista Pl.
J-321	500	16.28	503.59	19.87	20.68	0.87	J-1296	Lenox Ave.
J-7445	500	16.33	503.04	19.37	20	0.87	J-1296	Prospect Ave.
J-7860	500	16.94	503.04	19.98	21.21	0.87	J-1296	Bennett St.
J-610	500	17.17	503.59	20.76	21.24	0.87	J-1296	Middle St.
J-7473	500	17.74	503.04	20.78	20.42	0.87	J-1296	Alaska St.
J-5071	500	17.77	503.31	21.08	22.26	46.36	J-166	Gaunt Dr.

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J-894	500	18.37	503.59	21.96	21.01	0.87	J-1296	Nestor St.
J-1144	500	18.51	503.59	22.1	21.06	0.87	J-1296	Pearson St.
J-7922	500	18.77	503.04	21.81	21.87	0.87	J-1296	Notre Dame St.
J-2453	500	18.85	503.95	22.8	22.9	26.3	J-2508	Quinlan Ct.
J-7472	500	19.1	503.04	22.14	20.22	0.87	J-1296	Montana Ave.
J-2455	500	19.21	503.95	23.16	22.94	26.3	J-2508	Ironwood Ct.
J-7844	500	19.32	503.04	22.36	20.31	0.87	J-1296	Bates Ave.
J-8068	500	19.66	503.04	22.7	20.49	0.87	J-1296	Edward St.
J-576	500	20.02	503.59	23.61	21.52	0.87	J-1296	Lemoine Ct.
J-446	500	20.48	503.59	24.07	22.07	0.87	J-1296	Standard Ave.
J-7517	500	20.66	503.04	23.7	20	0.87	J-1296	Ledo St.
J-7480	500	20.87	503.04	23.91	20.2	0.87	J-1296	Lakeside Dr.
J-201	500	21	503.59	24.59	23.69	0.87	J-1296	Sheldon St.
J-7471	500	21.69	503.04	24.73	20.23	0.87	J-1296	Montana Ave.
J-1147	500	23.48	503.59	27.07	20.06	0.87	J-1296	Capron St.
J-7516	500	23.83	503.04	26.87	20	0.87	J-1296	Johnson Blvd.
J-771	500	23.99	503.59	27.58	22.88	0.87	J-1296	Angell St.
J-2542	500	24.07	503.95	28.02	23.77	26.29	J-2508	Post Rd.
J-290	500	25.08	503.59	28.67	21.34	0.87	J-1296	Gerald St.
J-835	500	25.92	503.59	29.51	22.99	0.87	J-1296	Dinsdale Ct.
J-2294	500	26.04	503.95	29.99	21.37	26.28	J-2508	Chevy Ct.
J-901	500	26.04	503.59	29.63	20.02	0.87	J-1296	Spring St.
J-7820	500	27.02	503.04	30.06	20	0.87	J-1296	Edward St.
J-5122	500	27.48	500	27.48	20.05	0.87	J-1296	Hope Rd. Booster PS
J-7821	500	27.55	503.04	30.59	20.01	0.87	J-1296	Macarthur Blvd.
J-7819	500	27.83	503.04	30.87	20.01	0.87	J-1296	Edward St.
J-7434	500	28.64	503.04	31.68	20.01	0.87	J-1296	Sunapee Ct.
J-467	500	29.36	503.59	32.95	21.08	0.87	J-1296	Leeder St.
J-902	500	30.35	503.59	33.94	20.01	0.87	J-1296	Spring St.
J-5116	500	30.82	503.31	34.13	20.08	0.87	J-1296	Hope Rd. Booster PS
J-2191	500	31.2	503.95	35.15	20	0.87	J-1296	Major Potter Rd.
J-7470	500	31.29	503.04	34.33	20.19	0.87	J-1296	Montana Ave.
J-1149	500	31.89	503.59	35.48	20.03	0.87	J-1296	Baker St.
J-2146	500	32.32	503.95	36.27	20	0.87	J-1296	Major Potter Rd.
J-2378	500	34.42	503.95	38.37	22.1	26.26	J-2508	Hebert St.
J-8080	500	35	503.04	38.04	20.29	0.87	J-1296	Hazel St.
J-338	500	35.64	503.59	39.23	20.01	0.87	J-1296	Davis St.
J-7847	500	35.98	503.04	39.02	20.29	0.87	J-1296	Ann Ct.
J-878	500	37.36	503.59	40.95	20	0.87	J-1296	Kenmore St.
J-1019	500	41.5	503.59	45.09	21.52	0.87	J-1296	Terrace Ave.
J-2450	500	45.62	503.95	49.57	21.42	26.22	J-2508	Thames Ave.
J-7711	500	50.31	503.04	53.35	21.15	7.32	J-8307	Meeting St.
J-7803	500	53.77	503.04	56.81	20.01	0.87	J-1296	Edward St.
J-261	500	54.34	503.59	57.93	20.01	0.87	J-1296	Tower Rd.
J-7802	500	56.27	503.04	59.31	20	0.87	J-1296	Edward St.
J-886	500	57.73	503.59	61.32	20.16	0.87	J-1296	Church St.
J-340	500	64.61	503.59	68.2	20.01	0.87	J-1296	Miami St.
J-907	500	65.38	503.59	68.97	20.1	0.87	J-1296	Orchard St.
J-906	500	65.59	503.59	69.18	20.1	0.87	J-1296	Orchard St.
J-905	500	65.91	503.59	69.5	20.1	0.87	J-1296	Orchard St.
J-904	500	66.29	503.59	69.88	20.1	0.87	J-1296	Fairmont St.
J-2328	500	66.52	503.95	70.47	20	0.87	J-1296	Martingale Dr.
J-960	500	68.05	503.59	71.64	20.37	0.87	J-1296	New London Tpk.
J-909	500	74.19	503.59	77.78	20.37	0.87	J-1296	Church St.
J-269	500	77.08	532.92	110	20	0.87	J-1296	Tanglewood Dr.
J-100	500	78.63	503.59	82.22	20.01	0.87	J-1296	Cowesett Rd.
J-792	500	80.6	503.59	84.19	20	0.87	J-1296	Phenix Ave.
J-1146	500	81.18	503.59	84.77	20.36	0.87	J-1296	Capron St.
J-893	500	82.93	503.59	86.52	20.21	0.87	J-1296	Nestor St.
J-585	500	84.17	503.59	87.76	20	0.87	J-1296	Plante St.
J-8142	500	85.88	537.45	123.33	20.02	0.87	J-1296	Maple Root Rd.
J-562	500	89.24	503.59	92.83	20.29	0.87	J-1296	Nolan St.
J-924	500	90.07	503.59	93.66	20.24	0.87	J-1296	Manchester St.
J-1148	500	97.58	503.59	101.17	20.14	0.87	J-1296	Baker St.
J-1084	500	98.93	503.59	102.52	20.35	0.87	J-1296	Capron St.
J-908	500	99.61	503.59	103.2	20.18	0.87	J-1296	Tilton St.
J-268	500	99.96	503.59	103.55	20	0.87	J-1296	Iron Dr.
J-4318	500	101.11	504.45	105.56	20.01	26.15	J-2508	Greenwich Blvd.
J-7041	500	102.3	503.04	105.34	20	0.87	J-1296	Nooseneck Hill Rd.
J-5024	500	102.37	503.31	105.68	20.05	17.66	J-5127	Allard St.

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J-923	500	102.78	503.59	106.37	20.28	0.87	J-1296	Manchester St.
J-925	500	112.09	503.59	115.68	20.23	0.87	J-1296	Hepburn St.
J-558	500	115.01	503.59	118.6	20.13	0.87	J-1296	Baker St.
J-4442	500	116.5	504.45	120.95	20	26.13	J-2508	Division St.
J-7839	500	119.18	503.04	122.22	20.01	0.87	J-1296	South St.
J-459	500	121.31	503.59	124.9	20.26	0.87	J-1296	Webster St.
J-263	500	122.86	503.59	126.45	20.01	0.87	J-1296	Tanglewood Dr.
J-266	500	122.89	503.59	126.48	20.01	0.87	J-1296	Iron Dr.
J-325	500	122.99	503.59	126.58	20.06	0.87	J-1296	Lenox Ave.
J-7858	500	123.69	503.04	126.73	20.06	0.87	J-1296	Bates Ave.
J-887	500	125.55	503.59	129.14	22.91	0.03	J-886	Cowesett Rd.
J-7526	500	128.71	503.04	131.75	20	0.87	J-1296	Johnson Blvd. PS Suction
J-4542	500	131.25	504.45	135.7	20.27	26.07	J-2508	Upland Ave.
J-790	500	131.91	503.59	135.5	20.03	0.87	J-1296	Melrose St.
J-337	500	132.96	503.59	136.55	20.07	0.87	J-1296	Davis St.
J-842	500	133.16	503.59	136.75	20	0.87	J-1296	Ellison St.
J-5129	500	133.67	503.31	136.98	20.07	0.87	J-1296	Hall Ave.
J-5115	500	134.44	503.31	137.75	20.07	0.87	J-1296	Hall Ave.
J-903	500	134.88	503.59	138.47	20.14	0.87	J-1296	Church St.
J-539	500	136.42	503.59	140.01	20.03	0.87	J-1296	Riverdale Ave.
J-431	500	136.64	503.59	140.23	20	0.87	J-1296	Cowesett Rd.
J-867	500	137.69	503.59	141.28	20.03	0.87	J-1296	McElroy St.
J-2123	500	140.28	503.95	144.23	20	0.87	J-1296	Red Chimney Dr.
J-7554	500	140.73	503.04	143.77	20	0.87	J-1296	Cove Rd.
J-1160	500	143.06	503.59	146.65	20.01	0.87	J-1296	Grant St.
J-7498	500	146.4	503.04	149.44	20.01	0.87	J-1296	Ada Ct.
J-922	500	147.91	503.59	151.5	20.23	0.87	J-1296	Hepburn St.
J-324	500	148.77	503.59	152.38	20.05	0.87	J-1296	Lenox Ave.
J-7941	500	148.98	503.04	152.02	20	0.87	J-1296	Pierce St.
J-7419	500	151.14	503.04	154.18	20.01	0.87	J-1296	Lowell St.
J-7341	500	152.38	503.04	155.42	20	0.87	J-1296	Linda Ct. (Private)
J-7553	500	153.19	503.04	156.23	20	0.87	J-1296	Cove Rd.
J-538	500	153.91	503.59	157.5	20.02	0.87	J-1296	Riverdale Ave.
J-7543	500	154.96	503.04	158	20	0.87	J-1296	Beach St.
J-1065	500	159.25	503.59	162.84	20	0.87	J-1296	New London Ave.
J-7697	500	159.37	503.04	162.41	20	0.87	J-1296	Mapledale St.
J-270	500	160.96	503.59	164.55	20	0.87	J-1296	New London Ave.
J-7616	500	161.32	503.04	164.36	20	0.87	J-1296	Tiogue Ave.
J-670	500	162.33	503.59	165.92	20.02	0.87	J-1296	Flynn Ter.
J-2358	500	162.36	503.95	166.31	20.01	0.87	J-1296	Country View Dr.
J-7822	500	162.88	503.04	165.92	20.01	0.87	J-1296	Raymond St.
J-7687	500	164.74	503.04	167.78	20	0.87	J-1296	Cote Ct.
J-437	500	165.45	503.59	169.04	20	0.87	J-1296	Cowesett Rd.
J-7688	500	167.07	503.04	170.11	20	0.87	J-1296	Laurel Ave.
J-1079	500	167.83	503.59	171.42	20	0.87	J-1296	Vine St.
J-669	500	170.85	503.59	174.44	20.02	0.87	J-1296	Flynn Ter.
J-654	500	171.67	503.59	175.26	20.01	0.87	J-1296	Greene St.
J-6070	500	171.94	502.76	174.7	20.01	0.87	J-1296	Goddard St.
J-2307	500	172.7	503.95	176.65	20.01	25.84	J-2508	North Marlborough St.
J-7585	500	173.08	503.04	176.12	20.01	0.87	J-1296	North Glen Dr.
J-8103	500	173.74	503.04	176.78	20	0.87	J-1296	Stone St.
J-2201	500	175.21	503.95	179.16	20	0.87	J-1296	Hedgerow Dr.
J-7344	500	179.4	503.04	182.44	20.01	0.87	J-1296	Steere Ln.
J-7337	500	182.05	500	182.05	20	0.87	J-1296	Mishnock WTP PS
J-4317	500	182.85	504.45	187.3	20.02	21.62	J-4318	Greenwich Blvd.
J-8065	500	185.1	503.04	188.14	20.03	0.87	J-1296	Bates Ave.
J-8052	500	186.5	500	186.5	20	0.87	J-1296	Mishnock WTP PS
J-8053	500	186.54	500	186.54	20	0.87	J-1296	Mishnock WTP PS
J-7334	500	186.8	500	186.8	20	0.87	J-1296	Mishnock WTP PS
J-7336	500	187	500	187	20	0.87	J-1296	Mishnock WTP PS
J-7335	500	187.42	500	187.42	20	0.87	J-1296	Mishnock WTP PS
J-7338	500	188.93	503.04	191.97	20	0.87	J-1296	Mishnock WTP PS
J-7347	500	189.87	503.04	192.91	20	0.87	J-1296	Comfort Way (Private)
J-7339	500	189.91	503.04	192.95	20	0.87	J-1296	Nooseneck Hill Rd.
J-541	500	190.33	503.59	193.92	20.05	0.87	J-1296	Eddy St.
J-7340	500	193.21	503.04	196.25	20	0.87	J-1296	Nooseneck Hill Rd.
J-7667	500	201.01	503.04	204.05	20.01	0.87	J-1296	Dexter St.
J-438	500	201.58	503.59	205.17	20.01	0.87	J-1296	Albion St.
J-872	500	202.24	503.59	205.83	20.02	0.87	J-1296	Coutu Ct.
J-5114	500	202.97	503.31	206.28	22.29	0	J-5122	Hope Rd.

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J-7509	500	204.23	503.04	207.27	20	0.87	J-1296	Coventry Dr.
J-791	500	205.91	503.59	209.5	20.01	0.87	J-1296	Phenix Ave.
J-2511	500	206.31	503.95	210.26	20	0.87	J-1296	Meadow St.
J-7506	500	206.41	503.04	209.45	20	0.87	J-1296	Coventry Dr.
J-442	500	207.13	503.59	210.72	20.01	0.87	J-1296	Ashton St.
J-7942	500	209.11	503.04	212.15	20	0.87	J-1296	Hill St.
J-7686	500	210.78	503.04	213.82	20.01	0.87	J-1296	Cote Ct.
J-851	500	210.83	503.59	214.42	20	0.87	J-1296	Greene St.
J-7903	500	211.59	503.04	214.63	20.02	0.87	J-1296	Card St.
J-7685	500	212.52	503.04	215.56	20.01	0.87	J-1296	Turcotte St.
J-7798	500	214.01	503.04	217.05	20.02	0.87	J-1296	Edward St.
J-7902	500	214.93	503.04	217.97	20.02	0.87	J-1296	Card St.
J-7799	500	215.17	503.04	218.21	20.02	0.87	J-1296	Edward St.
J-7901	500	215.26	503.04	218.3	20.02	0.87	J-1296	Spencer St.
J-866	500	215.5	503.59	219.09	20.03	0.87	J-1296	McElroy St.
J-2306	500	217.73	503.95	221.68	20.01	22.58	J-2307	Ladd St.
J-7346	500	217.93	503.04	220.97	20	0.87	J-1296	Nooseneck Hill Rd.
J-640	500	218.84	503.59	222.43	20	0.87	J-1296	Tobin St.
J-889	500	220.09	503.59	223.68	20.1	0.87	J-1296	Church St.
J-213	500	220.1	503.59	223.69	20.15	0.87	J-1296	Wilson St.
J-2141	500	222.49	503.95	226.44	20	0.87	J-1296	Red Chimney Dr.
J-7886	500	223.26	503.04	226.3	20	0.87	J-1296	Marshall Cir.
J-2162	500	223.56	503.95	227.51	20	0.87	J-1296	Hedgerow Dr.
J-7568	500	224.43	503.04	227.47	20	0.87	J-1296	Arnold Rd.
J-6004	500	225.07	502.76	227.83	20	0.87	J-1296	North Rd.
J-900	500	225.31	503.59	228.9	20.17	0.87	J-1296	Spring St.
J-7430	500	225.47	503.04	228.51	20	0.87	J-1296	Stone St.
J-7570	500	225.48	503.04	228.52	20	0.87	J-1296	Arnold Rd.
J-7571	500	225.48	503.04	228.52	20	0.87	J-1296	Arnold Rd.
J-4634	500	225.54	500	225.54	22.07	0	J-4641	EG Medical Center Domestic Line
J-8143	500	225.56	535.17	260.73	20.01	0.87	J-1296	Nooseneck Hill Rd.
J-985	500	225.71	503.59	229.3	20	0.87	J-1296	Colvin St.
J-6003	500	226.35	502.76	229.11	20	0.87	J-1296	North Rd.
J-7552	500	230.81	503.04	233.85	20	0.87	J-1296	Lydia Rd.
J-2332	500	231.39	503.95	235.34	20	0.87	J-1296	Cowesett Rd.
J-6001	500	231.88	502.76	234.64	20	0.87	J-1296	Blossom Ln.
J-282	500	232.06	503.59	235.65	20.06	0.87	J-1296	First St.
J-2331	500	232.94	503.95	236.89	20	0.87	J-1296	Cowesett Rd.
J-7587	500	234.2	503.04	237.24	20	0.87	J-1296	South Glen Dr.
J-7529	500	237.93	503.04	240.97	20	0.87	J-1296	Johnson Blvd.
J-6069	500	238.07	502.76	240.83	20	0.87	J-1296	Brown St.
J-540	500	238.82	503.59	242.41	20.05	0.87	J-1296	Eddy St.
J-2327	500	239.35	503.95	243.3	20	0.87	J-1296	Martingale Dr.
J-1140	500	239.78	503.59	243.37	20.08	0.87	J-1296	Pennsylvania Ave.
J-898	500	241.26	503.59	244.85	20.08	0.87	J-1296	Pennsylvania Ave.
J-888	500	244.8	503.59	248.39	20.09	0.87	J-1296	Church St.
J-7790	500	245.41	503.04	248.45	20.02	0.87	J-1296	Fairview Ave.
J-7899	500	246.17	503.04	249.21	20.03	0.87	J-1296	Fairview Ave.
J-7789	500	246.91	503.04	249.95	20.02	0.87	J-1296	Fairview Ave.
J-7343	500	248.62	503.04	251.66	20.01	0.87	J-1296	Steere Ln.
J-796	500	248.99	503.59	252.58	20.01	0.87	J-1296	Garnet St.
J-868	500	249.38	503.59	252.97	20.03	0.87	J-1296	Bank St.
J-614	500	249.73	503.59	253.32	20.01	0.87	J-1296	Hillcrest Dr.
J-7448	500	253.01	503.04	256.05	20.02	0.87	J-1296	Wildwood St.
J-632	500	254.68	503.59	258.27	20.01	0.87	J-1296	Regnaiere Ct.
J-554	500	255.8	503.59	259.39	20.01	0.87	J-1296	Mill St.
J-6009	500	256.2	502.76	258.96	20	0.87	J-1296	Harrington Ave.
J-339	500	256.89	503.59	260.48	20.02	0.87	J-1296	Tampa St.
J-7838	500	257.26	503.04	260.3	20.01	0.87	J-1296	South St.
J-433	500	260.95	503.59	264.54	20.01	0.87	J-1296	Hollow Cir.
J-7812	500	263.16	503.04	266.2	20.01	0.87	J-1296	Yates Ave.
J-553	500	263.29	503.59	266.88	20.01	0.87	J-1296	Mill St.
J-429	500	264.24	503.59	267.83	20	0.87	J-1296	Dounetos St.
J-419	500	264.31	503.59	267.9	20.01	0.87	J-1296	Lee St.
J-299	500	265.39	503.59	268.98	20.05	0.87	J-1296	Ledgemont Ct.
J-7446	500	267.74	503.04	270.78	20	0.87	J-1296	Woodland Ave.
J-8099	500	269.32	503.04	272.36	20.01	0.87	J-1296	Prospect Ave.
J-7857	500	270.5	503.04	273.54	20.01	0.87	J-1296	Bates Ave.
J-7900	500	270.6	503.04	273.64	20.02	0.87	J-1296	Card St.
J-7342	500	271.11	503.04	274.15	20.01	0.87	J-1296	Steere Ln.

Kent County Water Authority  
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J-918	500	271.4	503.59	274.99	20.03	0.87	J-1296	Hepburn St.
J-283	500	272.08	503.59	275.67	20.03	0.87	J-1296	First St.
J-575	500	272.63	503.59	276.22	20.01	0.87	J-1296	Lemoine Ct.
J-7447	500	273.23	503.04	276.27	20.02	0.87	J-1296	Woodland Ave.
J-7805	500	274.1	503.04	277.14	20.02	0.87	J-1296	Hazard St.
J-417	500	274.19	503.59	277.78	20.01	0.87	J-1296	Lee St.
J-639	500	274.36	503.59	277.95	20	0.87	J-1296	Tobin St.
J-4625	500	274.61	500	274.61	20	0.87	J-1296	Brooks Pharmacy Domestic Line
J-7878	500	275.14	503.04	278.18	20	0.87	J-1296	Ray St.
J-801	500	275.88	503.59	279.47	20	0.87	J-1296	Aberdeen St.
J-260	500	276.3	503.59	279.89	20.01	0.87	J-1296	Tower Rd.
J-8050	500	277.14	503.04	280.18	20	0.87	J-1296	Knotty Oak Rd.
J-298	500	278.65	503.59	282.24	20.05	0.87	J-1296	Ledgemont Ct.
J-877	500	278.79	503.59	282.38	20.03	0.87	J-1296	John St.
J-7804	500	282.59	503.04	285.63	20.01	0.87	J-1296	Hazard St.
J-430	500	283.36	503.59	286.95	20.01	0.87	J-1296	Dounetos St.
J-2142	500	283.46	503.95	287.41	20	0.87	J-1296	Red Chimney Dr.
J-2145	500	284.78	503.95	288.73	20	0.87	J-1296	Hedgerow Dr.
J-2302	500	285.85	503.95	289.8	20	25.53	J-2508	Williams St.
J-2359	500	286.06	503.95	290.01	20.03	0.87	J-1296	Beacon Hill Dr.
J-2153	500	286.45	503.95	290.4	20	0.87	J-1296	Hedgerow Dr.
J-7521	500	287.02	503.04	290.06	20	0.87	J-1296	Carolyn St.
J-7865	500	288.1	503.04	291.14	20	0.87	J-1296	Fairview Ave.
J-7416	500	288.94	503.04	291.98	20	0.87	J-1296	Lowell St.
J-7682	500	290.14	503.04	293.18	20.03	0.87	J-1296	Taft St.
J-441	500	298.21	503.59	301.8	20.01	0.87	J-1296	Cowesett Rd.
J-2357	500	298.27	503.95	302.22	20.03	0.87	J-1296	Downing Ln.
J-7881	500	299.56	503.04	302.6	20	0.87	J-1296	Marshall Cir.
J-1145	500	300.09	503.59	303.68	20.01	0.87	J-1296	Wyman St.
J-795	500	301.9	503.59	305.49	20.01	0.87	J-1296	Schofield St.
J-4633	500	305.33	500	305.33	20	0.53	J-4641	EG Medical Center Domestic Line
J-2552	500	306.74	503.95	310.69	20.03	0.87	J-1296	Panto Rd.
J-436	500	308.03	503.59	311.62	20	0.87	J-1296	High View Dr.
J-7792	500	308.8	503.04	311.84	20.01	0.87	J-1296	Fairview Ave.
J-874	500	309.19	503.59	312.78	20	0.87	J-1296	Weaver St.
J-7895	500	313.51	503.04	316.55	20	0.87	J-1296	Fairview Ave.
J-7520	500	314.35	503.04	317.39	20	0.87	J-1296	Majorie St.
J-2356	500	314.67	503.95	318.62	20.03	0.87	J-1296	Country View Dr.
J-896	500	315.64	503.59	319.23	20	0.87	J-1296	School St.
J-435	500	319.42	503.59	323.01	20	0.87	J-1296	High View Dr.
J-895	500	319.5	503.59	323.09	20.05	0.87	J-1296	School St.
J-897	500	320.65	503.59	324.24	20.05	0.87	J-1296	School St.
J-220	500	321.52	503.59	325.11	20.08	0.87	J-1296	Lancellotta St.
J-2192	500	325.91	503.95	329.86	20	0.87	J-1296	Indian Hill Rd.
J-7896	500	326.51	503.04	329.55	20	0.87	J-1296	Fairview Ave.
J-7898	500	326.62	503.04	329.66	20.02	0.87	J-1296	Woodside Ave.
J-7793	500	326.64	503.04	329.68	20	0.87	J-1296	Fairview Ave.
J-794	500	326.68	503.59	330.27	20	0.87	J-1296	Gamet St.
J-294	500	327.5	503.59	331.09	20.05	0.87	J-1296	Earl St.
J-7515	500	327.55	503.04	330.59	20	0.87	J-1296	West Lake Dr.
J-307	500	329.62	503.59	333.21	20.01	0.87	J-1296	Leaf St.
J-542	500	329.83	503.59	333.42	20.03	0.87	J-1296	Main St.
J-388	500	330.03	503.59	333.62	20.01	0.87	J-1296	Cochran St.
J-876	500	330.41	503.59	334	20.02	0.87	J-1296	John St.
J-2375	500	331.67	503.95	335.62	20	25.22	J-2508	Elisha St.
J-532	500	332.16	503.59	335.75	20.02	0.87	J-1296	Epworth Ave.
J-7513	500	334.64	503.04	337.68	20	0.87	J-1296	Johnson Blvd.
J-2308	500	334.82	503.95	338.77	20	25.26	J-2508	Hall St.
J-432	500	335.95	503.59	339.54	20	0.87	J-1296	Cowesett Rd.
J-216	500	336.9	503.59	340.49	20.07	0.87	J-1296	Tripoli St.
J-1152	500	337.91	503.59	341.5	20.04	0.87	J-1296	Gerald St.
J-1050	500	338.91	503.59	342.5	20.03	0.87	J-1296	New London Ave.
J-1239	500	339.03	500	339.03	20.04	0.87	J-1296	Creamer Ave.
J-1053	500	339.3	503.59	342.89	20.04	0.87	J-1296	Gerald St.
J-1051	500	340.4	503.59	343.99	20.03	0.87	J-1296	Creamer Ave.
J-297	500	340.44	503.59	344.03	20.04	0.87	J-1296	Shane Dr.
J-1052	500	340.81	503.59	344.4	20.03	0.87	J-1296	Creamer Ave.
J-649	500	341.25	503.59	344.84	20	0.87	J-1296	Greene St.
J-8101	500	342.62	503.04	345.66	20	0.87	J-1296	Homestead Dr.
J-1143	500	345.14	503.59	348.73	20	0.87	J-1296	Wyman St.

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J-7830	500	345.59	503.04	348.63	20	0.87	J-1296	Gerald Ave.
J-1054	500	346.73	503.59	350.32	20.03	0.87	J-1296	New London Ave.
J-871	500	347.65	503.59	351.24	20.01	0.87	J-1296	Payan St.
J-7566	500	348.13	503.04	351.17	20	0.87	J-1296	Reno Ct.
J-8140	500	348.89	866.73	715.62	20	0.87	J-1296	North St.
J-434	500	349.23	503.59	352.82	20	0.87	J-1296	Cowesett Rd.
J-6000	500	351.36	502.76	354.12	20.01	0.87	J-1296	Orchard Dr.
J-7970	500	352.13	503.04	355.17	20	0.87	J-1296	Terrace Ave.
J-7681	500	352.2	503.04	355.24	20.02	0.87	J-1296	Laurel Ave.
J-833	500	354.02	503.59	357.61	20	0.87	J-1296	Brayton St.
J-7828	500	354.98	503.04	358.02	20	0.87	J-1296	Raymond St.
J-797	500	355.22	503.59	358.81	20	0.87	J-1296	Lowell St.
J-7586	500	355.52	503.04	358.56	20.01	0.87	J-1296	North Glen Dr.
J-7875	500	357.43	503.04	360.47	20.01	0.87	J-1296	Doris St.
J-891	500	357.58	503.59	361.17	22.6	0	J-886	Nestor St.
J-2303	500	357.73	503.95	361.68	20	25.33	J-2508	Ladd St.
J-633	500	359	503.59	362.59	20	0.87	J-1296	Kinne St.
J-892	500	359.23	503.59	362.82	22.34	0	J-886	Nestor St.
J-582	500	361.35	503.59	364.94	20.01	0.87	J-1296	Agnes St.
J-8085	500	362.13	503.04	365.17	20	0.87	J-1296	Arnold Rd.
J-7696	500	363.25	503.04	366.29	20	0.87	J-1296	Mapledale St.
J-7546	500	364.01	503.04	367.05	20	0.87	J-1296	Arnold Rd.
J-7939	500	365.74	503.04	368.78	20	0.87	J-1296	Hill St.
J-7897	500	368.49	503.04	371.53	20	0.87	J-1296	Fairview Ave.
J-296	500	368.51	503.59	372.1	20.02	0.87	J-1296	Seth Dr.
J-166	500	369.8	503.59	373.39	20.02	42.92	J-165	Steven Dr.
J-851	500	370.1	503.59	373.69	20	0.87	J-1296	St. Mary St.
J-311	500	370.28	503.59	373.87	20.01	0.87	J-1296	Lexington Ave.
J-7906	500	370.69	503.04	373.73	20	0.87	J-1296	Fairview Ave.
J-217	500	371.37	503.59	374.96	20.05	0.87	J-1296	Prospect Hill Ave.
J-295	500	372.03	503.59	375.62	20.02	0.87	J-1296	Seth Dr.
J-7876	500	374.33	503.04	377.37	20.01	0.87	J-1296	Park Ave.
J-7877	500	374.5	503.04	377.54	20	0.87	J-1296	Park Ave.
J-4142	500	374.99	504.45	379.44	20	0.87	J-1296	Fox Run
J-2137	500	380.2	503.95	384.15	20.01	0.87	J-1296	Red Chimney Dr.
J-870	500	380.72	503.59	384.31	20.01	0.87	J-1296	Coutu Ct.
J-215	500	381.18	503.59	384.77	20.05	0.87	J-1296	Prospect Hill Ave.
J-8126	500	382.74	503.04	385.78	20	0.87	J-1296	Nooseneck Hill Rd.
J-5119	500	384.77	503.31	388.08	20	0.87	J-1296	Lipplitt Ave.
J-7348	500	386.22	503.04	389.26	20	0.87	J-1296	Nooseneck Hill Rd.
J-7578	500	386.22	503.04	389.26	20	0.87	J-1296	Balsam Dr.
J-636	500	386.81	503.59	390.4	20.01	0.87	J-1296	Kinne St.
J-7579	500	387.63	503.04	390.67	20.01	0.87	J-1296	Harrington Ave.
J-657	500	389.04	503.59	392.63	20.01	0.87	J-1296	Woodside Ave.
J-999	500	391.03	503.59	394.62	41.4	0	J-1000	Douglas St.
J-2147	500	391.39	503.95	395.34	20	0.87	J-1296	South Cobblehill Rd.
J-4504	500	391.94	504.45	396.39	20	25.29	J-2508	Wine St.
J-2139	500	396.2	503.95	400.15	20	0.87	J-1296	Red Chimney Dr.
J-8096	500	397.37	503.04	400.41	20.01	0.87	J-1296	Haywood Dr.
J-647	500	399.77	503.59	403.36	20	0.87	J-1296	South St.
J-4503	500	402.99	504.45	407.44	20	25.25	J-2508	Wine St.
J-7885	500	406.15	503.04	409.19	20	0.87	J-1296	Rosella St.
J-6002	500	406.21	502.76	408.97	20	0.87	J-1296	Blossom Ln.
J-673	500	407.27	503.59	410.86	20	0.87	J-1296	Sunset Ave.
J-7429	500	407.49	503.04	410.53	20	0.87	J-1296	Homestead Dr.
J-932	500	407.49	503.59	411.08	20.01	0.87	J-1296	Manchester St.
J-937	500	407.98	503.59	411.57	20	0.87	J-1296	East Greenwich Ave.
J-214	500	408.08	503.59	411.87	20.06	0.87	J-1296	Tripoli St.
J-4671	500	410.13	500	410.13	20.03	0.87	J-1296	Rocky Hill Fairgrounds Domestic Line
J-931	500	411.28	503.59	414.87	20.01	0.87	J-1296	Remington St.
J-612	500	412	503.59	415.59	20	0.87	J-1296	Hillcrest Dr.
J-7774	500	412.31	503.04	415.35	20	0.87	J-1296	Hickory Rd.
J-917	500	413.27	503.59	416.86	20	0.87	J-1296	Manchester St.
J-7576	500	414.57	503.04	417.61	20	0.87	J-1296	Larch Dr.
J-7689	500	420.55	503.04	423.59	20	0.87	J-1296	Cote Ct.
J-2301	500	420.86	503.95	424.81	20	25.03	J-2508	Williams St.
J-7577	500	421.85	503.04	424.89	20.01	0.87	J-1296	Balsam Dr.
J-444	500	423.26	503.59	426.85	20	0.87	J-1296	Winthrop Ave.
J-658	500	423.46	503.59	427.05	20	0.87	J-1296	Downing Dr.
J-7573	500	423.72	503.04	426.76	20	0.87	J-1296	Arnold Rd.

Kent County Water Authority  
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J-8100	500	425.24	503.04	428.28	20	0.87	J-1296	Prospect Ave.
J-933	500	428.02	503.59	431.61	20	0.87	J-1296	Manchester St.
J-7874	500	430.59	503.04	433.63	20	0.87	J-1296	Park Ave.
J-6068	500	431.78	502.76	434.54	20	0.87	J-1296	Main St.
J-7581	500	432.13	503.04	435.17	20	0.87	J-1296	View Rd.
J-259	500	432.79	503.59	436.38	20.02	0.87	J-1296	Musket Rd.
J-8071	500	436.29	503.04	439.33	20	0.87	J-1296	Sheltra Ave.
J-7940	500	436.49	503.04	439.53	20	0.87	J-1296	Hill St.
J-4670	500	436.9	500	436.9	20.02	0.87	J-1296	Rocky Hill Fairgrounds Domestic Line
J-678	500	440.76	503.59	444.35	20	0.87	J-1296	Pine St.
J-7569	500	441.39	503.04	444.43	20	0.87	J-1296	West Shore Dr.
J-271	500	442.37	503.59	445.96	20	0.87	J-1296	Hilltop Ave.
J-546	500	443.13	503.59	446.72	20	0.87	J-1296	Robert St.
J-7823	500	443.21	503.04	446.25	20	0.87	J-1296	Anderson Ave.
J-7500	500	443.48	503.04	446.52	20	0.87	J-1296	Audrey Ct.
J-4443	500	443.89	504.45	448.34	20	22.1	J-4442	Division St.
J-8070	500	444.14	503.04	447.18	20	0.87	J-1296	Sharp St.
J-7683	500	445.75	503.04	448.79	20.02	0.87	J-1296	Greene St.
J-7773	500	446.16	503.04	449.2	20	0.87	J-1296	Sandalwood Ct.
J-7574	500	446.31	503.04	449.35	20	0.87	J-1296	Briar Point Ave.
J-447	500	446.39	503.59	449.98	20	0.87	J-1296	Standard Ave.
J-646	500	447.12	503.59	450.71	20	0.87	J-1296	Harris Ave.
J-2537	500	447.78	503.95	451.73	20	24.64	J-2508	Pleasant St.
J-1175	500	447.83	500	447.83	20.02	0.87	J-1296	Prospect Hill Ave.
J-634	500	448.09	503.59	451.68	20	0.87	J-1296	Kinne St.
J-1001	500	448.38	503.59	451.97	20	0.87	J-1296	Le Valley St.
J-677	500	449.54	503.59	453.13	20	0.87	J-1296	Sunrise Ave.
J-543	500	451.55	503.59	455.14	20	0.87	J-1296	Hare St.
J-1176	500	451.72	515.3	467.02	20.01	0.87	J-1296	Silvercup Cir.
J-788	500	452.14	503.59	455.73	20	0.87	J-1296	Phenix Ave.
J-237	500	453.62	503.59	457.21	20	0.87	J-1296	Circle Dr.
J-7811	500	453.94	503.04	456.98	20	0.87	J-1296	Yates Ave.
J-8069	500	457.16	503.04	460.2	20	0.87	J-1296	Hazard St.
J-1020	500	459.66	503.59	463.25	20	0.87	J-1296	North Pleasant St.
J-7572	500	461.88	503.04	464.92	20	0.87	J-1296	Florida Ave.
J-7542	500	462.1	503.04	465.14	20	0.87	J-1296	Dixie Rd.
J-318	500	462.79	503.59	466.38	20	0.87	J-1296	Lenox Ave.
J-236	500	464.12	503.59	467.71	20	0.87	J-1296	Circle Dr.
J-2264	500	465.69	503.95	469.64	20	0.45	J-2266	Stiness Dr.
J-7772	500	466	503.04	469.04	20	0.87	J-1296	Sandalwood Ct.
J-2265	500	468.3	503.95	472.25	33.22	0	J-2266	Valentine Cir.
J-309	500	469.14	503.59	472.73	20	0.87	J-1296	Perkins St.
J-235	500	472.18	503.59	475.77	20	0.87	J-1296	Auburn St.
J-7701	500	473.09	503.04	476.13	20	0.87	J-1296	Contentment Dr.
J-1177	500	473.59	515.3	488.89	20	0.87	J-1296	Silvercup Cir.
J-7565	500	476.42	503.04	479.46	20	0.87	J-1296	Holmes Rd.
J-531	500	476.48	503.59	480.07	20	0.87	J-1296	Epworth Ave.
J-308	500	479.23	503.59	482.82	20	0.87	J-1296	Perkins St.
J-7444	500	482.19	503.04	485.23	20	0.87	J-1296	Prospect Ave.
J-7829	500	483.07	503.04	486.11	20	0.87	J-1296	Gerald Ave.
J-759	500	485.28	503.59	488.87	20.08	0.87	J-1296	Harmony St.
J-1070	500	485.62	503.59	489.21	20	0.87	J-1296	Weaver St.
J-7514	500	485.86	503.04	488.9	20	0.87	J-1296	Johnson Blvd.
J-210	500	487.42	503.59	491.01	20	0.87	J-1296	Fiume St.
J-8088	500	489.41	503.04	492.45	20	0.87	J-1296	Arnold Rd.
J-7547	500	489.94	503.04	492.98	20	0.87	J-1296	Arnold Rd.
J-234	500	491.54	503.59	495.13	20	0.87	J-1296	Blossom St.
J-861	500	495.61	503.59	499.2	20.06	0.87	J-1296	Gardner Ave.
J-320	500	496.09	503.59	499.68	20	0.87	J-1296	Revere Ave.
J-869	500	496.64	503.59	500.23	20.04	0.87	J-1296	Curson St.
J-7969	500	496.82	503.04	499.86	20.11	0.87	J-1296	Terrace Ave.
J-1003	500	497.53	503.59	501.12	20.11	0.87	J-1296	Le Valley St.
J-7530	500	498.49	503.04	501.53	20	0.87	J-1296	Johnson Blvd.
J-314	500	498.9	503.59	502.49	20.04	0.87	J-1296	Edge St.
J-1042	500	499.51	503.59	503.1	20.09	0.87	J-1296	Bradley Ct.
J-605	500	499.51	503.59	503.1	20.05	0.87	J-1296	McNiff St.
J-1138	500	500	503.59	503.59	20	0.87	J-1296	Cowesett Rd.
J-7817	500	500	503.04	503.04	20	0.87	J-1296	Patton St.
J-2502	500	505.64	503.95	509.59	20	24.5	J-2508	Love Ln.
J-7495	500	509.5	503.04	512.54	20	0.87	J-1296	Haywood Dr.



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J-424	500	510.35	503.59	513.94	20	0.87	J-1296	Boucher St.
J-6065	500	512.35	502.76	515.11	20	0.44	J-6004	White Ln.
J-7770	500	514.22	503.04	517.26	20	0.87	J-1296	Sandalwood Ct.
J-7397	500	514.89	503.04	517.93	20	0.87	J-1296	Rosemary St.
J-475	500	515.66	503.59	519.25	20	0.87	J-1296	Arthur St.
J-7580	500	516.7	503.04	519.74	20	0.87	J-1296	Larch Dr.
J-6064	500	517.2	502.76	519.96	26.4	0	J-6004	North Rd.
J-899	500	518.47	503.59	522.06	31.37	0.02	J-886	School St.
J-7797	500	518.5	503.04	521.54	20	0.87	J-1296	Hazard St.
J-920	500	518.56	503.59	522.15	29.25	0.01	J-886	Main St.
J-7680	500	520.93	503.04	523.97	20.02	0.87	J-1296	Laurel Ave.
J-8138	500	524.58	503.04	527.62	20	0.87	J-1296	Sandalwood Ct.
J-919	500	528.31	503.59	531.9	27.18	0.01	J-886	Main St.
J-875	500	530.61	503.59	534.2	28.38	0	J-880	Payan St.
J-165	500	532.09	503.59	535.68	21.63	0	J-166	Steven Dr.
J-2475	500	533.86	503.95	537.81	20	0.87	J-1296	Pontiac St.
J-987	500	537.14	503.59	540.73	20	0.87	J-1296	Colvin St.
J-164	500	537.31	503.59	540.9	30.29	0	J-166	Brookdale Dr.
J-6006	500	537.4	502.76	540.16	20	0.87	J-1296	Reservation Dr.
J-274	500	538.05	503.59	541.64	20.01	0.87	J-1296	Queen Ave.
J-860	500	538.11	503.59	541.7	20	0.87	J-1296	Gough Ave.
J-2155	500	540.66	503.95	544.61	20	0.87	J-1296	Hedgerow Dr.
J-579	500	540.96	503.59	544.55	20	0.87	J-1296	Wood St.
J-386	500	541.23	503.59	544.82	20	0.87	J-1296	Judy Ter.
J-7465	500	542.22	503.04	545.26	20	0.87	J-1296	Forestdale St.
J-2506	500	542.9	503.95	546.85	20	23.8	J-2502	Berkeley Rd.
J-2143	500	543.13	503.95	547.08	20	0.87	J-1296	South Cobblehill Rd.
J-8245	500	544.6	500	544.6	20	0.87	J-1296	Tlogue Ave.
J-427	500	545.61	503.59	549.2	20	0.87	J-1296	Tiffany Ave.
J-7496	500	547.92	503.04	550.96	20	0.87	J-1296	Coventry Dr.
J-865	500	547.93	503.59	551.52	20	0.87	J-1296	Curson St.
J-205	500	549.42	503.59	553.01	20.01	0.87	J-1296	McTeers Ct.
J-313	500	549.84	503.59	553.43	20	0.87	J-1296	Wells St.
J-2144	500	550.65	503.95	554.6	20	0.87	J-1296	Red Chimney Dr.
J-7527	500	551.11	503.04	554.15	20	0.87	J-1296	Johnson Blvd.
J-890	500	552.94	503.59	556.53	24.82	0	J-886	Nestor St.
J-2551	500	554.68	503.95	558.63	20.01	0.87	J-1296	Panto Rd.
J-310	500	554.8	503.59	558.39	20	0.87	J-1296	Lexington Ave.
J-315	500	556.26	503.59	559.85	20	0.87	J-1296	Edge St.
J-6005	500	557.9	502.76	560.66	26.4	0	J-6004	North Rd.
J-8137	500	558.37	503.04	561.41	20	0.87	J-1296	Sandalwood Ct.
J-7540	500	558.73	503.04	561.77	20	0.87	J-1296	Twin Lakes Ave.
J-7694	500	560.37	503.04	563.41	20	0.87	J-1296	Knotty Oak Rd.
J-293	500	561.2	503.59	564.79	20.01	0.87	J-1296	St. George St.
J-428	500	561.48	503.59	565.07	20	0.87	J-1296	Revere Ave.
J-422	500	566.1	503.59	569.69	20	0.87	J-1296	Buckley Ave.
J-2312	500	567.02	503.95	570.97	20	24.11	J-2508	Goodwin St.
J-248	500	567.1	503.59	570.69	20	0.87	J-1296	Cantara St.
J-7466	500	568	503.04	571.04	20	0.87	J-1296	Pinehurst St.
J-608	500	568.18	503.59	571.77	20	0.87	J-1296	Jodoin St.
J-7813	500	568.94	503.04	571.98	20	0.87	J-1296	Eisenhower St.
J-7918	500	571.24	503.04	574.28	20	0.87	J-1296	Fones St.
J-172	500	571.34	503.59	574.93	20	24.75	J-171	Oakland Dr.
J-5082	500	573.94	503.31	577.25	20.01	24.08	J-5085	Burdick Dr.
J-4141	500	574.8	504.45	579.25	20	0.87	J-1296	Fox Run
J-7678	500	576.28	503.04	579.32	20	0.87	J-1296	Laurel Ave.
J-1067	500	576.69	503.59	580.28	20.02	0.87	J-1296	Hilltop Ave.
J-265	500	577.15	503.59	580.74	20	0.87	J-1296	Greenbrier Rd.
J-7706	500	578.02	503.04	581.06	20.01	7.29	J-8307	Meeting St.
J-173	500	578.65	503.59	582.24	20	23.82	J-171	Oakland Dr.
J-212	500	580.23	503.59	583.82	20	0.87	J-1296	Prospect Hill Ave.
J-3020	500	581.62	503.71	585.33	20	33.2	J-3038	Clubhouse Rd.
J-425	500	581.83	503.59	585.42	20	0.87	J-1296	Tiffany Ave.
J-4538	500	581.92	504.45	586.38	20	24.96	J-2508	Sixth Ave.
J-7665	500	582.64	503.04	585.68	20.01	0.87	J-1296	Donovan St. (Private)
J-2132	500	584.46	503.95	588.41	20.01	0.87	J-1296	Cobble Hill Rd.
J-2483	500	584.8	503.95	588.75	20.01	0.87	J-1296	Adelaide Ave.
J-6007	500	585.21	502.76	587.97	20	0.87	J-1296	North Rd.
J-885	500	585.31	503.59	588.9	20	0.87	J-1296	Gough Ave.
J-578	500	585.73	503.59	589.32	20	0.87	J-1296	West St.

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J-7707	500	585.92	503.04	588.96	20.01	7.29	J-8307	Boston St.
J-7710	500	586.21	503.04	589.25	20.01	7.29	J-8307	Boston St.
J-7443	500	586.31	503.04	589.35	20	0.87	J-1296	Woodland Ave.
J-672	500	586.57	503.59	590.16	20	0.87	J-1296	Fruit St.
J-203	500	586.83	503.59	590.42	20.02	0.87	J-1296	Prospect St.
J-7856	500	587.36	503.04	590.4	20	0.87	J-1296	Willow St.
J-793	500	587.7	503.59	591.29	20	0.87	J-1296	Linwood St.
J-5085	500	591	503.31	594.31	20.01	17.94	J-5082	Redfern Dr.
J-7850	500	591.35	503.04	594.39	20	0.87	J-1296	Read Ave.
J-7332	500	592.11	503.04	595.15	20.01	7.29	J-8307	Boston St.
J-1045	500	593.19	503.59	596.78	20	0.87	J-1296	Hoover St.
J-3038	500	595.64	503.71	599.35	20	34.05	J-3036	Brant Tr. (Private)
J-7406	500	597.94	500	597.94	20	0.87	J-1296	Coventry/Spring Lake Well Field
J-7668	500	599.86	503.04	602.9	20.03	0.87	J-1296	Dexter St.
J-2157	500	600.57	503.95	604.52	20	0.87	J-1296	South Cobblehill Rd.
J-211	500	600.8	503.59	604.39	20	0.87	J-1296	Fiume St.
J-5084	500	601.83	503.31	605.14	20.01	16.47	J-5082	Redfern Dr.
J-4111	500	602.89	504.45	607.34	20	0.87	J-1296	Lynn Cir.
J-862	500	604.32	503.59	607.91	23.24	0	J-880	Gardner Ave.
J-368	500	607.02	503.59	610.61	20.01	0.87	J-1296	Audrey Dr.
J-171	500	607.87	503.59	611.46	20.01	20.44	J-173	Oakland Dr.
J-267	500	609.09	503.59	612.68	20	0.87	J-1296	New London Ave.
J-5064	500	609.42	503.31	612.73	20.01	19.61	J-5082	Versailles St.
J-7854	500	610.43	503.04	613.47	20	0.87	J-1296	Read Ave.
J-5077	500	612.85	503.31	616.16	20.02	16.98	J-5082	Rainbow Rd.
J-8086	500	613.8	503.04	616.84	20	0.87	J-1296	Forest St.
J-635	500	614.32	503.59	617.91	20	0.87	J-1296	Kinne St.
J-545	500	615.04	503.59	618.63	20.01	0.87	J-1296	Robert St.
J-418	500	615.41	503.59	619	20	0.87	J-1296	Carlson Cir.
J-426	500	618.77	503.59	622.36	20.01	0.87	J-1296	Tiffany Ave.
J-8087	500	619.36	503.04	622.4	20	0.87	J-1296	Cook St.
J-250	500	620.3	503.59	623.89	20	0.87	J-1296	Napolean St.
J-7333	500	620.99	503.04	624.03	20.03	7.28	J-8307	Irene St.
J-7949	500	621.55	503.04	624.59	20	0.87	J-1296	Elmonte Dr.
J-5067	500	623.32	503.31	626.63	20.02	20.51	J-5065	Briarwood Rd.
J-423	500	623.74	503.59	627.33	20.01	0.87	J-1296	Boucher St.
J-2553	500	624.34	503.95	628.29	20.01	0.87	J-1296	New London Ave.
J-312	500	624.93	503.59	628.52	20.01	0.87	J-1296	Lexington Ave.
J-5066	500	625.76	503.31	629.07	20.02	20.17	J-5065	Versailles St.
J-5065	500	626.89	503.31	630.2	20.02	20.88	J-5067	Versailles St.
J-7855	500	627.47	503.04	630.51	20.01	0.87	J-1296	Read Ave.
J-387	500	628.45	503.59	632.04	20.01	0.87	J-1296	Judy Ter.
J-7692	500	628.67	503.04	631.71	20.01	0.87	J-1296	Batley Ave.
J-7708	500	628.74	503.04	631.78	20.03	7.28	J-8307	Meeting St.
J-873	500	630.41	503.59	634	20.01	0.87	J-1296	Payan St.
J-7492	500	630.47	503.04	633.51	20	0.87	J-1296	Larchmont Dr.
J-2485	500	630.8	503.95	634.75	20.03	0.87	J-1296	Adelaide Ave.
J-7464	500	631.85	503.04	634.89	20	0.87	J-1296	Forestdale St.
J-292	500	631.96	503.59	635.55	20	0.87	J-1296	St. George St.
J-5078	500	632.55	503.31	635.86	20.02	14.34	J-5082	Rainbow Rd.
J-5079	500	632.63	503.31	635.94	20.02	13.1	J-5082	Burdick Dr.
J-5063	500	633.43	503.31	636.74	20.02	16.55	J-5082	Burdick Dr.
J-8058	500	633.99	503.04	637.03	20	7.28	J-8307	Colvintown Rd.
J-910	500	634.16	503.59	637.75	32.49	0.01	J-907	Church St.
J-5083	500	634.32	503.31	637.63	20.02	11.7	J-5082	Burdick Dr.
J-2360	500	634.57	503.95	638.52	20.15	0.02	J-2358	Country View Dr.
J-5068	500	635.76	503.31	639.07	20.02	28.11	J-5082	Woodlawn Dr.
J-7887	500	636.15	503.04	639.19	20	0.87	J-1296	Marshall Cir.
J-7950	500	637.27	503.04	640.31	20	0.87	J-1296	Canyon Dr.
J-244	500	637.3	503.59	640.89	20.01	0.87	J-1296	Fornelli St.
J-5075	500	638.32	503.31	641.63	20.02	14.82	J-5082	Ontario Ave.
J-246	500	638.81	503.59	642.4	20.01	0.87	J-1296	Newell St.
J-4105	500	639.91	504.45	644.36	20	0.87	J-1296	Granite Dr.
J-1018	500	642.29	503.59	645.88	20	0.87	J-1296	Terrace Ave.
J-7709	500	643.79	503.04	646.83	20.04	7.28	J-8307	Benoit St.
J-7420	500	644.67	503.04	647.71	20	0.87	J-1296	Barber St.
J-5076	500	645.6	503.31	648.91	20.02	13.85	J-5082	Ontario Ave.
J-916	500	646.9	503.59	650.49	34.41	0.02	J-886	Manchester St.
J-7852	500	646.94	503.04	649.98	20.01	0.87	J-1296	Bassett St.
J-5081	500	648.28	503.31	651.59	20.03	10.21	J-5082	Sunkist Cir.

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J-162	500	648.41	503.59	652	25.97	0	J-166	Alden Dr.
J-163	500	648.42	503.59	652.01	22.56	0	J-166	Alden Dr.
J-7851	500	648.95	503.04	651.99	20.01	0.87	J-1296	Ernest St.
J-7499	500	649.38	503.04	652.42	20	0.87	J-1296	Audrey Ct.
J-1141	500	649.92	503.59	653.51	20.02	0.87	J-1296	Dawes St.
J-2541	500	650.61	503.95	654.56	20	22.81	J-2540	Oak St.
J-7670	500	650.71	503.04	653.75	20	0.87	J-1296	Laurel Ave.
J-7654	500	651.94	503.04	654.98	20	0.87	J-1296	Ray St.
J-7510	500	652.33	503.04	655.37	20	0.87	J-1296	Angelwood Dr.
J-4473	500	653.34	504.45	657.79	20	22.24	J-4474	Reynolds St.
J-8169	500	654.49	507.8	662.29	20	0.87	J-1296	Hornbeam Rd.
J-2489	500	654.88	503.95	658.83	20.04	0.87	J-1296	Adelaide Ave.
J-2471	500	655.19	503.95	659.14	20	0.87	J-1296	Rossi St.
J-170	500	656.55	503.59	660.14	20.02	19.29	J-171	Glendale Dr.
J-3071	500	657.03	507.7	664.73	20	6.49	J-8319	Buck Hollow Dr.
J-5080	500	657.3	503.31	660.61	20.03	8.91	J-5082	Sunkist Cir.
J-755	500	657.68	503.59	661.27	20	0.87	J-1296	Oak St.
J-2540	500	657.99	503.95	661.94	20	21.01	J-2541	Coyle St.
J-2324	500	659.29	503.95	663.24	20	0.87	J-1296	Blue Ridge Rd.
J-4474	500	660.66	504.45	665.11	20	20.87	J-4473	Mawney St.
J-2322	500	661.89	503.95	665.84	20	0.87	J-1296	Blue Ridge Rd.
J-7948	500	662.79	503.04	665.83	20	0.87	J-1296	Elmorte Dr.
J-317	500	665.09	503.59	668.68	20	0.87	J-1296	Lenox Ave.
J-209	500	669.1	503.59	672.69	20	0.87	J-1296	Fiume St.
J-5062	500	669.79	503.31	673.1	20.03	18.25	J-5082	Versailles St.
J-276	500	669.81	503.59	673.4	20.01	0.87	J-1296	Rex St.
J-5091	500	670.75	503.31	674.06	20	45.94	J-166	Moon Ave.
J-4104	500	671.29	504.45	675.74	20	0.87	J-1296	Limerock Dr.
J-984	500	671.3	503.59	674.89	20	0.87	J-1296	Colvin St.
J-389	500	671.85	503.59	675.44	20	0.87	J-1296	Tina Dr. (Private)
J-421	500	672.93	503.59	676.52	20	0.87	J-1296	Dawes St.
J-275	500	673.02	503.59	676.61	20.01	0.87	J-1296	Queen Ave.
J-2490	500	673.35	503.95	677.3	20.05	0.87	J-1296	Adelaide Ave.
J-161	500	674.33	503.59	677.92	20.46	0.05	J-166	Shortway Dr.
J-160	500	674.74	503.59	678.33	25.97	0	J-166	Shortway Dr.
J-2472	500	680.03	503.95	683.98	20	0.87	J-1296	Rossi St.
J-6067	500	680.22	502.76	682.98	20	0.87	J-1296	Ives St.
J-533	500	680.28	503.59	683.87	20.04	0.87	J-1296	Epworth Ave.
J-2138	500	680.29	503.95	684.24	20	0.87	J-1296	Red Chimney Dr.
J-8250	500	681.39	500	681.39	20.01	32.84	J-7394	Helen Ave.
J-169	500	681.55	503.59	685.14	20.02	16.13	J-171	Glendale Dr.
J-7405	500	682	503.04	685.04	20	0.87	J-1296	Coventry/Spring Lake Well Field
J-351	500	685.1	503.59	688.69	20.03	0.87	J-1296	Tampa St.
J-567	500	688.9	503.59	692.49	20.01	0.87	J-1296	Andrew Ave.
J-247	500	689.32	503.59	692.91	20.02	0.87	J-1296	Cantara St.
J-5034	500	689.94	503.31	693.25	20.01	36.05	J-5028	Warren Ave.
J-2486	500	690	503.95	693.95	20.06	0.87	J-1296	Levesque St.
J-420	500	691.65	503.59	695.24	20	0.87	J-1296	Buckley Ave.
J-534	500	691.65	503.59	695.24	20	0.87	J-1296	Crossen St.
J-7216	500	694.72	503.04	697.76	20.04	7.28	J-8307	Francis St.
J-638	500	695.28	503.59	698.87	20	0.87	J-1296	Gough Ave.
J-7567	500	696.02	503.04	699.06	20	0.87	J-1296	Holmes Rd.
J-2558	500	696.06	503.95	700.01	20.03	0.87	J-1296	Cactus St.
J-396	500	697.18	503.59	700.77	20	0.87	J-1296	Fairgreen Dr.
J-2557	500	697.24	503.95	701.19	20.03	0.87	J-1296	Crocus St.
J-7504	500	697.4	503.04	700.44	20	0.87	J-1296	Charlotte St.
J-2556	500	697.7	503.95	701.65	20.03	0.87	J-1296	Cactus St.
J-7815	500	699.35	503.04	702.39	20.01	0.87	J-1296	Macarthur Blvd.
J-7349	500	699.46	503.04	702.5	20	0.87	J-1296	Morningside Dr.
J-4110	500	700.62	504.45	705.07	20	0.87	J-1296	Darl Ct.
J-739	500	700.71	503.59	704.3	20	0.87	J-1296	Hoover St.
J-245	500	700.97	503.59	704.56	20.02	0.87	J-1296	Petti Dr.
J-450	500	701.62	503.59	705.21	20.02	0.87	J-1296	Carlton Pl.
J-8136	500	702.35	503.04	705.39	20.01	0.87	J-1296	Sandalwood Ct.
J-661	500	702.42	503.59	706.01	20.01	0.87	J-1296	Quinn Dr.
J-4109	500	703.78	504.45	708.23	20	0.87	J-1296	Darl Ct.
J-249	500	703.84	503.59	707.43	20.02	0.87	J-1296	Napoleon St.
J-577	500	704.99	503.59	708.58	20.01	0.87	J-1296	West St.
J-486	500	705.35	503.59	708.94	20	0.87	J-1296	Podgurski St.
J-385	500	706.4	503.59	709.99	20	0.87	J-1296	Judy Ter.

Kent County Water Authority  
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Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction	Street/Location
J-2251	500	707.45	503.95	711.4	20.01	22.94	J-2281	Bruce Ln.
J-4069	500	707.87	504.45	712.32	20	0.87	J-1296	Rosewood Ct.
J-8075	500	708.06	503.04	711.1	20.01	0.87	J-1296	Capwell St.
J-2320	500	709.4	503.95	713.35	20	0.87	J-1296	Blue Ridge Rd.
J-243	500	709.9	503.59	713.49	20.02	0.87	J-1296	Newell St.
J-7497	500	710.92	503.04	713.96	20	0.87	J-1296	Coventry Dr.
J-2477	500	715.06	503.95	719.01	20	0.87	J-1296	Railroad Row
J-1248	500	716.32	500	716.32	20.02	0.87	J-1296	Centerville Mills
J-5061	500	716.47	503.31	719.78	20	19.89	J-5082	Woodlawn Dr.
J-7601	500	716.84	503.04	719.88	20	28.63	J-7600	Mohawk St.
J-7439	500	716.94	503.04	719.98	20	0.87	J-1296	Bank St.
J-2323	500	717.38	503.95	721.33	20	0.87	J-1296	Alicia Ct.
J-2482	500	722.7	503.95	726.65	20.08	0.87	J-1296	O'Donnell Ave.
J-2504	500	725.24	503.95	729.19	20	21.88	J-2502	Beverly Rd.
J-986	500	725.33	503.59	728.92	20	0.87	J-1296	Maple St.
J-253	500	726.12	503.59	729.71	20.03	0.87	J-1296	Newell St.
J-7330	500	726.77	503.04	729.81	20	7.28	J-8307	Benoit St.
J-7467	500	728.88	503.04	731.92	20.01	0.87	J-1296	Clearview Dr.
J-280	500	730.17	503.59	733.76	20.01	0.87	J-1296	Webster Knight Dr.
J-7505	500	730.89	503.04	733.93	20	0.87	J-1296	Morris St.
J-806	500	730.96	503.59	734.55	20	0.87	J-1296	Summit Ave.
J-252	500	731.02	503.59	734.61	20.03	0.87	J-1296	Newell St.
J-7329	500	732.89	503.04	735.93	20	7.28	J-8307	Benoit St.
J-6038	500	733.04	503.31	736.35	20.01	26.14	J-5037	Amanda Ct.
J-1092	500	733.29	503.59	736.88	20	0.87	J-1296	Morris St.
J-2488	500	736.32	503.95	740.27	20.08	0.87	J-1296	Jambray Ave.
J-8249	500	737.11	500	737.11	20.01	34.37	J-7394	Maude Ave.
J-2321	500	737.75	503.95	741.7	20	0.87	J-1296	Alanna Ct.
J-1268	500	737.81	500	737.81	20	0.87	J-1296	Hunters Reserve
J-530	500	738.9	503.59	742.49	20.02	0.87	J-1296	Main St.
J-258	500	738.97	503.59	742.56	21.81	0	J-262	Tower Rd.
J-7508	500	742.1	503.04	745.14	20	0.87	J-1296	Coventry Dr.
J-251	500	742.43	503.59	746.02	20.04	0.17	J-248	Babcock St.
J-859	500	744.5	503.59	748.09	21.01	0.04	J-860	Potter Ave.
J-335	500	744.99	503.59	748.58	20.04	0.87	J-1296	Bel Air Ave.
J-7494	500	745.73	503.04	748.77	20	0.87	J-1296	York Dr.
J-256	500	746.94	503.59	750.53	26.07	0	J-262	Tanglewood Dr.
J-964	500	747.87	503.59	751.46	20.01	0.87	J-1296	Field Ave.
J-332	500	748.25	503.59	751.84	20.03	0.87	J-1296	Faxon St.
J-159	500	748.35	503.59	751.94	29.45	0	J-166	Alden Dr.
J-3024	500	748.48	503.71	752.19	20.01	31.29	J-3023	Cambio Ct.
J-7675	500	748.57	503.04	751.61	20	0.87	J-1296	Laurel Ave.
J-1007	500	749.39	503.59	752.98	20	0.87	J-1296	Le Valley St.
J-2333	500	749.49	503.95	753.44	20	0.87	J-1296	Cowesett Rd.
J-881	500	749.58	503.59	753.17	20.01	0.87	J-1296	Gough Ave.
J-241	500	750.06	503.59	753.65	20.04	0.87	J-1296	Petti Dr.
J-264	500	751.87	503.59	755.46	38.46	0	J-262	Morningside Dr.
J-2604	500	751.94	503.95	755.89	20.01	0.87	J-1296	Benefit St.
J-1002	500	755.22	503.59	758.81	20	0.87	J-1296	Le Valley St.
J-366	500	756.04	503.59	759.63	20	0.87	J-1296	Coit Ave.
J-8221	500	756.32	503.04	759.36	20	7.27	J-8307	Colvintown Rd.
J-7463	500	757.1	503.04	760.14	20.02	0.87	J-1296	Wendell St.
J-1267	500	757.59	500	757.59	20	0.87	J-1296	Hunters Reserve
J-7673	500	758.08	503.04	761.12	20	0.87	J-1296	Reddington St.
J-7666	500	758.47	503.04	761.51	20.02	0.87	J-1296	Donovan St. (Private)
J-7538	500	758.69	503.04	761.73	20	0.87	J-1296	Twin Lakes Ave.
J-257	500	758.74	503.59	762.33	36.2	0.02	J-262	Morningside Dr.
J-242	500	758.93	503.59	762.52	20.04	0.87	J-1296	Newell St.
J-7533	500	760.12	503.04	763.16	20	0.87	J-1296	Johnson Blvd.
J-2487	500	761.23	503.95	765.18	20.66	0.11	J-2485	Jambray Ave.
J-7919	500	763.83	503.04	766.87	20	0.87	J-1296	Hillside Ave.
J-291	500	765.21	503.59	768.8	20	0.13	J-262	St. George St.
J-2092	500	765.33	503.95	769.28	20	0.87	J-1296	Major Potter Rd.
J-240	500	765.36	503.59	768.95	20.05	0.87	J-1296	River Ave.
J-5037	500	765.37	503.31	768.68	20.02	22.72	J-5038	Amanda St.
J-8305	500	765.95	500	765.95	21.03	0	J-7354	Noosneck Hill Rd.
J-7541	500	766.08	503.04	769.12	20	0.87	J-1296	Glen Ave.
J-807	500	766.83	503.59	770.42	20	0.87	J-1296	Summit Ave.
J-304	500	767.56	503.59	771.15	20.03	0.87	J-1296	Edith St.
J-333	500	767.77	503.59	771.36	20	0.87	J-1296	Mary Ave.

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J-7214	500	767.78	503.04	770.82	20	7.27	J-8307	Holden St.
J-255	500	767.95	503.59	771.54	43.66	0.01	J-262	Tanglewood Dr.
J-565	500	768.83	503.59	772.42	20	0.87	J-1296	West Warwick Ave.
J-4068	500	768.89	504.45	773.34	20	0.87	J-1296	Rosewood Ct.
J-273	500	769.52	503.59	773.11	20.38	0	J-262	New London Ave.
J-2470	500	769.71	503.95	773.66	20.01	0.87	J-1296	Burton St.
J-7203	500	769.9	503.04	772.94	20	7.27	J-8307	Abbotts Crossing Rd.
J-1066	500	769.96	503.59	773.55	20.74	0	J-262	Hilltop Ave.
J-272	500	769.98	503.59	773.57	26.06	0	J-262	Park Blvd.
J-7454	500	770.19	503.04	773.23	20	0.87	J-1296	Brentwood Dr.
J-7215	500	770.26	503.04	773.3	20	7.27	J-8307	Holden St.
J-208	500	770.68	503.59	774.27	20.01	0.87	J-1296	Barbers Ct.
J-289	500	771.1	503.59	774.69	22.3	0	J-262	Gerald St.
J-278	500	771.13	503.59	774.72	27.91	0	J-262	Queen Ave.
J-966	500	771.63	503.59	775.22	20.01	0.87	J-1296	Oriole Ave.
J-277	500	772.21	503.59	775.8	37.16	0	J-262	Park Blvd.
J-7256	500	773.5	503.04	776.54	20	7.27	J-8307	Watercress Ct.
J-286	500	773.56	503.59	777.15	36.21	0.01	J-262	Earl St.
J-279	500	775.99	503.59	779.58	23.2	0.01	J-262	Webster Knight Dr.
J-738	500	776.35	503.59	779.94	20	0.87	J-1296	Horta Dr.
J-2476	500	777.79	503.95	781.74	20.01	0.87	J-1296	West Pontiac St.
J-281	500	779.05	503.59	782.64	31.61	0	J-262	Earl St.
J-285	500	780.6	503.59	784.19	36.6	0	J-262	Border St.
J-7254	500	781.02	503.04	784.06	20	7.27	J-8307	Teakwood Dr. West
J-7331	500	781.15	503.04	784.19	20	7.27	J-8307	Boston St.
J-196	500	781.6	503.59	785.19	20	0.87	J-1296	Wakefield St.
J-7674	500	784.44	503.04	787.48	20	0.87	J-1296	Laurel Ave.
J-284	500	784.6	503.59	788.19	42.09	0	J-262	Border St.
J-180	500	785.09	503.59	788.68	20.03	26.36	J-179	Alden Dr.
J-7873	500	785.19	503.04	788.23	20	0.87	J-1296	Park Ave.
J-7255	500	785.86	503.04	788.9	20	7.27	J-8307	Deer Run Rd.
J-7213	500	786.46	503.04	789.5	20	7.27	J-8307	Holden St.
J-287	500	786.55	503.59	790.14	28.97	0	J-262	Border St.
J-8248	500	786.79	500	786.79	20.02	22.7	J-7381	Lorraine Ave.
J-4624	500	787.74	500	787.74	20	0.87	J-1296	Brooks Pharmacy Domestic Line
J-207	500	787.97	503.59	791.56	25.16	0.01	J-220	Barbers Ct.
J-622	500	788.19	503.59	791.78	20.01	0.87	J-1296	Bouchard St.
J-5126	500	789.75	503.31	793.06	20	45.82	J-166	Normandy Dr.
J-288	500	790.12	503.59	793.71	27.55	0	J-262	Earl St.
J-7816	500	790.32	503.04	793.36	20.02	0.87	J-1296	Cardinal Ave.
J-7507	500	790.72	503.04	793.76	20	0.87	J-1296	Morris St.
J-2658	500	791.59	500	791.59	20	0.87	J-1296	Major Potter Rd.
J-7672	500	791.88	503.04	794.92	20	32.51	J-7671	Amherst Ave.
J-2554	500	793.49	503.95	797.44	20	0.87	J-1296	Bridal Ave.
J-7253	500	793.74	503.04	796.78	20	7.27	J-8307	Deer Run Rd.
J-239	500	794.71	503.59	798.3	20.06	0.87	J-1296	Newell St.
J-7252	500	795.15	503.04	798.19	20	7.27	J-8307	Teakwood Dr. West
J-4438	500	796.09	504.45	800.54	20.01	24.62	J-2502	Kenyon Ave.
J-7846	500	796.73	503.04	799.77	20	0.87	J-1296	Ann Ct.
J-652	500	796.78	503.59	800.37	20.01	0.87	J-1296	Harris Ave.
J-7426	500	797.57	503.04	800.61	20	0.87	J-1296	South Main St.
J-655	500	798.72	503.59	802.31	20	0.87	J-1296	Peters Ln.
J-353	500	798.73	503.59	802.32	20	0.87	J-1296	Evelyn St.
J-365	500	798.74	503.59	802.33	20	0.87	J-1296	Coit Ave.
J-778	500	799.71	503.59	803.3	20.01	0.87	J-1296	Centracchio St.
J-7810	500	800.53	503.04	803.57	20	0.87	J-1296	Doolittle St.
J-7700	500	800.58	503.04	803.62	20	0.87	J-1296	Contentment Dr.
J-355	500	800.8	503.59	804.39	20	0.87	J-1296	Ontario St.
J-367	500	801.57	503.59	805.16	20	0.87	J-1296	Audrey Dr.
J-5036	500	801.69	503.31	805	20.02	18.73	J-5038	Amanda St.
J-7849	500	802.22	503.04	805.26	20	0.87	J-1296	Rathburn St.
J-306	500	802.91	503.59	806.5	20	0.87	J-1296	Wells St.
J-206	500	804.62	503.59	808.21	25.24	0.01	J-220	Fiume St.
J-7248	500	805.31	503.04	808.35	20	7.27	J-8307	Laura Ct.
J-7539	500	805.5	503.04	808.54	20	0.87	J-1296	Henry Ave.
J-8073	500	806.48	503.04	809.52	20	40.56	J-7595	Mohawk St.
J-1273	500	807.63	500	807.63	20.01	0.87	J-1296	Hunters Reserve
J-7669	500	808.77	503.04	811.81	20.01	0.87	J-1296	Bernard Dr.
J-494	500	809.33	503.59	812.92	20	0.87	J-1296	Aldrich St.
J-7381	500	810.81	503.04	813.85	20.03	33.44	J-8248	Lorraine Ave.

Kent County Water Authority  
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J-1012	500	810.93	503.59	814.52	20	0.87	J-1296	Richard St.
J-789	500	811.81	503.59	815.4	22.97	0	J-792	Linwood St.
J-7394	500	812.83	503.04	815.87	20.03	28.1	J-7393	Helen Ave.
J-7947	500	814.52	503.04	817.56	20.01	0.87	J-1296	Elmonte Dr.
J-76	500	814.7	503.59	818.29	20.02	0.87	J-1296	Kimberly Ln.
J-7859	500	816.63	503.04	819.67	20	0.87	J-1296	Bennett St.
J-4494	500	817.31	504.45	821.76	20.01	23.96	J-2502	Pierce St.
J-2469	500	819.19	503.95	823.14	20.01	0.87	J-1296	Centerville Commons
J-1093	500	820.06	503.59	823.65	20	0.87	J-1296	Morris St.
J-4067	500	823.32	504.45	827.77	20	0.87	J-1296	Quail Ct.
J-7536	500	824.38	503.04	827.42	20	0.87	J-1296	Twin Lakes Ave.
J-8278	500	824.39	500	824.39	23.47	0	J-7354	Tiogou Ave.
J-7250	500	826.24	503.04	829.28	20	7.27	J-8307	Heather Ct.
J-676	500	828.26	503.59	831.85	20.01	0.87	J-1296	Sunrise Ave.
J-2190	500	828.69	503.95	832.64	20.01	0.87	J-1296	Major Potter Rd.
J-595	500	828.81	503.59	832.4	20	0.87	J-1296	Crawford St.
J-238	500	830.48	503.59	834.07	20	0.87	J-1296	Newell St.
J-331	500	831.08	503.59	834.67	20	0.87	J-1296	Mary Ave.
J-334	500	831.36	503.59	834.95	20	0.87	J-1296	Mason St.
J-1017	500	834.25	503.59	837.84	20.01	0.87	J-1296	Broad St.
J-7251	500	834.96	503.04	838	20	7.27	J-8307	Teakwood Dr. West
J-2212	500	836.32	503.95	840.27	20.06	0.87	J-1296	Flagg Ave.
J-2197	500	836.45	503.95	840.4	20.01	0.87	J-1296	Welthian Ct.
J-7864	500	838.76	503.04	841.8	20.03	0.87	J-1296	Phillip St.
J-7075	500	838.86	503.04	841.9	20	26.84	J-7076	Island Dr.
J-754	500	839.14	503.59	842.73	20	0.87	J-1296	Clyde St.
J-7531	500	840.29	503.04	843.33	20	0.87	J-1296	Colonial Rd.
J-329	500	841.31	503.59	844.9	20	0.87	J-1296	Ethel Ave.
J-4258	500	842.31	504.45	846.76	20.01	25.76	J-2508	Devon Pl.
J-501	500	843.77	503.59	847.36	20	0.87	J-1296	Harvest Dr.
J-7872	500	846.56	503.04	849.6	20	0.87	J-1296	Greenwood Ave.
J-384	500	847.38	503.59	850.97	20	0.87	J-1296	Judy Ter.
J-757	500	848.28	503.59	851.87	20.01	0.87	J-1296	Smith St.
J-233	500	848.53	503.59	852.12	20	0.87	J-1296	Blossom St.
J-7415	500	848.74	503.04	851.78	20	0.74	J-7354	Lowell St.
J-1264	500	849.21	500	849.21	20.01	0.87	J-1296	Hunters Reserve
J-7249	500	849.42	503.04	852.46	20	7.27	J-8307	Heather Ct.
J-2098	500	850.53	503.95	854.48	20.04	0.87	J-1296	Hallmark Dr.
J-2057	500	850.81	503.95	854.76	20.04	0.87	J-1296	Viceroy Rd.
J-800	500	852.95	503.59	856.54	20	0.87	J-1296	Sternbach St.
J-4497	500	853.4	504.45	857.85	20.01	23.36	J-2502	Marion St.
J-7779	500	854.24	503.04	857.28	20	0.87	J-1296	Hornbeam Rd.
J-303	500	854.47	503.59	858.06	20	0.87	J-1296	Bishop St.
J-179	500	855.1	503.59	858.69	20	20.43	J-180	Alden Dr.
J-7076	500	855.45	503.04	858.49	20	23.39	J-7075	Island Dr.
J-2135	500	855.98	503.95	859.93	20	0.87	J-1296	North Winnisquam Dr.
J-7537	500	857.48	503.04	860.52	20	0.87	J-1296	Loretta Ave.
J-5028	500	859.12	503.31	862.43	20.04	24.69	J-5029	Loring St.
J-1159	500	859.21	503.59	862.8	20	0.87	J-1296	Grant St.
J-1263	500	861.56	500	861.56	20.01	0.87	J-1296	Hunters Reserve
J-319	500	863.15	503.59	866.74	20	0.87	J-1296	Revere Ave.
J-3036	500	863.32	503.71	867.03	20	16.68	J-3038	Valerie Dr.
J-7493	500	863.52	503.04	866.56	20	0.87	J-1296	Larchmont Dr.
J-783	500	865.95	503.59	869.54	20	0.87	J-1296	Phenix Ave.
J-4066	500	866.4	504.45	870.85	20.01	0.87	J-1296	Quail Ct.
J-1161	500	866.81	503.59	870.4	20	0.87	J-1296	Ontario St.
J-958	500	867.18	503.59	870.77	20.02	0.87	J-1296	Esmond St.
J-4531	500	867.72	504.45	872.17	20.03	23.63	J-2502	Crompton Ave.
J-939	500	867.73	503.59	871.32	20	0.87	J-1296	East Greenwich Ave.
J-883	500	867.98	503.59	871.57	21.42	0	J-880	Payan St.
J-136	500	868.7	503.59	872.29	20	26.47	J-137	Forest Ave.
J-7786	500	869.21	503.04	872.25	20	0.87	J-1296	Nancy Ct.
J-4219	500	869.45	504.45	873.9	20	25.36	J-2508	Walnut Dr.
J-7247	500	869.5	503.04	872.54	20	7.27	J-8307	Laura Ct.
J-2013	500	869.68	503.95	873.63	20	0.87	J-1296	Baldwin Rd.
J-7769	500	871.93	503.04	874.97	20	0.87	J-1296	Manning Ct.
J-7385	500	872.52	503.04	875.56	20.04	32.74	J-7384	Noella Ave.
J-360	500	874.51	503.59	878.1	20	0.87	J-1296	Glen Dr.
J-1016	500	875.09	503.59	878.68	20.01	0.87	J-1296	Summit Ave.
J-850	500	875.18	503.59	878.77	20	0.87	J-1296	St. Mary St.

Kent County Water Authority  
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J-7848	500	876.04	503.04	879.08	20	0.87	J-1296	Read Ave.
J-2134	500	876.17	503.95	880.12	20	0.87	J-1296	North Winnisquam Dr.
J-7080	500	876.42	503.04	879.46	20	32.86	J-3038	Sharon Dr.
J-2133	500	876.95	503.95	880.9	20	0.87	J-1296	Contour Rd.
J-510	500	877.04	503.59	880.63	20	0.87	J-1296	Creighton Pl.
J-168	500	878.34	503.59	881.93	20	18.95	J-166	Alden Dr.
J-7684	500	881.32	503.04	884.36	20	0.87	J-1296	Taft St.
J-7634	500	881.5	503.04	884.54	20	0.87	J-1296	Bonney St.
J-7409	500	882.44	503.04	885.48	21.76	0	J-7354	Tiogue Ave.
J-7600	500	882.59	503.04	885.63	20	20	J-7601	Mohawk St.
J-2355	500	882.86	503.95	886.81	30.32	0.03	J-2358	Country View Dr.
J-566	500	883.03	503.59	886.62	20	0.87	J-1296	Andrew Ave.
J-7511	500	883.27	503.04	886.31	20	0.87	J-1296	Angelwood Dr.
J-350	500	883.8	503.59	887.39	20	0.87	J-1296	Tampa St.
J-7407	500	883.92	503.04	886.96	21.7	0	J-7354	Tiogue Ave.
J-959	500	884.55	503.59	888.14	20	0.87	J-1296	New London Tpk.
J-7410	500	884.82	503.04	887.86	21.76	0	J-7354	Tiogue Ave.
J-2198	500	885.33	503.95	889.28	20.02	0.87	J-1296	Welthian Ct.
J-2215	500	886.99	503.95	890.94	20.01	0.87	J-1296	Founder Ave.
J-659	500	886.99	503.59	890.58	20	0.87	J-1296	Woodside Ave.
J-7291	500	887.22	503.04	890.26	20.01	7.27	J-8307	Ginger Tr.
J-7245	500	887.77	503.04	890.81	20	7.27	J-8307	Watercress Ct.
J-7532	500	887.77	503.04	890.81	20	0.87	J-1296	Colonial Rd.
J-934	500	888.25	503.59	891.84	20.03	0.87	J-1296	Cowesett Rd.
J-7007	500	888.77	503.04	891.81	20.02	30.23	J-3038	Isle of Capri Rd.
J-2127	500	888.85	503.95	892.8	20	0.87	J-1296	Cobble Hill Rd.
J-7408	500	889.16	503.04	892.2	20.19	0	J-7354	Tiogue Ave.
J-756	500	889.86	503.59	893.45	20.01	0.87	J-1296	Oak St.
J-5027	500	890.14	503.31	893.45	20.04	20.68	J-5028	Amanda St.
J-4495	500	890.58	504.45	895.03	20.01	11.86	J-4494	Dedford St.
J-7676	500	891.34	503.04	894.38	20	0.87	J-1296	Pilgrim Ave.
J-2208	500	891.6	503.95	895.55	20.01	0.87	J-1296	Sutter Ave.
J-406	500	891.71	503.59	895.3	31.63	0	J-381	Cowesett Rd.
J-7503	500	891.87	503.04	894.91	20	0.87	J-1296	Charlotte St.
J-1094	500	892.68	503.59	896.27	20	0.87	J-1296	Roundway Dr.
J-7512	500	892.93	503.04	895.97	20	0.87	J-1296	Lawnwood Rd.
J-2493	500	894	503.95	897.95	20.01	0.87	J-1296	Hill Top Dr.
J-8066	500	894.33	503.04	897.37	20	0.87	J-1296	Bates Ave.
J-2316	500	894.44	503.95	898.39	20.02	0.87	J-1296	Hardig Rd. (Private)
J-153	500	895.13	503.59	898.72	20	24.78	J-166	Midway Dr.
J-480	500	896.13	503.59	899.72	20	0.87	J-1296	Morris St.
J-6066	500	896.72	502.76	899.48	20	0.87	J-1296	North Rd.
J-938	500	897.12	503.59	900.71	20.02	0.87	J-1296	East Greenwich Ave.
J-952	500	899.16	503.59	902.75	20	0.87	J-1296	East Greenwich Ave.
J-1271	500	900.1	500	900.1	20.01	0.87	J-1296	Hunters Reserve
J-2286	500	900.42	503.95	904.37	20	21.51	J-2281	Lantern Ln.
J-7246	500	901.73	503.04	904.77	20.01	7.26	J-8307	Watercress Ct.
J-1237	500	901.86	500	901.86	20	0.87	J-1296	East Greenwich Ave.
J-2305	500	902.78	503.95	906.73	20.01	23.2	J-2502	Duane St.
J-5029	500	902.92	503.31	906.23	20	16.46	J-5028	Benjamin St.
J-7393	500	903.03	503.04	906.07	20	20	J-7394	Maude Ave.
J-7074	500	903.33	503.04	906.37	20	18.27	J-7075	Island Dr.
J-7677	500	903.89	503.04	906.93	20	0.87	J-1296	Matteson St.
J-4448	500	904.11	504.45	908.56	20.01	24.18	J-2502	Kenyon Ave.
J-884	500	904.58	503.59	908.17	20	0.87	J-1296	Gough Ave.
J-2319	500	905.89	503.95	909.84	20	0.87	J-1296	Katelyn Ct.
J-349	500	905.89	503.59	909.48	20	0.87	J-1296	Coit Ave.
J-7290	500	905.98	503.04	909.02	20.01	7.26	J-8307	Almond Way
J-336	500	906.29	503.59	909.88	20	0.87	J-1296	Tampa St.
J-7814	500	906.38	503.04	909.42	20	0.87	J-1296	Cardinal Ave.
J-5023	500	907	503.31	910.31	20.02	36.61	J-5028	Allard St.
J-935	500	907.33	503.59	910.92	20.03	0.87	J-1296	Manchester St.
J-2015	500	907.84	503.95	911.79	20	0.87	J-1296	Douglas Rd.
J-151	500	908.4	503.59	911.99	20	24.28	J-166	Woodland Dr.
J-1270	500	910.96	500	910.96	20.01	0.87	J-1296	Hunters Reserve
J-7904	500	911.36	503.04	914.4	20	0.87	J-1296	Sunrise Ave.
J-735	500	911.96	503.59	915.55	20	0.87	J-1296	Vincenzo Dr.
J-2131	500	913.43	503.95	917.38	20	0.87	J-1296	Peacock Rd.
J-7861	500	914.03	503.04	917.07	20	0.87	J-1296	Read Ave.
J-8246	500	914.24	500	914.24	20.05	34.9	J-7401	Clifton Ave.

Kent County Water Authority  
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J-744	500	914.37	503.59	917.96	20.01	0.87	J-1296	Grace Ct.
J-5035	500	914.98	503.31	918.29	20.05	15.28	J-5038	Amanda St.
J-7449	500	916.27	503.04	919.31	20	0.87	J-1296	Rathbun St.
J-1269	500	916.53	500	916.53	20.01	0.87	J-1296	Hunters Reserve
J-1064	500	917.77	503.59	921.36	20	0.87	J-1296	Brookfield Dr.
J-7461	500	917.81	503.04	920.85	20	0.87	J-1296	Whitman St.
J-810	500	918.41	503.59	922	20	0.87	J-1296	Highland St.
J-204	500	920.41	503.59	924	28.35	0.01	J-220	McTeers Ct.
J-4471	500	920.47	504.45	924.92	20.01	23.86	J-2502	Mawney St.
J-551	500	921.07	503.59	924.66	20	0.87	J-1296	Roosevelt St.
J-2354	500	923.25	503.95	927.2	30.89	0.02	J-2358	Gauvin Dr.
J-181	500	923.29	503.59	926.88	20	20.22	J-178	Crossland Dr.
J-2353	500	923.55	503.95	927.5	37.44	0.01	J-2358	Gauvin Dr.
J-7664	500	924.98	503.04	928.02	20.02	0.87	J-1296	Pilgrim Ave.
J-621	500	927.25	503.59	930.84	20	0.87	J-1296	Bouchard St.
J-1010	500	928.29	503.59	931.88	20.01	0.87	J-1296	Pleasant St.
J-4378	500	929.8	504.45	934.25	20	24.99	J-2508	Oakwood Dr.
J-761	500	930.52	503.59	934.11	20.01	0.87	J-1296	Vine St.
J-7280	500	931.19	503.04	934.23	20.01	7.26	J-8307	Cinnamon Ct.
J-498	500	932.1	503.59	935.69	20	0.87	J-1296	Sophia's Way
J-936	500	933.38	503.59	936.97	20	0.87	J-1296	East Greenwich Ave.
J-1266	500	933.86	500	933.86	20.01	0.87	J-1296	Hunters Reserve
J-7289	500	933.97	503.04	937.01	20.01	7.26	J-8307	Almond Way
J-305	500	935.8	503.59	939.39	20	0.87	J-1296	Wells St.
J-5026	500	936.2	503.31	939.51	20	16.65	J-5028	Loring St.
J-2466	500	937.34	503.95	941.29	20.01	0.87	J-1296	Blade St.
J-7905	500	938.81	503.04	941.85	20	0.87	J-1296	Fairview Ave.
J-6012	500	942.27	502.76	945.03	20	0.87	J-1296	Main St.
J-8029	500	942.47	503.04	945.51	20.01	0.87	J-1296	Windsor Park Dr.
J-568	500	942.93	503.59	946.52	20	0.87	J-1296	West St.
J-7425	500	943.78	503.04	946.82	20	0.87	J-1296	Potters St.
J-449	500	944.5	503.59	948.09	20	0.87	J-1296	Carlton Pl.
J-137	500	945.22	503.59	948.81	20	20.12	J-136	Victory Ave.
J-352	500	946.58	503.59	950.17	20	0.87	J-1296	Hamilton St.
J-2812	500	946.68	503.95	950.63	20	0.87	J-1296	Sandro Cir.
J-7424	500	948.56	503.04	951.6	20	0.87	J-1296	Lambert St.
J-2657	500	948.73	500	948.73	20	0.87	J-1296	Major Potter Rd.
J-4185	500	948.79	504.45	953.24	20	0.87	J-1296	Spring Valley Dr.
J-369	500	949.69	503.59	953.28	29.41	0	J-381	Lockwood St.
J-7671	500	949.88	503.04	952.92	20.01	16.12	J-7672	Amherst Ave.
J-2094	500	950.79	503.95	954.74	20.04	0.87	J-1296	Cowesett Green Rd.
J-7635	500	952.19	503.04	955.23	20	0.86	J-8222	Dawley St.
J-7312	500	952.75	503.04	955.79	20	7.26	J-8307	Sheri Dr.
J-7328	500	952.9	503.04	955.94	20	7.26	J-8307	Boston St.
J-2330	500	953.91	503.95	957.86	20	0.87	J-1296	Peaceful Ln.
J-154	500	954.84	503.59	958.43	20	22.5	J-166	Shortway Dr.
J-382	500	955	503.59	958.59	27.25	0	J-381	Cochran St.
J-780	500	955.17	503.59	958.76	20.01	0.87	J-1296	Centracchio St.
J-2263	500	955.21	503.95	959.16	20	21.41	J-2281	Stiness Dr.
J-7278	500	955.21	503.04	958.25	20.01	7.26	J-8307	Peppermint Ct.
J-7809	500	956.08	503.04	959.12	20	0.87	J-1296	Gadoury St.
J-5033	500	957.25	503.31	960.56	20.05	18.36	J-5028	Esther St.
J-2569	500	957.34	503.95	961.29	20.02	0.87	J-1296	Bay View Ave.
J-158	500	958.11	503.59	961.7	29.49	0	J-166	Shortway Dr.
J-4496	500	958.29	504.45	962.74	20.02	20.3	J-4497	Revolution St.
J-7259	500	958.77	503.04	961.81	20.01	7.26	J-8307	Colvintown Rd.
J-4288	500	959.8	504.45	964.25	20.01	25.1	J-4264	John Alden Rd.
J-6019	500	960.77	502.76	963.53	20	0.87	J-1296	Hope Furnace Rd.
J-2352	500	960.91	503.95	964.86	43.3	0.02	J-2358	Gauvin Dr.
J-7276	500	961.27	503.04	964.31	20.01	7.26	J-8307	Jasmine Ct.
J-348	500	961.99	503.59	965.58	20	0.87	J-1296	Coit Ave.
J-7599	500	964.07	503.04	967.11	20	27.36	J-7601	Seneca St.
J-4184	500	964.76	504.45	969.21	20	0.87	J-1296	Spring Valley Dr.
J-1272	500	965.05	500	965.05	20.01	0.87	J-1296	Hunters Reserve
J-4472	500	965.21	504.45	969.66	20.02	23.75	J-2502	Reynolds St.
J-7327	500	965.23	503.04	968.27	20	7.26	J-8307	Boston St.
J-5031	500	966.38	503.31	969.69	20	13.45	J-5028	Warren Ave.
J-609	500	969.06	503.59	972.65	20	0.87	J-1296	Curson St.
J-342	500	969.61	503.59	973.2	20	0.87	J-1296	Noxon St.
J-7314	500	969.71	503.04	972.75	20	7.26	J-8307	Sheri Dr.



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J-777	500	969.88	503.59	973.47	20.02	0.87	J-1296	Centracchio St.
J-2432	500	969.97	503.95	973.92	20	21.66	J-2508	Vancouver Ave.
J-2209	500	970.62	503.95	974.57	20.11	0.87	J-1296	Tanner Ave.
J-254	500	970.63	503.59	974.22	75.11	0	J-262	Tanglewood Dr.
J-2508	500	972.28	503.95	976.23	20	20.72	J-2281	Cedar St.
J-5030	500	972.89	503.31	976.2	20	10.94	J-5028	Benjamin St.
J-4183	500	974.15	504.45	978.6	20	0.87	J-1296	Spring Valley Dr.
J-7460	500	975.64	503.04	978.68	20	0.87	J-1296	Pilgrim Ave.
J-7244	500	976.2	503.04	979.24	20.01	7.26	J-8307	Watercress Ct.
J-345	500	976.38	503.59	979.97	20	0.87	J-1296	Coit Ave.
J-354	500	977.99	503.59	981.58	20	0.87	J-1296	Coit Ave.
J-1011	500	978.24	503.59	981.83	20.01	0.87	J-1296	Summit Ave.
J-7402	500	979.72	503.04	982.76	20	27.26	J-8246	Marion Ave.
J-668	500	980.51	503.59	984.1	20.04	0.87	J-1296	Flynn Ter.
J-7528	500	980.53	503.04	983.57	20	0.87	J-1296	Johnson Blvd.
J-372	500	982.03	503.59	985.62	20	0.87	J-1296	Deborah Ct.
J-7917	500	982.29	503.04	985.33	20	0.87	J-1296	Fones St.
J-7277	500	984.37	503.04	987.41	20.01	7.26	J-8307	Peppermint Ct.
J-1247	500	984.74	500	984.74	20	0.87	J-1296	Centerville Mills
J-667	500	984.94	503.59	988.53	20.04	0.87	J-1296	Fruit St.
J-665	500	985.4	503.59	988.99	20	0.87	J-1296	Spencer St.
J-1265	500	985.97	500	985.97	20.01	0.87	J-1296	Hunters Reserve
J-346	500	986.18	503.59	989.77	20	0.87	J-1296	Coit Ave.
J-7534	500	987.72	503.04	990.76	20	0.87	J-1296	Johnson Blvd.
J-347	500	988.72	503.59	992.31	20	0.87	J-1296	Tampa St.
J-469	500	989.02	503.59	992.61	20	0.87	J-1296	Laramie Ave.
J-7275	500	989.03	503.04	992.07	20.01	7.26	J-8307	Jasmine Ct.
J-2130	500	989.33	503.95	993.28	20	0.87	J-1296	Peacock Rd.
J-2097	500	990.01	503.95	993.96	20	0.87	J-1296	Hallmark Dr.
J-2129	500	992.73	503.95	996.68	20	0.87	J-1296	Verdant Ln.
J-177	500	992.75	503.59	996.34	20	14.85	J-178	Overhill Dr.
J-8031	500	993.32	503.04	996.36	20.01	0.87	J-1296	Windsor Park Dr.
J-7313	500	993.4	503.04	996.44	20	7.26	J-8307	Sheri Dr.
J-4434	500	993.97	504.45	998.42	20.01	24.08	J-2502	Virginia Ave.
J-4159	500	994.49	504.45	998.94	20.02	0.87	J-1296	Ayrault Rd.
J-7384	500	996.75	503.04	999.79	20	20	J-7385	Noella Ave.
J-953	500	997.05	503.59	1,000.64	20	0.87	J-1296	Campbell St.
J-8168	500	998.13	507.8	1,005.93	20	0.87	J-1296	Hombeam Rd.
J-2285	500	998.38	503.95	1,002.33	20	20.35	J-2286	Crestwood Rd.
J-1076	500	998.94	503.59	1,002.53	20.04	0.87	J-1296	Pike St.

## Appendix B

Available Fire Flow by Junction Node (1,000 gpm – 3,500 gpm)

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7279	500	1,001.28	503.04	1,004.32	20.02	7.26	J-8307
J-2136	500	1,002.84	503.95	1,006.79	20	0.87	J-1296
J-7226	500	1,003.77	503.04	1,006.81	20	7.26	J-8307
J-2128	500	1,003.78	503.95	1,007.73	20	0.87	J-1296
J-2318	500	1,004.80	503.95	1,008.75	20	0.87	J-1296
J-363	500	1,005.05	503.59	1,008.64	20	0.87	J-1296
J-8032	500	1,006.41	503.04	1,009.45	20.01	0.87	J-1296
J-2184	500	1,007.32	503.95	1,011.27	20	24.85	J-2508
J-383	500	1,008.04	503.59	1,011.63	31.37	0	J-381
J-7274	500	1,009.15	503.04	1,012.19	20.02	7.26	J-8307
J-3034	500	1,009.77	503.71	1,013.48	20	15.33	J-3038
J-4162	500	1,010.01	504.45	1,014.46	20.03	0.87	J-1296
J-2049	500	1,010.75	503.95	1,014.70	20	0.87	J-1296
J-2599	500	1,010.86	503.95	1,014.81	20	0.87	J-1296
J-228	500	1,012.05	503.59	1,015.64	20	0.87	J-1296
J-8030	500	1,013.92	503.04	1,016.96	20.01	0.87	J-1296
J-1245	500	1,015.54	500	1,015.54	20	0.87	J-1296
J-1246	500	1,015.98	500	1,015.98	20	0.87	J-1296
J-4181	500	1,016.47	504.45	1,020.92	20	0.87	J-1296
J-380	500	1,016.99	503.59	1,020.58	30.89	0	J-381
J-301	500	1,018.23	503.59	1,021.82	20	0.87	J-1296
J-7288	500	1,020.49	503.04	1,023.53	20.02	7.26	J-8307
J-569	500	1,020.62	503.59	1,024.21	20	0.87	J-1296
J-4144	500	1,021.19	504.45	1,025.64	20	0.87	J-1296
J-818	500	1,022.44	503.59	1,026.03	20	0.87	J-1296
J-2456	500	1,023.74	503.95	1,027.69	20	21.3	J-2508
J-1243	500	1,025.67	500	1,025.67	20	0.87	J-1296
J-7862	500	1,025.72	503.04	1,028.76	20	0.87	J-1296
J-502	500	1,028.01	503.59	1,031.60	20	0.87	J-1296
J-7943	500	1,028.91	503.04	1,031.95	20.01	0.87	J-1296
J-152	500	1,029.24	503.59	1,032.83	20	19.53	J-166
J-799	500	1,030.48	503.59	1,034.07	20	0.87	J-1296
J-7271	500	1,030.84	503.04	1,033.89	20.02	7.26	J-8307
J-7621	500	1,033.90	503.04	1,036.94	20	0.05	J-8222
J-7946	500	1,034.15	503.04	1,037.19	20.02	0.87	J-1296
J-2040	500	1,035.00	503.95	1,038.95	20	0.87	J-1296
J-2016	500	1,035.27	503.95	1,039.22	20.01	0.87	J-1296
J-7382	500	1,035.46	503.04	1,038.50	20	20.86	J-7394
J-7782	500	1,035.55	503.04	1,038.59	20	0.87	J-1296
J-4158	500	1,036.14	504.45	1,040.59	20.03	0.87	J-1296
J-7966	500	1,036.97	503.04	1,040.02	20.01	0.87	J-1296
J-2012	500	1,037.26	503.95	1,041.21	20	0.87	J-1296
J-7462	500	1,037.47	503.04	1,040.51	20	0.87	J-1296
J-167	500	1,037.88	503.59	1,041.47	20	10.52	J-166
J-1072	500	1,038.07	503.59	1,041.66	20	0.87	J-1296
J-390	500	1,039.14	503.59	1,042.73	30.1	0	J-381
J-2614	500	1,039.33	503.95	1,043.28	20	0.87	J-1296
J-2214	500	1,040.42	503.95	1,044.37	20.07	0.87	J-1296
J-376	500	1,041.92	503.59	1,045.51	20	0.1	J-381
J-379	500	1,042.38	503.59	1,045.97	26.63	0	J-381
J-378	500	1,042.69	503.59	1,046.28	28.39	0	J-381
J-377	500	1,042.71	503.59	1,046.30	30.7	0	J-381
J-7620	500	1,042.85	503.04	1,045.89	28.6	0	J-8222
J-5107	500	1,043.26	503.31	1,046.57	20	14.73	J-166
J-7618	500	1,043.60	503.04	1,046.64	33.21	0	J-8222
J-7311	500	1,044.28	503.04	1,047.32	20	7.26	J-8307
J-776	500	1,044.38	503.59	1,047.97	20.02	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-5032	500	1,044.70	503.31	1,048.01	20	10.74	J-5028
J-2011	500	1,045.28	503.95	1,049.23	20.01	0.87	J-1296
J-607	500	1,046.34	503.59	1,049.93	20	0.87	J-1296
J-7606	500	1,046.56	503.04	1,049.60	20.01	24.5	J-8073
J-7595	500	1,047.14	503.04	1,050.18	20.01	40.88	J-7601
J-5108	500	1,047.15	503.31	1,050.46	20	14.55	J-166
J-4323	500	1,049.68	504.45	1,054.13	20.02	24.75	J-2508
J-2281	500	1,051.79	503.95	1,055.74	20	20.01	J-2508
J-374	500	1,052.08	503.59	1,055.67	25.26	0	J-381
J-375	500	1,052.39	503.59	1,055.98	21.15	0	J-381
J-373	500	1,052.61	503.59	1,056.20	28.89	0	J-381
J-7412	500	1,053.00	503.04	1,056.04	20	0.79	J-7354
J-344	500	1,054.74	503.59	1,058.33	20	0.87	J-1296
J-824	500	1,055.70	503.59	1,059.29	20	0.87	J-1296
J-361	500	1,056.28	503.59	1,059.87	20	0.87	J-1296
J-1151	500	1,057.10	503.59	1,060.69	20	0.87	J-1296
J-7269	500	1,057.18	503.04	1,060.22	20	7.25	J-8307
J-401	500	1,058.02	503.59	1,061.61	28.25	0	J-381
J-7791	500	1,058.99	503.04	1,062.03	20	0.87	J-1296
J-8247	500	1,060.04	500	1,060.04	20	26.5	J-7386
J-7401	500	1,062.78	503.04	1,065.82	20	18.7	J-8246
J-529	500	1,064.19	503.59	1,067.78	20	0.87	J-1296
J-2248	500	1,064.92	503.95	1,068.87	20	20.42	J-2281
J-4161	500	1,065.48	504.45	1,069.93	20.04	0.87	J-1296
J-7272	500	1,066.55	503.04	1,069.59	20	7.25	J-8307
J-3037	500	1,066.58	503.71	1,070.29	23.36	0	J-3038
J-3039	500	1,066.58	503.71	1,070.29	22.15	0	J-3038
J-2611	500	1,066.70	503.95	1,070.65	20	0.87	J-1296
J-7287	500	1,068.63	503.04	1,071.67	20	7.25	J-8307
J-364	500	1,068.90	503.59	1,072.49	20	0.87	J-1296
J-4572	500	1,069.08	504.45	1,073.53	20.01	0.87	J-1296
J-660	500	1,069.38	503.59	1,072.97	20.02	0.87	J-1296
J-1139	500	1,069.58	503.59	1,073.17	34.49	0	J-381
J-2282	500	1,069.91	503.95	1,073.86	20	20.14	J-2281
J-7639	500	1,070.34	503.04	1,073.38	20	0.43	J-8222
J-8134	500	1,071.16	503.04	1,074.20	20.01	7.25	J-8307
J-5093	500	1,071.86	503.31	1,075.17	20.01	33.03	J-5092
J-7281	500	1,072.21	503.04	1,075.25	20	7.25	J-8307
J-4407	500	1,073.07	504.45	1,077.52	20.01	25.23	J-2508
J-601	500	1,073.15	503.59	1,076.74	20	0.87	J-1296
J-5090	500	1,074.49	503.31	1,077.80	20.01	23.04	J-5091
J-7268	500	1,074.62	503.04	1,077.66	20	7.25	J-8307
J-1244	500	1,074.77	500	1,074.77	20	0.87	J-1296
J-362	500	1,074.93	503.59	1,078.52	20	0.87	J-1296
J-653	500	1,075.02	503.59	1,078.61	20.01	0.87	J-1296
J-1261	500	1,075.37	500	1,075.37	20.01	0.87	J-1296
J-1150	500	1,075.78	503.59	1,079.37	20	0.87	J-1296
J-5099	500	1,075.90	503.31	1,079.21	20	13.14	J-166
J-631	500	1,076.11	503.59	1,079.70	20	0.87	J-1296
J-2014	500	1,077.54	503.95	1,081.49	20.01	0.87	J-1296
J-492	500	1,078.11	503.59	1,081.70	20	0.87	J-1296
J-528	500	1,078.13	503.59	1,081.72	20	0.87	J-1296
J-2103	500	1,078.54	503.95	1,082.49	20	0.87	J-1296
J-8098	500	1,078.86	503.04	1,081.90	20	0.87	J-1296
J-7427	500	1,079.08	503.04	1,082.12	20.01	0.87	J-1296
J-1236	500	1,079.46	500	1,079.46	20	0.87	J-1296
J-4103	500	1,079.60	504.45	1,084.05	20.01	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2211	500	1,080.14	503.95	1,084.09	20.07	0.87	J-1296
J-2454	500	1,080.21	503.95	1,084.16	20	17.65	J-2455
J-6032	500	1,080.40	502.76	1,083.16	20	0.87	J-1296
J-5025	500	1,080.46	503.31	1,083.77	20	9.17	J-5028
J-359	500	1,080.99	503.59	1,084.58	20	0.87	J-1296
J-4324	500	1,081.89	504.45	1,086.34	20.02	21.54	J-4323
J-2313	500	1,082.94	503.95	1,086.89	20.02	20.98	J-2508
J-779	500	1,084.53	503.59	1,088.12	20.02	0.87	J-1296
J-2292	500	1,084.69	503.95	1,088.64	20	20.38	J-2281
J-73	500	1,084.93	503.59	1,088.52	20	6.49	J-8319
J-7112	500	1,085.53	503.04	1,088.57	20	31.91	J-3038
J-7380	500	1,085.93	503.04	1,088.97	20	26.41	J-7378
J-3022	500	1,087.39	503.71	1,091.10	20	22.64	J-3023
J-915	500	1,088.35	503.59	1,091.94	20.36	0	J-886
J-7283	500	1,089.68	503.04	1,092.72	20	7.25	J-8307
J-343	500	1,089.69	503.59	1,093.28	20	0.87	J-1296
J-3027	500	1,090.58	503.71	1,094.29	20.03	28.5	J-3038
J-773	500	1,091.29	503.59	1,094.88	20.01	0.87	J-1296
J-1259	500	1,093.25	500	1,093.25	20.01	0.87	J-1296
J-104	500	1,094.26	503.59	1,097.85	31.83	0	J-381
J-302	500	1,094.92	503.59	1,098.51	23.22	0	J-307
J-356	500	1,094.97	503.59	1,098.56	20	0.87	J-1296
J-4322	500	1,095.21	504.45	1,099.67	20.02	20.02	J-4323
J-2117	500	1,095.29	503.95	1,099.24	20	0.87	J-1296
J-4160	500	1,096.58	504.45	1,101.03	20.05	0.87	J-1296
J-4405	500	1,097.93	504.45	1,102.38	20.02	25.2	J-2508
J-7227	500	1,100.06	503.04	1,103.10	20.01	7.25	J-8307
J-2113	500	1,100.11	503.95	1,104.06	20	0.87	J-1296
J-746	500	1,100.33	503.59	1,103.92	20.02	0.87	J-1296
J-2114	500	1,100.60	503.95	1,104.55	20	0.87	J-1296
J-497	500	1,102.46	503.59	1,106.05	20	0.87	J-1296
J-7605	500	1,102.60	503.04	1,105.64	20.01	19.57	J-8073
J-7386	500	1,102.89	503.04	1,105.93	20	22.58	J-7387
J-1142	500	1,104.01	503.59	1,107.60	20.01	0.87	J-1296
J-7622	500	1,104.50	503.04	1,107.54	36.09	0	J-8222
J-7623	500	1,104.74	503.04	1,107.78	34.18	0	J-8222
J-821	500	1,104.76	503.59	1,108.35	20.01	0.87	J-1296
J-358	500	1,106.78	503.59	1,110.37	20	0.87	J-1296
J-2350	500	1,106.91	503.95	1,110.86	45.47	0.02	J-2358
J-370	500	1,107.20	503.59	1,110.79	32.74	0	J-381
J-2351	500	1,107.26	503.95	1,111.21	22.17	0.01	J-2358
J-5100	500	1,109.46	503.31	1,112.77	20	11.46	J-166
J-7624	500	1,109.81	503.04	1,112.85	36.04	0	J-8222
J-743	500	1,109.91	503.59	1,113.50	20	0.87	J-1296
J-749	500	1,110.19	503.59	1,113.78	20.01	0.87	J-1296
J-8028	500	1,112.55	503.04	1,115.59	20.01	0.87	J-1296
J-139	500	1,113.41	503.59	1,117.00	20	29.74	J-166
J-2588	500	1,113.58	503.95	1,117.53	20.01	0.87	J-1296
J-2096	500	1,113.61	503.95	1,117.56	20	0.87	J-1296
J-2213	500	1,115.34	503.95	1,119.29	20.08	0.87	J-1296
J-7411	500	1,115.59	503.04	1,118.63	21.82	0	J-7354
J-7284	500	1,116.05	503.04	1,119.09	20	7.25	J-8307
J-3023	500	1,116.09	503.71	1,119.80	20	22.16	J-3024
J-5101	500	1,116.30	503.31	1,119.61	20	11.12	J-166
J-2038	500	1,116.65	503.95	1,120.60	20.01	0.87	J-1296
J-993	500	1,116.88	503.59	1,120.47	20.02	0.87	J-1296
J-2573	500	1,117.20	503.95	1,121.15	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-8165	500	1,117.75	507.8	1,125.55	20	0.87	J-1296
J-2467	500	1,118.57	503.95	1,122.52	20.05	0.87	J-1296
J-2102	500	1,118.89	503.95	1,122.84	20.03	0.87	J-1296
J-5106	500	1,119.72	503.31	1,123.03	20	10.95	J-166
J-4373	500	1,119.93	504.45	1,124.38	20.01	24.7	J-2502
J-7766	500	1,120.53	503.04	1,123.57	20	0.87	J-1296
J-7625	500	1,120.55	503.04	1,123.59	35.94	0	J-8222
J-2122	500	1,120.90	503.95	1,124.85	20	0.87	J-1296
J-912	500	1,121.56	503.59	1,125.15	20	0.87	J-1296
J-4480	500	1,121.94	504.45	1,126.39	20.03	23.25	J-2502
J-2039	500	1,123.16	503.95	1,127.11	20.01	0.87	J-1296
J-8072	500	1,124.52	503.04	1,127.56	38.71	0	J-8222
J-7628	500	1,124.79	503.04	1,127.83	29.24	0	J-8222
J-7629	500	1,124.80	503.04	1,127.84	22.28	0	J-8222
J-819	500	1,124.95	503.59	1,128.54	20.01	0.87	J-1296
J-7627	500	1,125.00	503.04	1,128.04	39.33	0	J-8222
J-7306	500	1,125.04	503.04	1,128.08	20.01	7.25	J-8307
J-2311	500	1,126.91	503.95	1,130.86	20.03	20.57	J-2508
J-7257	500	1,127.67	503.04	1,130.71	20	7.25	J-8307
J-7630	500	1,127.75	503.04	1,130.79	41.29	0	J-8222
J-2010	500	1,128.40	503.95	1,132.35	20.01	0.87	J-1296
J-2473	500	1,128.95	503.95	1,132.90	20.06	0.87	J-1296
J-820	500	1,129.73	503.59	1,133.32	20.01	0.87	J-1296
J-7631	500	1,129.96	503.04	1,133.00	40.89	0	J-8222
J-7387	500	1,130.36	503.04	1,133.40	20	20	J-7386
J-7632	500	1,130.45	503.04	1,133.49	42.88	0	J-8222
J-1262	500	1,130.88	500	1,130.88	20.01	0.87	J-1296
J-7633	500	1,131.14	503.04	1,134.18	34.81	0	J-8222
J-4479	500	1,131.46	504.45	1,135.91	20.03	23.27	J-2502
J-2195	500	1,132.96	503.95	1,136.91	20.04	0.87	J-1296
J-190	500	1,134.86	503.59	1,138.45	20.02	0.87	J-1296
J-7286	500	1,135.10	503.04	1,138.14	20	7.25	J-8307
J-7078	500	1,135.54	503.04	1,138.58	20	31.67	J-3038
J-4163	500	1,137.08	504.45	1,141.53	20.03	0.87	J-1296
J-150	500	1,137.61	503.59	1,141.20	20	14.93	J-166
J-1074	500	1,138.01	503.59	1,141.60	20.01	0.87	J-1296
J-7285	500	1,138.04	503.04	1,141.08	20	7.25	J-8307
J-7626	500	1,138.60	503.04	1,141.64	42.29	0	J-8222
J-1081	500	1,138.72	503.59	1,142.31	20.01	0.87	J-1296
J-662	500	1,138.80	503.59	1,142.39	20	0.87	J-1296
J-2006	500	1,140.22	503.95	1,144.17	20.01	0.87	J-1296
J-2325	500	1,141.68	503.95	1,145.63	20	0.87	J-1296
J-5102	500	1,141.92	503.31	1,145.23	20	9.81	J-166
J-1260	500	1,142.54	500	1,142.54	20.01	0.87	J-1296
J-156	500	1,142.54	503.59	1,146.13	28.21	0	J-166
J-2425	500	1,144.91	503.95	1,148.86	20	20.48	J-2281
J-7598	500	1,145.53	503.04	1,148.57	20.01	20.01	J-7601
J-663	500	1,145.95	503.59	1,149.54	20	0.87	J-1296
J-6008	500	1,147.79	502.76	1,150.55	20	0.39	J-6004
J-4303	500	1,149.64	504.45	1,154.09	20.02	24.48	J-2502
J-650	500	1,150.29	503.59	1,153.88	20	0.87	J-1296
J-175	500	1,150.54	503.59	1,154.13	20	27.81	J-166
J-2140	500	1,150.78	503.95	1,154.73	20.01	0.87	J-1296
J-4182	500	1,150.87	504.45	1,155.32	20	0.87	J-1296
J-7071	500	1,152.16	503.04	1,155.20	20	27.52	J-7070
J-8035	500	1,152.42	503.04	1,155.46	20.01	0.87	J-1296
J-4632	500	1,152.55	500	1,152.55	27.27	0	J-4641

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-1073	500	1,152.93	503.59	1,156.52	20.01	0.87	J-1296
J-1168	500	1,154.45	504.08	1,158.53	20	0.87	J-1296
J-2610	500	1,154.66	503.95	1,158.61	20.03	0.87	J-1296
J-853	500	1,156.32	503.59	1,159.91	20	0.87	J-1296
J-1008	500	1,156.95	503.59	1,160.54	20.01	0.87	J-1296
J-5103	500	1,157.01	503.31	1,160.32	20	9.03	J-166
J-2116	500	1,159.66	503.95	1,163.61	20	0.87	J-1296
J-2555	500	1,163.98	503.95	1,167.93	20	0.87	J-1296
J-7636	500	1,164.06	503.04	1,167.10	50.76	0	J-8222
J-7378	500	1,166.13	503.04	1,169.17	20	21.68	J-7380
J-7243	500	1,167.07	503.04	1,170.11	20.02	7.25	J-8307
J-5060	500	1,167.09	503.31	1,170.40	20	17.42	J-5082
J-4406	500	1,168.79	504.45	1,173.24	20.02	21.32	J-4407
J-195	500	1,169.23	503.59	1,172.82	20	0.87	J-1296
J-7590	500	1,169.51	503.04	1,172.55	30.38	0	J-8222
J-4065	500	1,172.09	504.45	1,176.54	20	0.87	J-1296
J-2366	500	1,173.45	503.95	1,177.40	20	0.87	J-1296
J-5118	500	1,173.81	503.31	1,177.12	22.5	0	J-5119
J-189	500	1,174.13	503.59	1,177.72	20.03	0.87	J-1296
J-2037	500	1,175.03	503.95	1,178.98	20.01	0.87	J-1296
J-7655	500	1,176.00	503.04	1,179.04	20	32.56	J-7657
J-1235	500	1,176.52	500	1,176.52	20	0.87	J-1296
J-138	500	1,177.13	503.59	1,180.72	20	17.51	J-137
J-1234	500	1,177.31	500	1,177.31	20	0.87	J-1296
J-2083	500	1,178.72	503.95	1,182.67	20.03	0.87	J-1296
J-4456	500	1,178.76	504.45	1,183.21	20	23.03	J-2502
J-7484	500	1,178.88	503.04	1,181.92	20	0.87	J-1296
J-7300	500	1,180.89	503.04	1,183.93	20.01	7.24	J-8307
J-7242	500	1,180.96	503.04	1,184.00	20.03	7.24	J-8307
J-7921	500	1,181.58	503.04	1,184.62	20.01	0.87	J-1296
J-7225	500	1,182.65	503.04	1,185.69	20.01	7.24	J-8307
J-144	500	1,182.83	503.59	1,186.42	20	27.4	J-166
J-5098	500	1,182.89	503.31	1,186.20	20	7.67	J-166
J-468	500	1,183.70	503.59	1,187.29	20	0.87	J-1296
J-2062	500	1,183.97	503.95	1,187.92	20	0.87	J-1296
J-509	500	1,184.02	503.59	1,187.61	20	0.87	J-1296
J-775	500	1,184.59	503.59	1,188.18	20	0.87	J-1296
J-7299	500	1,187.03	503.04	1,190.07	20.01	7.24	J-8307
J-35	500	1,188.36	503.59	1,191.95	20	7.38	J-166
J-7282	500	1,188.77	503.04	1,191.81	20	7.24	J-8307
J-2421	500	1,189.04	503.95	1,192.99	20	20.17	J-2281
J-4178	500	1,190.24	504.45	1,194.69	20	0.87	J-1296
J-7217	500	1,190.67	503.04	1,193.71	20.01	7.24	J-8307
J-2080	500	1,190.77	503.95	1,194.72	20.03	0.87	J-1296
J-224	500	1,190.85	503.59	1,194.44	20.01	0.87	J-1296
J-911	500	1,190.93	503.59	1,194.52	32.87	0	J-907
J-737	500	1,191.19	503.59	1,194.78	20	0.87	J-1296
J-4571	500	1,191.94	504.45	1,196.39	20.01	0.87	J-1296
J-2656	500	1,192.22	500	1,192.22	20	0.87	J-1296
J-7383	500	1,192.69	503.04	1,195.73	20	16.86	J-7380
J-7270	500	1,193.47	503.04	1,196.51	20	7.24	J-8307
J-7863	500	1,193.85	503.04	1,196.89	20	0.87	J-1296
J-7637	500	1,195.18	503.04	1,198.22	57.91	0	J-8222
J-2329	500	1,195.49	503.95	1,199.44	20	0.87	J-1296
J-758	500	1,196.28	503.59	1,199.87	20.02	0.87	J-1296
J-2124	500	1,197.17	503.95	1,201.12	20	0.87	J-1296
J-2086	500	1,197.83	503.95	1,201.78	20.02	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4248	500	1,198.10	504.45	1,202.55	20.02	25.19	J-2508
J-834	500	1,198.47	503.59	1,202.06	20	0.87	J-1296
J-7613	500	1,198.77	503.04	1,201.81	20.01	36.74	J-7612
J-2095	500	1,200.27	503.95	1,204.22	20.03	0.87	J-1296
J-157	500	1,201.11	503.59	1,204.70	23.87	0	J-166
J-2525	500	1,202.38	503.95	1,206.33	20	19.89	J-2281
J-2293	500	1,202.50	503.95	1,206.45	20	19.44	J-2281
J-3013	500	1,202.99	503.71	1,206.70	20	29.63	J-3038
J-2608	500	1,204.36	503.95	1,208.31	20.04	0.87	J-1296
J-7241	500	1,204.54	503.04	1,207.58	20	7.24	J-8307
J-7376	500	1,205.47	503.04	1,208.51	20	21.12	J-7378
J-2439	500	1,207.63	503.95	1,211.58	20	20.03	J-2281
J-7324	500	1,207.78	503.04	1,210.82	20.01	7.24	J-8307
J-8033	500	1,208.39	503.04	1,211.43	20	0.87	J-1296
J-843	500	1,209.73	503.59	1,213.32	20	0.87	J-1296
J-371	500	1,210.01	503.59	1,213.60	31.8	0	J-381
J-4164	500	1,210.83	504.45	1,215.29	20.05	0.87	J-1296
J-7258	500	1,210.88	503.04	1,213.92	20	7.24	J-8307
J-1167	500	1,211.04	504.08	1,215.12	20	0.87	J-1296
J-7310	500	1,212.41	503.04	1,215.45	20.01	7.24	J-8307
J-7638	500	1,214.09	503.04	1,217.13	57.8	0	J-8222
J-155	500	1,214.88	503.59	1,218.47	23.45	0	J-166
J-6030	500	1,216.10	502.76	1,218.86	20	0.87	J-1296
J-82	500	1,216.10	503.59	1,219.69	20	0.87	J-1296
J-5104	500	1,217.24	503.31	1,220.55	20	5.84	J-166
J-1174	500	1,218.23	500	1,218.23	20	0.87	J-1296
J-5109	500	1,218.98	503.31	1,222.29	20	5.75	J-166
J-2268	500	1,219.73	503.95	1,223.68	20.04	19.66	J-2281
J-416	500	1,220.44	503.59	1,224.03	25.53	0.01	J-381
J-183	500	1,220.92	503.59	1,224.51	20	26.01	J-166
J-7722	500	1,224.15	503.04	1,227.19	20.02	7.24	J-8307
J-7005	500	1,225.79	503.04	1,228.83	20	22.16	J-7007
J-602	500	1,225.91	503.59	1,229.50	20	0.87	J-1296
J-965	500	1,226.68	503.59	1,230.27	57.73	0	J-8222
J-697	500	1,228.37	503.59	1,231.96	20.01	0.87	J-1296
J-7053	500	1,230.59	503.04	1,233.63	20	25.05	J-7052
J-594	500	1,231.00	503.59	1,234.59	20.05	0.87	J-1296
J-6031	500	1,232.20	502.76	1,234.96	20	0.87	J-1296
J-4146	500	1,232.27	504.45	1,236.72	20	0.87	J-1296
J-7658	500	1,232.30	503.04	1,235.34	20	22.16	J-7657
J-2438	500	1,232.58	503.95	1,236.53	20	19.86	J-2281
J-1233	500	1,233.03	500	1,233.03	20	0.87	J-1296
J-914	500	1,233.42	503.59	1,237.01	32.74	0	J-907
J-415	500	1,233.87	503.59	1,237.46	30.6	0	J-381
J-330	500	1,234.84	503.59	1,238.43	20	0.87	J-1296
J-2216	500	1,234.94	503.95	1,238.89	20	0.87	J-1296
J-414	500	1,235.30	503.59	1,238.89	32.25	0	J-381
J-5105	500	1,238.11	503.31	1,241.42	20	4.71	J-166
J-7705	500	1,238.33	503.04	1,241.37	20	0.87	J-1296
J-2009	500	1,238.52	503.95	1,242.47	20.02	0.87	J-1296
J-4417	500	1,238.59	504.45	1,243.04	20.02	24.27	J-2502
J-620	500	1,241.49	503.59	1,245.08	20	0.87	J-1296
J-194	500	1,242.01	503.59	1,245.60	49.33	0.01	J-196
J-188	500	1,242.76	503.59	1,246.35	20.05	0.87	J-1296
J-7428	500	1,243.23	503.04	1,246.27	20	0.69	J-8222
J-4264	500	1,243.48	504.45	1,247.93	20	25.2	J-2508
J-187	500	1,243.60	503.59	1,247.19	20.05	0.87	J-1296



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2452	500	1,246.87	503.95	1,250.82	20	16.75	J-2453
J-3035	500	1,247.21	503.71	1,250.92	28.99	0	J-3038
J-963	500	1,247.22	503.59	1,250.81	58.49	0	J-8222
J-7185	500	1,247.64	503.04	1,250.68	20	7.24	J-8307
J-674	500	1,248.15	503.59	1,251.74	20	0.87	J-1296
J-4180	500	1,248.27	504.45	1,252.72	20	0.87	J-1296
J-2154	500	1,249.32	503.95	1,253.27	25.55	0.02	J-2163
J-5092	500	1,249.32	503.31	1,252.63	20.02	20.02	J-5093
J-7967	500	1,249.52	503.04	1,252.56	20.03	0.87	J-1296
J-7070	500	1,249.64	503.04	1,252.68	20	20	J-7071
J-472	500	1,250.06	503.59	1,253.65	20	0.87	J-1296
J-142	500	1,251.74	503.59	1,255.33	20	24.25	J-166
J-2061	500	1,251.77	503.95	1,255.72	20	0.87	J-1296
J-2156	500	1,252.21	503.95	1,256.16	22.36	0	J-2163
J-478	500	1,252.22	503.59	1,255.81	20	0.87	J-1296
J-1163	500	1,253.12	530.76	1,283.88	20.06	0.87	J-1296
J-2249	500	1,253.21	503.95	1,257.16	20	18.89	J-2281
J-2149	500	1,254.39	503.95	1,258.34	22.7	0	J-2163
J-4179	500	1,254.74	504.45	1,259.19	20	0.87	J-1296
J-7273	500	1,255.12	503.04	1,258.16	20	7.24	J-8307
J-7474	500	1,256.16	503.04	1,259.20	30.27	0	J-8222
J-2159	500	1,256.47	503.95	1,260.42	25.3	0.02	J-2163
J-2158	500	1,256.52	503.95	1,260.47	33.38	0.02	J-2163
J-2152	500	1,256.54	503.95	1,260.49	20.71	0	J-2163
J-2507	500	1,256.55	503.95	1,260.50	20	18.65	J-2508
J-8078	500	1,256.58	503.04	1,259.62	31.57	0	J-8222
J-2166	500	1,256.81	503.95	1,260.76	20	0.87	J-1296
J-8034	500	1,256.83	503.04	1,259.87	20	0.87	J-1296
J-772	500	1,257.80	503.59	1,261.39	20.01	0.87	J-1296
J-7971	500	1,258.03	503.04	1,261.07	20	6.49	J-8319
J-8036	500	1,259.71	503.04	1,262.75	20	0.87	J-1296
J-7233	500	1,260.43	503.04	1,263.47	20.01	7.24	J-8307
J-2161	500	1,262.08	503.95	1,266.03	30.56	0.02	J-2163
J-5059	500	1,262.42	503.31	1,265.73	20	10.58	J-5082
J-2160	500	1,262.81	503.95	1,266.76	40.74	0	J-2163
J-7657	500	1,262.81	503.04	1,265.85	20	22.98	J-7658
J-2164	500	1,262.86	503.95	1,266.81	33.58	0.02	J-2163
J-193	500	1,263.46	503.59	1,267.05	20	0.87	J-1296
J-2125	500	1,263.50	503.95	1,267.45	20.01	0.87	J-1296
J-2317	500	1,263.98	503.95	1,267.93	20	0.87	J-1296
J-1171	500	1,264.94	502.56	1,267.50	20	0.87	J-1296
J-2165	500	1,265.39	503.95	1,269.34	27.6	0.02	J-2163
J-1279	500	1,266.32	500	1,266.32	21.29	0.01	J-1268
J-7721	500	1,266.35	503.04	1,269.39	20.02	7.24	J-8307
J-1257	500	1,266.52	500	1,266.52	21.63	0	J-1268
J-1258	500	1,266.52	500	1,266.52	24.36	0	J-1268
J-1274	500	1,266.52	500	1,266.52	23.02	0	J-1268
J-1275	500	1,266.53	500	1,266.53	22.92	0	J-1268
J-1232	500	1,266.56	500	1,266.56	20	0.87	J-1296
J-7304	500	1,266.93	503.04	1,269.97	20.03	7.24	J-8307
J-2431	500	1,267.21	503.95	1,271.16	20	15.24	J-2432
J-7377	500	1,267.88	503.04	1,270.92	20	19.13	J-7382
J-2108	500	1,268.42	503.95	1,272.37	20	0.87	J-1296
J-503	500	1,269.02	503.59	1,272.61	20	0.87	J-1296
J-2151	500	1,271.41	503.95	1,275.36	42.83	0	J-2163
J-7238	500	1,271.42	503.04	1,274.46	20.02	7.24	J-8307
J-2148	500	1,272.41	503.95	1,276.36	29.2	0.02	J-2163

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2189	500	1,272.54	503.95	1,276.49	20.01	0.01	J-2163
J-1231	500	1,273.01	500	1,273.01	20	0.87	J-1296
J-2167	500	1,273.50	503.95	1,277.45	20	0.87	J-1296
J-500	500	1,274.74	503.59	1,278.33	20.01	0.87	J-1296
J-1230	500	1,275.07	500	1,275.07	20	0.87	J-1296
J-2052	500	1,275.74	503.95	1,279.69	20.01	0.87	J-1296
J-1229	500	1,276.33	500	1,276.33	20	0.87	J-1296
J-2081	500	1,276.93	503.95	1,280.88	20.01	0.87	J-1296
J-7073	500	1,278.55	503.04	1,281.59	20	19.08	J-7075
J-7733	500	1,279.55	503.04	1,282.59	20	0.87	J-1296
J-7911	500	1,281.28	503.04	1,284.32	20	0.87	J-1296
J-6010	500	1,281.41	502.76	1,284.17	29.62	0	J-6004
J-7794	500	1,281.67	503.04	1,284.71	20	0.87	J-1296
J-2030	500	1,282.33	503.95	1,286.28	20.05	0.87	J-1296
J-4217	500	1,284.49	504.45	1,288.94	20	24.77	J-2508
J-2428	500	1,285.56	503.95	1,289.51	20	19.47	J-2281
J-2126	500	1,286.75	503.95	1,290.70	20	0.6	J-2163
J-2150	500	1,287.57	503.95	1,291.52	43.83	0.01	J-2163
J-6011	500	1,288.54	502.76	1,291.30	24.49	0	J-6004
J-2041	500	1,288.98	503.95	1,292.93	20.01	0.87	J-1296
J-391	500	1,289.14	503.59	1,292.73	36.2	0	J-381
J-2463	500	1,289.37	503.95	1,293.32	20.04	0.87	J-1296
J-1170	500	1,289.52	502.56	1,292.08	20	0.87	J-1296
J-7659	500	1,290.01	503.04	1,293.05	20	20.39	J-7657
J-2430	500	1,290.07	503.95	1,294.02	20	19.44	J-2281
J-8074	500	1,290.25	503.04	1,293.29	20	0.87	J-1296
J-7318	500	1,291.28	503.04	1,294.32	20.02	7.24	J-8307
J-7265	500	1,291.34	503.04	1,294.38	20.02	7.24	J-8307
J-3021	500	1,291.62	503.71	1,295.33	20	15.24	J-3022
J-2115	500	1,292.48	503.95	1,296.43	20	0.87	J-1296
J-8166	500	1,293.84	507.8	1,301.64	20	0.87	J-1296
J-7323	500	1,295.20	503.04	1,298.24	20.02	7.24	J-8307
J-4351	500	1,296.38	504.45	1,300.83	20.02	24.06	J-2502
J-2424	500	1,296.63	503.95	1,300.58	20	19.39	J-2281
J-2497	500	1,296.97	503.95	1,300.92	20	0.87	J-1296
J-7663	500	1,297.04	503.04	1,300.08	20	19.41	J-7657
J-2042	500	1,297.33	503.95	1,301.28	20.01	0.87	J-1296
J-192	500	1,299.38	503.59	1,302.97	53.68	0.03	J-196
J-8077	500	1,299.55	503.04	1,302.59	31.53	0	J-8222
J-7475	500	1,299.67	503.04	1,302.71	30.32	0	J-8222
J-3018	500	1,300.16	503.71	1,303.87	20	28.82	J-3038
J-7612	500	1,302.65	503.04	1,305.69	20.01	28.79	J-7613
J-1095	500	1,304.71	503.59	1,308.30	20	0.87	J-1296
J-2051	500	1,304.82	503.95	1,308.77	20.01	0.87	J-1296
J-7072	500	1,306.75	503.04	1,309.79	20	16.97	J-7075
J-7736	500	1,309.28	503.04	1,312.32	20	0.87	J-1296
J-7039	500	1,313.85	503.04	1,316.89	20	30.04	J-3038
J-202	500	1,314.58	503.59	1,318.17	44.53	0.01	J-220
J-2522	500	1,314.82	503.95	1,318.77	20	19.03	J-2281
J-7158	500	1,315.24	503.04	1,318.28	20.01	7.23	J-8307
J-1256	500	1,315.28	500	1,315.28	25.96	0	J-1268
J-7374	500	1,315.36	503.04	1,318.40	20	16.71	J-7376
J-7231	500	1,315.49	503.04	1,318.53	20.02	7.23	J-8307
J-2516	500	1,316.38	503.95	1,320.33	20	18.99	J-2281
J-2365	500	1,316.93	503.95	1,320.88	20	0.87	J-1296
J-7379	500	1,317.97	503.04	1,321.01	20	10.5	J-7380
J-7396	500	1,317.98	503.04	1,321.02	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4537	500	1,318.42	504.45	1,322.87	20	22.63	J-2502
J-2426	500	1,318.81	503.95	1,322.76	20	19.23	J-2281
J-7735	500	1,319.15	503.04	1,322.19	20	0.87	J-1296
J-666	500	1,320.26	503.59	1,323.85	20	0.87	J-1296
J-2520	500	1,321.54	503.95	1,325.49	20	18.98	J-2281
J-1041	500	1,321.84	503.59	1,325.43	20	0.87	J-1296
J-998	500	1,323.50	503.59	1,327.09	33.52	0	J-1000
J-2046	500	1,323.62	503.95	1,327.57	20.01	0.87	J-1296
J-1169	500	1,324.47	502.56	1,327.03	20	0.87	J-1296
J-7945	500	1,325.62	503.04	1,328.66	20	0.87	J-1296
J-7375	500	1,325.78	503.04	1,328.82	20	13.33	J-7378
J-7079	500	1,326.16	503.04	1,329.20	20	13.51	J-7080
J-7305	500	1,326.83	503.04	1,329.87	20.03	7.23	J-8307
J-7294	500	1,329.33	503.04	1,332.37	20	7.23	J-8307
J-2429	500	1,329.52	503.95	1,333.47	20	19.15	J-2281
J-7198	500	1,329.89	503.04	1,332.93	20.01	7.23	J-8307
J-7414	500	1,331.52	503.04	1,334.56	31.08	0	J-8222
J-2101	500	1,331.76	503.95	1,335.71	20.03	0.87	J-1296
J-7326	500	1,332.60	503.04	1,335.64	20.02	7.23	J-8307
J-7298	500	1,333.69	503.04	1,336.73	20.02	7.23	J-8307
J-2427	500	1,334.96	503.95	1,338.91	20	19.11	J-2281
J-2106	500	1,335.39	503.95	1,339.34	20	0.87	J-1296
J-7704	500	1,335.68	503.04	1,338.72	20	0.87	J-1296
J-88	500	1,336.82	503.59	1,340.41	20	6.49	J-8319
J-8167	500	1,337.72	507.8	1,345.52	20	0.87	J-1296
J-485	500	1,337.83	503.59	1,341.42	20.01	0.87	J-1296
J-2437	500	1,337.88	503.95	1,341.83	20	14.28	J-2432
J-583	500	1,338.01	503.59	1,341.60	20	0.87	J-1296
J-7104	500	1,341.40	503.04	1,344.44	20.01	21.87	J-7102
J-4570	500	1,343.42	504.45	1,347.87	20	0.87	J-1296
J-7589	500	1,344.24	503.04	1,347.28	30.97	0	J-8222
J-2050	500	1,344.33	503.95	1,348.28	20.01	0.87	J-1296
J-7726	500	1,344.54	503.04	1,347.58	20	6.88	J-8058
J-2496	500	1,344.68	503.95	1,348.64	20	0.87	J-1296
J-815	500	1,344.86	503.59	1,348.45	38.17	0	J-816
J-648	500	1,345.20	503.59	1,348.79	20.01	0.87	J-1296
J-7077	500	1,345.36	503.04	1,348.40	20	18.7	J-7080
J-7457	500	1,345.80	503.04	1,348.84	30.85	0	J-8222
J-481	500	1,348.47	503.59	1,352.06	20.01	0.87	J-1296
J-4664	500	1,349.26	509.84	1,359.10	20	6.49	J-8319
J-2221	500	1,349.42	503.95	1,353.37	53.84	0.01	J-262
J-2415	500	1,349.77	503.95	1,353.72	20	19	J-2281
J-2043	500	1,350.60	503.95	1,354.55	20.01	0.87	J-1296
J-7102	500	1,350.60	503.04	1,353.64	20.01	23.76	J-7101
J-1254	500	1,351.84	500	1,351.84	25.96	0	J-5119
J-1255	500	1,351.85	500	1,351.85	25.84	0	J-5119
J-921	500	1,351.90	503.59	1,355.49	28.41	0.01	J-886
J-7267	500	1,352.76	503.04	1,355.80	20	6.32	J-7291
J-7458	500	1,353.25	503.04	1,356.29	30.69	0	J-8222
J-8097	500	1,353.82	503.04	1,356.86	30.63	0	J-8222
J-7237	500	1,353.92	503.04	1,356.96	20.03	7.23	J-8307
J-4565	500	1,353.93	504.45	1,358.38	20	21.09	J-2502
J-7413	500	1,354.18	503.04	1,357.22	25.24	0	J-8222
J-8117	500	1,356.33	503.04	1,359.37	20.02	7.23	J-8307
J-508	500	1,356.67	503.59	1,360.26	20	0.87	J-1296
J-2609	500	1,357.78	503.95	1,361.73	20.01	0.87	J-1296
J-7982	500	1,358.73	503.04	1,361.77	20.01	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7501	500	1,358.81	503.04	1,361.85	23.56	0	J-8222
J-2523	500	1,359.34	503.95	1,363.29	20	18.68	J-2281
J-8026	500	1,360.09	502.76	1,362.85	20	0.87	J-1296
J-186	500	1,360.74	503.59	1,364.33	20.01	0.87	J-1296
J-7916	500	1,361.34	503.04	1,364.38	20	0.87	J-1296
J-322	500	1,361.75	503.59	1,365.34	25.89	0.01	J-320
J-7502	500	1,361.75	503.04	1,364.79	21.39	0	J-8222
J-4214	500	1,361.84	504.45	1,366.29	20	24.66	J-2502
J-7455	500	1,362.14	503.04	1,365.18	32.81	0	J-8222
J-2521	500	1,362.67	503.95	1,366.62	20	18.66	J-2281
J-2561	500	1,362.86	503.95	1,366.81	53.2	0	J-262
J-2562	500	1,363.12	503.95	1,367.07	46.81	0	J-262
J-7113	500	1,363.36	503.04	1,366.40	20.01	25.93	J-7092
J-2524	500	1,363.52	503.95	1,367.47	20	18.65	J-2281
J-2093	500	1,363.62	503.95	1,367.57	38.68	0.01	J-2163
J-4145	500	1,363.63	504.45	1,368.08	20	0.87	J-1296
J-7404	500	1,363.75	503.04	1,366.79	24.42	0	J-8222
J-2433	500	1,365.82	503.95	1,369.77	20	18.87	J-2281
J-1028	500	1,365.90	503.59	1,369.49	32.7	0	J-1000
J-507	500	1,365.98	503.59	1,369.57	20	0.87	J-1296
J-7191	500	1,366.28	503.04	1,369.32	20.01	7.23	J-8307
J-7184	500	1,367.23	503.04	1,370.27	20	7.23	J-8307
J-2171	500	1,368.10	503.95	1,372.05	30.07	0.02	J-2163
J-2172	500	1,368.31	503.95	1,372.26	28.06	0.01	J-2163
J-2104	500	1,368.80	503.95	1,372.75	34.82	0	J-2163
J-1216	500	1,368.87	503.59	1,372.46	60.6	0	J-8222
J-7303	500	1,369.55	503.04	1,372.59	20	5.64	J-8058
J-7679	500	1,369.82	503.04	1,372.86	20	0.87	J-1296
J-7234	500	1,370.86	503.04	1,373.90	20	6.71	J-8058
J-2446	500	1,370.94	503.95	1,374.89	20	18.84	J-2281
J-2170	500	1,371.47	503.95	1,375.42	32.67	0	J-2163
J-5022	500	1,371.84	503.31	1,375.15	20	6.96	J-5028
J-2519	500	1,372.53	503.95	1,376.48	20	18.58	J-2281
J-7052	500	1,373.05	503.04	1,376.09	20.01	21.3	J-7053
J-2616	500	1,373.25	503.95	1,377.20	20	0.87	J-1296
J-2091	500	1,375.27	503.95	1,379.22	28.16	0.02	J-2163
J-7656	500	1,375.41	503.04	1,378.45	20	17.84	J-7657
J-642	500	1,375.99	503.59	1,379.58	29.25	0	J-643
J-2087	500	1,376.25	503.95	1,380.20	28.63	0.01	J-2163
J-2168	500	1,376.81	503.95	1,380.76	21.43	0	J-2163
J-2169	500	1,376.81	503.95	1,380.76	21.2	0	J-2163
J-2465	500	1,378.19	503.95	1,382.14	20	0.87	J-1296
J-2210	500	1,378.69	503.95	1,382.64	20	0.87	J-1296
J-7453	500	1,379.75	503.04	1,382.79	27.95	0	J-8222
J-7065	500	1,379.76	503.04	1,382.80	20	27.91	J-7092
J-149	500	1,379.87	503.59	1,383.46	20	3.52	J-166
J-2072	500	1,380.36	503.95	1,384.31	30.26	0.01	J-2163
J-1172	500	1,380.52	502.56	1,383.08	20	0.87	J-1296
J-2071	500	1,380.64	503.95	1,384.59	39.23	0.01	J-2163
J-2090	500	1,380.87	503.95	1,384.82	22.24	0	J-2163
J-7781	500	1,381.18	503.04	1,384.22	20	0.87	J-1296
J-8113	500	1,382.83	503.04	1,385.87	20.02	7.23	J-8307
J-2056	500	1,383.26	503.95	1,387.21	20	0.87	J-1296
J-2420	500	1,383.76	503.95	1,387.71	20	18.74	J-2281
J-8164	500	1,383.86	507.8	1,391.66	20	0.87	J-1296
J-7165	500	1,384.61	503.04	1,387.65	20.01	7.23	J-8307
J-4381	500	1,384.71	504.45	1,389.16	20	24.13	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-323	500	1,384.94	503.59	1,388.53	23.17	0	J-320
J-2414	500	1,385.86	503.95	1,389.81	20	18.72	J-2281
J-7230	500	1,386.91	503.04	1,389.95	20	5.93	J-8058
J-2590	500	1,388.53	503.95	1,392.48	20	18.7	J-2281
J-2112	500	1,389.44	503.95	1,393.39	28.04	0.01	J-2163
J-7236	500	1,389.56	503.04	1,392.60	20	5.8	J-8058
J-2111	500	1,389.84	503.95	1,393.79	34.54	0	J-2163
J-2060	500	1,390.55	503.95	1,394.50	20	0.87	J-1296
J-2110	500	1,391.70	503.95	1,395.65	25.82	0.01	J-2163
J-2109	500	1,392.23	503.95	1,396.18	30.23	0	J-2163
J-8079	500	1,393.41	503.04	1,396.45	29.31	0	J-8222
J-7293	500	1,394.07	503.04	1,397.11	20	4.32	J-8058
J-7292	500	1,394.76	503.04	1,397.80	20	4.27	J-8058
J-2070	500	1,394.92	503.95	1,398.87	35.86	0	J-2163
J-2079	500	1,395.40	503.95	1,399.35	20.02	0.87	J-1296
J-7362	500	1,395.48	503.04	1,398.52	20	29.1	J-7138
J-7365	500	1,395.86	503.04	1,398.90	20	17.39	J-7382
J-4397	500	1,396.40	504.45	1,400.85	20	25.05	J-2508
J-664	500	1,397.32	503.59	1,400.91	20	0.87	J-1296
J-7229	500	1,398.75	503.04	1,401.79	20	5.34	J-8058
J-2069	500	1,398.79	503.95	1,402.74	29.83	0.01	J-2163
J-840	500	1,399.65	503.59	1,403.23	20	0.87	J-1296
J-2364	500	1,399.75	503.95	1,403.70	20	0.87	J-1296
J-451	500	1,399.83	503.59	1,403.42	20.01	0.87	J-1296
J-2044	500	1,400.17	503.95	1,404.12	20.04	0.87	J-1296
J-7117	500	1,400.17	503.04	1,403.21	20.01	25.65	J-7092
J-2591	500	1,400.95	503.95	1,404.90	20.03	0.87	J-1296
J-395	500	1,401.99	503.59	1,405.58	21.62	0	J-381
J-1164	500	1,402.50	537.51	1,440.01	73.54	0.01	J-262
J-3033	500	1,402.81	503.71	1,406.52	25.1	0	J-3038
J-2089	500	1,402.86	503.95	1,406.81	20.6	0.01	J-2163
J-2107	500	1,403.24	503.95	1,407.19	27.48	0.01	J-2163
J-514	500	1,403.27	503.59	1,406.86	20	0.87	J-1296
J-1203	500	1,405.03	500	1,405.03	20	0.87	J-1296
J-7235	500	1,405.66	503.04	1,408.70	20	5	J-8058
J-962	500	1,408.39	503.59	1,411.98	60.48	0	J-8222
J-2068	500	1,408.92	503.95	1,412.87	32.91	0	J-2163
J-8256	500	1,409.57	534.34	1,443.91	20	24.57	J-3038
J-7173	500	1,410.12	503.04	1,413.16	20	7.23	J-8307
J-838	500	1,410.36	503.59	1,413.95	20	0.87	J-1296
J-8044	500	1,410.37	503.04	1,413.41	20.03	6.64	J-8058
J-7166	500	1,410.39	503.04	1,413.43	20.01	7.23	J-8307
J-2615	500	1,410.84	503.95	1,414.79	20.63	0.01	J-2163
J-3019	500	1,411.52	503.71	1,415.23	20	7.02	J-3020
J-1049	500	1,413.58	503.59	1,417.17	20.02	0.87	J-1296
J-3067	500	1,414.86	507.7	1,422.56	20	6.49	J-8319
J-7451	500	1,416.19	503.04	1,419.23	24.83	0	J-8222
J-7183	500	1,416.87	503.04	1,419.91	20	7.22	J-8307
J-7317	500	1,416.87	503.04	1,419.91	20	3.25	J-8058
J-1027	500	1,417.52	503.59	1,421.11	31.36	0	J-1000
J-7699	500	1,417.91	503.04	1,420.95	20.01	0.83	J-7718
J-6029	500	1,418.05	502.76	1,420.81	20	0.87	J-1296
J-4271	500	1,419.13	504.45	1,423.58	20	22.43	J-4264
J-8111	500	1,419.70	503.04	1,422.74	20.02	7.22	J-8307
J-2088	500	1,419.93	503.95	1,423.88	24.13	0	J-2163
J-7315	500	1,420.22	503.04	1,423.26	20	3.07	J-8058
J-7459	500	1,420.60	503.04	1,423.64	22.41	0	J-8222

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7266	500	1,421.47	503.04	1,424.51	20	3.49	J-8058
J-7264	500	1,421.67	503.04	1,424.71	20	3.55	J-8058
J-2105	500	1,422.50	503.95	1,426.45	28.73	0.01	J-2163
J-7232	500	1,422.50	503.04	1,425.54	20.03	4.17	J-8058
J-7103	500	1,423.61	503.04	1,426.65	20.01	19.12	J-7102
J-2066	500	1,425.34	503.95	1,429.29	37.34	0	J-2163
J-4359	500	1,426.57	504.45	1,431.02	20	23.56	J-2502
J-2064	500	1,429.18	503.95	1,433.13	25.11	0.01	J-2163
J-2073	500	1,430.42	503.95	1,434.37	29.63	0.01	J-2163
J-7662	500	1,431.10	503.04	1,434.14	20	13.92	J-7657
J-2065	500	1,431.20	503.95	1,435.15	35.31	0	J-2163
J-2067	500	1,431.25	503.95	1,435.20	24.54	0	J-2163
J-394	500	1,431.69	503.59	1,435.28	22.2	0	J-381
J-4519	500	1,432.72	504.45	1,437.17	20	21.29	J-2502
J-2063	500	1,433.09	503.95	1,437.04	35.24	0	J-2163
J-7175	500	1,433.42	503.04	1,436.46	20	7.22	J-8307
J-2283	500	1,434.20	503.95	1,438.15	20	15.99	J-2282
J-7307	500	1,437.30	503.04	1,440.34	20	2.19	J-8058
J-506	500	1,437.94	503.59	1,441.53	20.01	0.87	J-1296
J-4437	500	1,437.98	504.45	1,442.43	20.03	23.56	J-2502
J-1278	500	1,439.79	500	1,439.79	20.01	0.87	J-1296
J-839	500	1,440.71	503.59	1,444.30	20	0.87	J-1296
J-2058	500	1,443.56	503.95	1,447.51	32.2	0	J-2163
J-2059	500	1,443.58	503.95	1,447.53	22.74	0	J-2163
J-7308	500	1,446.88	503.04	1,449.92	20	1.7	J-8058
J-5058	500	1,447.16	503.31	1,450.47	20	16.14	J-5082
J-8114	500	1,449.76	503.04	1,452.80	20.03	7.22	J-8307
J-7101	500	1,451.98	503.04	1,455.02	20	19.03	J-7102
J-7099	500	1,453.25	503.04	1,456.29	20	21.92	J-7102
J-393	500	1,454.28	503.59	1,457.87	20.38	0	J-381
J-7092	500	1,454.70	503.04	1,457.74	20	21.61	J-7102
J-4387	500	1,456.78	504.45	1,461.23	20	24.85	J-2508
J-7240	500	1,457.69	503.04	1,460.73	20	1.38	J-8058
J-7108	500	1,457.91	503.04	1,460.95	20.01	22.35	J-7109
J-2598	500	1,458.97	503.95	1,462.92	20	14.98	J-2282
J-7316	500	1,459.17	503.04	1,462.21	20	1.06	J-8058
J-7778	500	1,460.76	503.04	1,463.80	20	0.87	J-1296
J-7309	500	1,461.45	503.04	1,464.49	20	0.94	J-8058
J-4115	500	1,462.18	504.45	1,466.63	20	0.87	J-1296
J-5070	500	1,462.62	503.31	1,465.93	20	18.06	J-5071
J-7661	500	1,463.71	503.04	1,466.75	20	12.62	J-7659
J-7468	500	1,466.88	503.04	1,469.92	22.79	0	J-8222
J-7435	500	1,467.32	503.04	1,470.36	21.44	0	J-8222
J-8231	500	1,467.56	500	1,467.56	20	0.61	J-8058
J-135	500	1,467.61	503.59	1,471.20	20	17.4	J-136
J-7724	500	1,467.92	503.04	1,470.96	20	0.59	J-8058
J-4278	500	1,468.04	504.45	1,472.49	20	23.38	J-4264
J-517	500	1,468.66	503.59	1,472.25	20.01	0.87	J-1296
J-7182	500	1,469.01	503.04	1,472.05	20.01	7.22	J-8307
J-2536	500	1,470.12	503.95	1,474.07	20	18.01	J-2281
J-913	500	1,470.52	503.59	1,474.11	20.01	0.87	J-1296
J-2310	500	1,471.04	503.95	1,474.99	20	17.95	J-2508
J-7723	500	1,471.22	503.04	1,474.26	20	0.42	J-8058
J-7720	500	1,471.27	503.04	1,474.31	20	0.42	J-8058
J-2074	500	1,472.00	503.95	1,475.95	30.52	0.02	J-2163
J-2100	500	1,472.69	503.95	1,476.64	21.07	0	J-2163
J-7263	500	1,472.76	503.04	1,475.80	20	0.93	J-8058

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-5074	500	1,473.74	503.31	1,477.05	20	27.74	J-166
J-599	500	1,475.07	503.59	1,478.66	20.01	0.87	J-1296
J-8076	500	1,475.28	503.04	1,478.32	20	0.65	J-7718
J-4520	500	1,475.51	504.45	1,479.96	20	20.97	J-2502
J-2434	500	1,477.76	503.95	1,481.71	20	18.01	J-2281
J-4171	500	1,477.99	504.45	1,482.44	20	0.87	J-1296
J-7297	500	1,479.02	503.04	1,482.06	30.34	0.02	J-8058
J-7301	500	1,479.10	503.04	1,482.14	29.26	0.02	J-8058
J-7319	500	1,479.14	503.04	1,482.18	30.26	0.01	J-8058
J-7322	500	1,479.14	503.04	1,482.18	29.01	0.01	J-8058
J-8232	500	1,479.15	500	1,479.15	23.64	0	J-8058
J-8233	500	1,479.16	500	1,479.16	23.87	0	J-8058
J-8135	500	1,479.17	503.04	1,482.21	29.16	0.01	J-8058
J-7295	500	1,479.20	503.04	1,482.24	20.44	0	J-8058
J-6045	500	1,479.22	502.76	1,481.98	74.2	0	J-8058
J-6071	500	1,479.22	500	1,479.22	60.41	0	J-8058
J-6072	500	1,479.22	500	1,479.22	63.28	0	J-8058
J-6073	500	1,479.22	500	1,479.22	57.26	0	J-8058
J-6074	500	1,479.22	500	1,479.22	57	0	J-8058
J-6077	500	1,479.22	500	1,479.22	72.54	0	J-8058
J-6079	500	1,479.22	500	1,479.22	72.87	0	J-8058
J-7325	500	1,479.22	503.04	1,482.26	27.84	0.01	J-8058
J-7725	500	1,479.22	503.04	1,482.26	20.26	0	J-8058
J-8230	500	1,479.22	500	1,479.22	57.04	0	J-8058
J-7320	500	1,479.29	503.04	1,482.33	26.03	0.01	J-8058
J-7296	500	1,479.35	503.04	1,482.39	23.87	0	J-8058
J-7302	500	1,479.42	503.04	1,482.46	21.5	0	J-8058
J-7321	500	1,479.42	503.04	1,482.46	21.4	0	J-8058
J-1204	500	1,480.43	500	1,480.43	20.02	0.87	J-1296
J-2075	500	1,481.36	503.95	1,485.31	25.34	0.01	J-2163
J-2398	500	1,481.61	503.95	1,485.56	20	17.57	J-2281
J-86	500	1,481.68	503.59	1,485.27	20	0.32	J-8222
J-184	500	1,481.94	503.59	1,485.53	50.19	0	J-196
J-7757	500	1,482.38	503.04	1,485.42	20	0.87	J-1296
J-7089	500	1,483.74	503.04	1,486.78	20	20.78	J-7092
J-2185	500	1,484.21	503.95	1,488.16	20	5.96	J-2184
J-8095	500	1,484.38	503.04	1,487.42	20	6.49	J-8319
J-2395	500	1,484.66	503.95	1,488.61	20	17.54	J-2281
J-2492	500	1,484.76	503.95	1,488.71	20	0.87	J-1296
J-2368	500	1,484.87	503.95	1,488.82	20	18.07	J-2508
J-4355	500	1,485.65	504.45	1,490.10	20	23.15	J-2502
J-4079	500	1,487.43	504.45	1,491.88	20.02	0.87	J-1296
J-2053	500	1,487.67	503.95	1,491.62	21.21	0	J-2163
J-7228	500	1,488.11	503.04	1,491.15	20	0.86	J-8058
J-7094	500	1,488.22	503.04	1,491.26	20	19.78	J-7102
J-4107	500	1,488.41	504.45	1,492.86	20	0.87	J-1296
J-7716	500	1,489.53	503.04	1,492.57	20	0.77	J-8058
J-7262	500	1,490.78	503.04	1,493.82	20.23	0	J-8058
J-7649	500	1,491.07	503.04	1,494.11	20	25.96	J-7652
J-7717	500	1,491.73	503.04	1,494.77	20	0.62	J-8058
J-809	500	1,492.07	503.59	1,495.66	20.03	0.87	J-1296
J-141	500	1,492.48	503.59	1,496.07	20	17.22	J-166
J-7224	500	1,493.73	503.04	1,496.77	20	2.09	J-8058
J-392	500	1,495.68	503.59	1,499.27	28.03	0	J-381
J-2082	500	1,495.83	503.95	1,499.78	23.99	0.01	J-2163
J-7469	500	1,496.00	503.04	1,499.04	20	0.19	J-8222
J-7765	500	1,497.07	503.04	1,500.11	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4516	500	1,501.48	504.45	1,505.93	20	21.09	J-2502
J-7260	500	1,502.09	503.04	1,505.13	20	2.22	J-8058
J-4502	500	1,502.80	504.45	1,507.25	20	20.78	J-2502
J-328	500	1,502.87	503.59	1,506.46	24.15	0	J-320
J-7611	500	1,503.28	503.04	1,506.32	20.02	17.42	J-7613
J-231	500	1,503.61	503.59	1,507.20	20.07	0.87	J-1296
J-2047	500	1,504.08	503.95	1,508.03	20.03	0.87	J-1296
J-7981	500	1,504.30	503.04	1,507.34	20.02	6.49	J-8319
J-637	500	1,505.03	503.59	1,508.62	20	0.87	J-1296
J-2419	500	1,505.20	503.95	1,509.15	20	17.79	J-2281
J-3068	500	1,506.42	507.7	1,514.12	20.01	6.49	J-8319
J-2076	500	1,507.25	503.95	1,511.20	22.96	0.02	J-2163
J-2077	500	1,507.93	503.95	1,511.88	21.31	0	J-2163
J-2613	500	1,508.61	503.95	1,512.56	23.12	0.01	J-2163
J-7239	500	1,508.73	503.04	1,511.77	25.55	0.01	J-8058
J-2423	500	1,508.86	503.95	1,512.81	20.01	17.76	J-2281
J-7091	500	1,509.17	503.04	1,512.21	20.01	20.1	J-7092
J-7060	500	1,509.46	503.04	1,512.50	20	29.58	J-3038
J-8060	500	1,511.66	503.04	1,514.70	20	3.79	J-8058
J-185	500	1,514.08	503.59	1,517.67	52.03	0	J-196
J-2027	500	1,514.39	503.95	1,518.34	20.03	0.87	J-1296
J-813	500	1,514.52	503.59	1,518.11	38.44	0	J-814
J-2078	500	1,514.83	503.95	1,518.78	22.76	0.01	J-2163
J-7403	500	1,514.97	503.04	1,518.01	25.23	0	J-8222
J-1223	500	1,515.07	509.89	1,524.96	24.89	0	J-320
J-8129	500	1,515.34	503.04	1,518.38	20.01	22.61	J-7092
J-5095	500	1,515.81	503.31	1,519.12	20	27.84	J-5094
J-3069	500	1,516.88	507.7	1,524.58	20.01	3.57	J-3071
J-644	500	1,517.12	503.59	1,520.71	20	0.87	J-1296
J-7436	500	1,517.57	503.04	1,520.61	21.45	0	J-8222
J-956	500	1,517.98	503.59	1,521.57	58.28	0	J-8222
J-7660	500	1,518.03	503.04	1,521.07	20	17.83	J-7657
J-2035	500	1,519.04	503.95	1,522.99	20	0.87	J-1296
J-7732	500	1,519.92	503.04	1,522.96	20	0.87	J-1296
J-4433	500	1,519.96	504.45	1,524.41	20	22.46	J-2502
J-560	500	1,520.73	503.59	1,524.32	20	0.87	J-1296
J-454	500	1,522.01	503.59	1,525.60	20	0.87	J-1296
J-4321	500	1,522.89	504.45	1,527.34	20	19.99	J-4323
J-2186	500	1,523.58	503.95	1,527.53	23.8	0	J-2184
J-7111	500	1,523.76	503.04	1,526.80	20	20	J-7112
J-2643	500	1,523.91	500	1,523.91	20	17.64	J-2281
J-7093	500	1,524.19	503.04	1,527.23	20	19.09	J-7092
J-2085	500	1,524.45	503.95	1,528.40	21.91	0	J-2163
J-4505	500	1,525.29	504.45	1,529.74	20	20.68	J-2502
J-7109	500	1,525.37	503.04	1,528.41	20	20	J-7108
J-7069	500	1,526.71	503.04	1,529.75	20.01	18.27	J-7075
J-4523	500	1,527.44	504.45	1,531.89	20	20.16	J-4520
J-7437	500	1,527.61	503.04	1,530.65	25.34	0	J-8222
J-1100	500	1,527.75	503.59	1,531.34	20	0.87	J-1296
J-4229	500	1,527.90	504.45	1,532.35	20	23.95	J-2502
J-7746	500	1,530.06	503.04	1,533.10	20	0.87	J-1296
J-4522	500	1,530.24	504.45	1,534.69	20	19.1	J-4520
J-7167	500	1,531.12	503.04	1,534.16	20.01	7.21	J-8307
J-7652	500	1,534.09	503.04	1,537.13	20	25.65	J-7655
J-7442	500	1,534.48	503.04	1,537.52	27.12	0	J-8222
J-4524	500	1,535.05	504.45	1,539.50	20	19.6	J-4523
J-85	500	1,536.41	503.59	1,540.00	53.95	0	J-8222



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7441	500	1,538.89	503.04	1,541.93	29.34	0	J-8222
J-4527	500	1,538.98	504.45	1,543.43	20	19.22	J-4523
J-2226	500	1,540.02	503.95	1,543.97	20	0.87	J-1296
J-1004	500	1,540.20	503.59	1,543.79	20.02	0.87	J-1296
J-4665	500	1,540.41	509.84	1,550.25	20	6.49	J-8319
J-955	500	1,541.08	503.59	1,544.67	51.24	0	J-8222
J-7220	500	1,541.28	503.04	1,544.32	20	0.28	J-8058
J-7223	500	1,546.33	503.04	1,549.37	20.27	0	J-8058
J-4363	500	1,546.81	504.45	1,551.26	20	0.87	J-1296
J-7222	500	1,547.35	503.04	1,550.39	20.51	0	J-8058
J-7221	500	1,547.94	503.04	1,550.98	20.98	0	J-8058
J-1222	500	1,548.50	509.89	1,558.39	25.46	0.01	J-320
J-7440	500	1,548.78	503.04	1,551.82	28.49	0	J-8222
J-4526	500	1,548.98	504.45	1,553.43	20	18.63	J-4523
J-2457	500	1,550.52	503.95	1,554.47	20.01	17.03	J-2453
J-7651	500	1,551.51	503.04	1,554.55	20	23.45	J-7652
J-7085	500	1,552.77	503.04	1,555.81	20	18.65	J-7092
J-2451	500	1,554.58	503.95	1,558.53	20.01	16.75	J-2453
J-4401	500	1,556.43	504.45	1,560.88	20	24.87	J-2508
J-232	500	1,556.79	503.59	1,560.38	20.03	0.87	J-1296
J-7438	500	1,557.15	503.04	1,560.19	25.79	0	J-8222
J-855	500	1,557.26	503.59	1,560.85	20	0.87	J-1296
J-4525	500	1,558.00	504.45	1,562.45	20	17.77	J-4523
J-2641	500	1,561.81	500	1,561.81	20	17.34	J-2281
J-7218	500	1,562.22	503.04	1,565.26	22.03	0	J-8058
J-5069	500	1,562.35	503.31	1,565.66	20	20.15	J-5082
J-745	500	1,562.45	503.59	1,566.04	20	0.87	J-1296
J-8130	500	1,563.65	503.04	1,566.69	20.01	20.46	J-7102
J-2173	500	1,564.79	503.95	1,568.74	20	2.45	J-2184
J-7086	500	1,566.32	503.04	1,569.36	20	18.02	J-7092
J-2461	500	1,569.41	503.95	1,573.36	20.03	0.87	J-1296
J-4510	500	1,569.74	504.45	1,574.19	20	18.23	J-4520
J-4680	500	1,570.38	500	1,570.38	20	6.49	J-8319
J-616	500	1,571.03	503.59	1,574.62	20.01	0.87	J-1296
J-518	500	1,571.89	503.59	1,575.48	20.01	0.87	J-1296
J-957	500	1,572.73	503.59	1,576.32	31.9	0	J-8222
J-7364	500	1,573.06	503.04	1,576.10	20	18.66	J-7382
J-734	500	1,573.08	503.59	1,576.67	20	0.87	J-1296
J-7172	500	1,574.46	503.04	1,577.50	20	7.21	J-8307
J-2045	500	1,575.63	503.95	1,579.58	26.51	0.01	J-2163
J-1153	500	1,577.31	503.59	1,580.90	22.88	0	J-320
J-7400	500	1,577.65	503.04	1,580.69	23.08	0	J-8222
J-2314	500	1,580.18	503.95	1,584.13	20.01	0.37	J-2163
J-7088	500	1,580.39	503.04	1,583.43	20	17.88	J-7092
J-504	500	1,580.49	503.59	1,584.08	20.01	0.87	J-1296
J-2218	500	1,580.60	503.95	1,584.55	20.06	0.87	J-1296
J-7486	500	1,582.01	503.04	1,585.05	20.35	0	J-8222
J-7087	500	1,582.03	503.04	1,585.07	20	18.2	J-7092
J-466	500	1,582.70	503.59	1,586.29	20	0.87	J-1296
J-84	500	1,582.87	503.59	1,586.46	37.71	0	J-8222
J-852	500	1,582.96	503.59	1,586.55	20	0.87	J-1296
J-4260	500	1,583.49	504.45	1,587.94	20	24.93	J-2508
J-7139	500	1,583.96	503.04	1,587.00	20	18.8	J-7382
J-7219	500	1,584.98	503.04	1,588.02	29.67	0.02	J-8058
J-4511	500	1,586.48	504.45	1,590.93	20	18.94	J-4520
J-7161	500	1,586.48	503.04	1,589.52	20	7.21	J-8307
J-7084	500	1,587.90	503.04	1,590.94	20	17.73	J-7092

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-1221	500	1,588.01	500	1,588.01	26.7	0.01	J-320
J-7010	500	1,588.39	503.04	1,591.43	20	22.26	J-3038
J-1220	500	1,589.36	500	1,589.36	24.36	0	J-320
J-8059	500	1,590.01	503.04	1,593.05	25.15	0.01	J-8058
J-856	500	1,590.16	503.59	1,593.75	20	0.87	J-1296
J-7482	500	1,590.93	503.04	1,593.97	28.4	0	J-8222
J-5045	500	1,591.48	503.31	1,594.79	20	14.37	J-5126
J-2054	500	1,591.68	503.95	1,595.63	23.93	0	J-2163
J-1154	500	1,594.36	503.59	1,597.95	20	0.14	J-308
J-2607	500	1,594.41	503.95	1,598.36	20.03	0.76	J-2163
J-7083	500	1,594.50	503.04	1,597.54	20	17.95	J-7092
J-572	500	1,594.66	503.59	1,598.25	20	0.87	J-1296
J-4126	500	1,595.31	509.84	1,605.15	20	6.49	J-8319
J-2084	500	1,595.58	503.95	1,599.53	26.66	0.01	J-2163
J-2099	500	1,595.59	503.95	1,599.54	25.87	0.01	J-2163
J-2295	500	1,595.61	503.95	1,599.56	25.2	0.01	J-2163
J-8104	500	1,596.35	503.04	1,599.39	32.99	0	J-8058
J-7163	500	1,600.64	503.04	1,603.68	20.02	7.21	J-8307
J-2217	500	1,601.14	503.95	1,605.09	20.06	0.87	J-1296
J-505	500	1,601.18	503.59	1,604.77	20.02	0.87	J-1296
J-2449	500	1,601.28	503.95	1,605.23	20.01	16.31	J-2453
J-7138	500	1,601.30	503.04	1,604.34	20	23.83	J-7382
J-930	500	1,601.67	503.59	1,605.26	20.01	0.87	J-1296
J-2028	500	1,601.94	503.95	1,605.89	20.03	0.87	J-1296
J-7211	500	1,602.00	503.04	1,605.04	28.69	0.01	J-8058
J-1155	500	1,602.28	503.59	1,605.87	20.02	0.04	J-308
J-8105	500	1,604.11	503.04	1,607.15	32.51	0	J-8058
J-7188	500	1,604.34	503.04	1,607.38	20.02	7.21	J-8307
J-8106	500	1,605.35	503.04	1,608.39	32.45	0	J-8058
J-4269	500	1,605.93	504.45	1,610.38	20	18.47	J-4264
J-641	500	1,606.10	503.59	1,609.69	20	0.87	J-1296
J-8110	500	1,606.22	503.04	1,609.26	29.23	0.02	J-8058
J-8119	500	1,606.57	503.04	1,609.61	25.51	0.01	J-8058
J-8116	500	1,606.59	503.04	1,609.63	26.02	0.01	J-8058
J-8118	500	1,606.59	503.04	1,609.63	25.54	0.01	J-8058
J-8115	500	1,606.64	503.04	1,609.68	27.53	0.01	J-8058
J-6028	500	1,606.71	502.76	1,609.47	20	0.87	J-1296
J-8112	500	1,606.75	503.04	1,609.79	29.47	0.02	J-8058
J-4287	500	1,607.62	504.45	1,612.07	20	14.38	J-4288
J-8107	500	1,607.70	503.04	1,610.74	31.48	0	J-8058
J-2422	500	1,609.20	503.95	1,613.15	20.01	15.79	J-2432
J-3070	500	1,609.48	507.7	1,617.18	20.01	0.79	J-3071
J-1202	500	1,610.41	500	1,610.41	20	0.87	J-1296
J-7199	500	1,610.96	503.04	1,614.00	20	7.21	J-8307
J-2055	500	1,610.99	503.95	1,614.94	22.78	0	J-2163
J-7212	500	1,611.60	503.04	1,614.64	39.4	0	J-8058
J-2639	500	1,611.90	500	1,611.90	20.01	16.93	J-2281
J-7210	500	1,611.90	503.04	1,614.94	39.33	0	J-8058
J-7206	500	1,612.71	503.04	1,615.75	34.7	0	J-8058
J-7209	500	1,612.71	503.04	1,615.75	34.84	0	J-8058
J-837	500	1,612.86	503.59	1,616.45	20.01	0.87	J-1296
J-2315	500	1,613.20	503.95	1,617.15	23.2	0.02	J-2163
J-7208	500	1,613.20	503.04	1,616.24	26.95	0.01	J-8058
J-7491	500	1,613.25	503.04	1,616.29	20.1	0	J-8222
J-7207	500	1,613.29	503.04	1,616.33	26.93	0.01	J-8058
J-83	500	1,614.39	503.59	1,617.98	37.83	0	J-8222
J-4000	500	1,614.87	523.65	1,638.52	20	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2518	500	1,615.62	503.95	1,619.57	20	16.57	J-2281
J-7648	500	1,615.84	503.04	1,618.88	20	20.26	J-7649
J-2640	500	1,616.61	500	1,616.61	20.01	16.89	J-2281
J-2183	500	1,619.35	503.95	1,623.30	20	2.69	J-2184
J-8108	500	1,620.01	503.04	1,623.05	39	0	J-8058
J-7201	500	1,620.02	503.04	1,623.06	20	6.36	J-8058
J-7197	500	1,621.69	503.04	1,624.73	20	7.21	J-8307
J-7730	500	1,621.82	503.04	1,624.86	20	0.87	J-1296
J-4500	500	1,621.84	504.45	1,626.29	20	20.06	J-2502
J-8109	500	1,621.95	503.04	1,624.99	37.26	0	J-8058
J-2638	500	1,622.46	500	1,622.46	20.01	16.85	J-2281
J-2642	500	1,622.48	500	1,622.48	20.01	16.85	J-2281
J-4043	500	1,624.62	504.45	1,629.07	20	6.49	J-8319
J-230	500	1,624.77	503.59	1,628.36	20.03	0.87	J-1296
J-857	500	1,625.58	503.59	1,629.17	20	0.87	J-1296
J-2436	500	1,626.14	503.95	1,630.09	20.01	8.71	J-2432
J-453	500	1,626.67	503.59	1,630.26	20.01	0.87	J-1296
J-74	500	1,626.92	503.59	1,630.51	30.94	0	J-8222
J-7121	500	1,627.13	503.04	1,630.17	20.02	18.58	J-7102
J-7105	500	1,627.19	503.04	1,630.23	20	13.28	J-7102
J-77	500	1,627.28	503.59	1,630.87	30.66	0	J-8222
J-75	500	1,627.30	503.59	1,630.89	23.57	0	J-8222
J-81	500	1,627.40	503.59	1,630.99	37.12	0	J-8222
J-4666	500	1,629.69	509.84	1,639.53	20	6.49	J-8319
J-79	500	1,630.02	503.59	1,633.61	38.85	0	J-8222
J-7535	500	1,630.10	503.04	1,633.14	20	0.15	J-8222
J-80	500	1,630.53	503.59	1,634.12	23.22	0	J-8222
J-4515	500	1,632.39	504.45	1,636.84	20	20	J-4516
J-7204	500	1,633.29	503.04	1,636.33	20	0.44	J-8058
J-7116	500	1,633.75	503.04	1,636.79	20.02	19.15	J-7092
J-2048	500	1,635.45	503.95	1,639.40	20.94	0.01	J-2163
J-537	500	1,638.13	503.59	1,641.72	20	0.87	J-1296
J-2032	500	1,638.60	503.95	1,642.55	45.01	0	J-2163
J-832	500	1,638.79	503.59	1,642.38	20	0.87	J-1296
J-7868	500	1,638.99	503.04	1,642.03	20	0.87	J-1296
J-2435	500	1,639.93	503.95	1,643.88	20.01	12.63	J-2432
J-2363	500	1,640.73	503.95	1,644.68	20	0.87	J-1296
J-2031	500	1,640.81	503.95	1,644.76	41.67	0	J-2163
J-2033	500	1,640.85	503.95	1,644.80	34.72	0	J-2163
J-4211	500	1,641.02	504.45	1,645.47	20	24.21	J-2502
J-7363	500	1,641.45	503.04	1,644.49	20	18	J-7382
J-8220	500	1,642.17	503.04	1,645.21	20	0.21	J-8222
J-78	500	1,642.42	503.59	1,646.01	53.94	0	J-8222
J-7202	500	1,642.67	503.04	1,645.71	36.29	0	J-8058
J-4432	500	1,642.95	504.45	1,647.40	20	14.81	J-4434
J-2029	500	1,643.12	503.95	1,647.07	23.54	0	J-2163
J-2479	500	1,643.20	503.95	1,647.15	58.27	0	J-196
J-7141	500	1,643.35	503.04	1,646.39	20	18.03	J-7138
J-762	500	1,644.42	503.59	1,648.01	20	0.87	J-1296
J-148	500	1,644.45	503.59	1,648.04	20.01	4.59	J-166
J-7399	500	1,644.52	503.04	1,647.56	22.67	0	J-8222
J-4467	500	1,644.55	504.45	1,649.00	20	19.54	J-2502
J-747	500	1,644.85	503.59	1,648.44	20	0.87	J-1296
J-7140	500	1,645.29	503.04	1,648.33	20	17.93	J-7138
J-519	500	1,645.66	503.59	1,649.25	20.02	0.87	J-1296
J-7095	500	1,645.67	503.04	1,648.71	20	15.24	J-7092
J-7164	500	1,645.99	503.04	1,649.03	20.02	7.2	J-8307

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4663	500	1,647.86	509.84	1,657.70	20	6.49	J-8319
J-8120	500	1,648.56	503.04	1,651.60	38.98	0	J-8058
J-452	500	1,649.97	503.59	1,653.56	20	0.87	J-1296
J-7777	500	1,650.43	503.04	1,653.47	20	0.87	J-1296
J-817	500	1,650.89	503.59	1,654.48	20.04	0.87	J-1296
J-7985	500	1,651.70	503.04	1,654.74	20.03	6.49	J-8319
J-736	500	1,652.74	503.59	1,656.33	20	0.87	J-1296
J-300	500	1,654.64	503.59	1,658.23	20.17	0	J-308
J-7693	500	1,656.20	503.04	1,659.24	23.64	0	J-7718
J-491	500	1,656.26	503.59	1,659.85	20	0.87	J-1296
J-5094	500	1,656.71	503.31	1,660.02	20	22.28	J-5090
J-8045	500	1,657.66	503.04	1,660.70	23.43	0	J-7718
J-6017	500	1,658.53	502.76	1,661.29	20	0.87	J-1296
J-8046	500	1,660.20	503.04	1,663.24	23.06	0	J-7718
J-2589	500	1,661.35	503.95	1,665.30	20.01	16.52	J-2281
J-2036	500	1,663.43	503.95	1,667.38	37.01	0.01	J-2163
J-7607	500	1,666.42	503.04	1,669.46	20.02	34.3	J-8261
J-858	500	1,666.88	503.59	1,670.47	20	0.87	J-1296
J-7653	500	1,667.80	503.04	1,670.84	20	19.32	J-7657
J-7118	500	1,668.52	503.04	1,671.56	20	18.47	J-7092
J-7068	500	1,672.07	503.04	1,675.11	20.01	16.11	J-7080
J-4242	500	1,672.08	504.45	1,676.53	20	24.57	J-2502
J-2203	500	1,673.34	503.95	1,677.29	20	0.87	J-1296
J-7695	500	1,674.28	503.04	1,677.32	20.84	0	J-7718
J-8128	500	1,674.83	503.04	1,677.87	20	18.03	J-7092
J-2637	500	1,675.36	500	1,675.36	20.01	14.6	J-2453
J-512	500	1,676.45	503.59	1,680.04	20.01	0.87	J-1296
J-2636	500	1,677.81	500	1,677.81	20.01	14.43	J-2453
J-7483	500	1,679.76	503.04	1,682.80	32.77	0	J-8222
J-7891	500	1,682.27	503.04	1,685.31	20	0.87	J-1296
J-7082	500	1,682.44	503.04	1,685.48	20	15.07	J-7092
J-8144	500	1,682.81	526.68	1,709.49	20	20.13	J-7010
J-191	500	1,683.39	503.59	1,686.98	58.06	0	J-196
J-5089	500	1,683.71	503.31	1,687.02	20	14.37	J-5090
J-7192	500	1,685.19	503.04	1,688.23	20	7.2	J-8307
J-7115	500	1,685.34	503.04	1,688.38	20	17.63	J-7092
J-764	500	1,685.37	503.59	1,688.96	20.03	0.87	J-1296
J-2448	500	1,686.93	503.95	1,690.88	20.01	16.31	J-2281
J-516	500	1,687.04	503.59	1,690.63	20	0.87	J-1296
J-3017	500	1,687.87	503.71	1,691.58	20	23.36	J-3018
J-2441	500	1,689.37	503.95	1,693.32	20.01	12.41	J-2432
J-2288	500	1,693.99	503.95	1,697.94	20.01	15.06	J-2281
J-4298	500	1,694.84	504.45	1,699.29	20	23.48	J-2502
J-7008	500	1,697.32	503.04	1,700.36	20.01	19.57	J-7010
J-2440	500	1,698.16	503.95	1,702.11	20.01	10.52	J-2432
J-7081	500	1,699.32	503.04	1,702.36	20	15.23	J-7092
J-1071	500	1,703.00	503.59	1,706.59	74.1	0	J-262
J-4676	500	1,704.49	500	1,704.49	20	6.49	J-8319
J-7160	500	1,707.19	503.04	1,710.23	20	7.2	J-8307
J-515	500	1,707.86	503.59	1,711.45	20.02	0.87	J-1296
J-4143	500	1,708.25	504.45	1,712.70	20	0.87	J-1296
J-6018	500	1,709.05	502.76	1,711.81	20	0.87	J-1296
J-7097	500	1,712.70	503.04	1,715.74	20	13.5	J-7092
J-7890	500	1,713.27	503.04	1,716.31	20	0.87	J-1296
J-7181	500	1,713.32	503.04	1,716.36	20.02	7.2	J-8307
J-5072	500	1,715.50	503.31	1,718.81	20	19.63	J-5074
J-7110	500	1,716.85	503.04	1,719.89	20	15.67	J-7092

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7908	500	1,717.54	503.04	1,720.58	20	0.87	J-1296
J-7398	500	1,719.78	503.04	1,722.82	22.69	0	J-8222
J-7646	500	1,720.07	503.04	1,723.11	20	20.31	J-7652
J-2442	500	1,720.30	503.95	1,724.25	20.01	13.88	J-2432
J-961	500	1,721.47	503.59	1,725.06	53.89	0	J-381
J-4127	500	1,721.55	509.84	1,731.39	20	6.49	J-8319
J-146	500	1,722.29	503.59	1,725.88	20.01	6.9	J-166
J-584	500	1,724.61	503.59	1,728.20	20.01	0.87	J-1296
J-445	500	1,726.29	503.59	1,729.88	20.01	0.87	J-1296
J-7147	500	1,729.70	503.04	1,732.74	20	7.19	J-8307
J-4320	500	1,731.72	504.45	1,736.17	20	16.09	J-4323
J-2243	500	1,733.92	503.95	1,737.87	20	14.23	J-2248
J-8219	500	1,734.66	503.04	1,737.70	23.5	0	J-8222
J-4368	500	1,739.00	504.45	1,743.45	20	23.44	J-2502
J-7174	500	1,739.38	503.04	1,742.42	20	7.19	J-8307
J-2413	500	1,741.11	503.95	1,745.06	20	13.08	J-2415
J-7195	500	1,742.71	503.04	1,745.75	20	7.19	J-8307
J-4177	500	1,743.16	504.45	1,747.61	20.01	0.87	J-1296
J-2362	500	1,743.69	503.95	1,747.64	20.05	0.87	J-1296
J-7090	500	1,744.59	503.04	1,747.63	20	12.26	J-7089
J-7190	500	1,745.78	503.04	1,748.82	20	7.19	J-8307
J-7650	500	1,746.17	503.04	1,749.21	20	15.34	J-7649
J-7910	500	1,746.28	503.04	1,749.32	20	0.87	J-1296
J-8093	500	1,750.06	503.04	1,753.10	20.01	6.49	J-8319
J-470	500	1,751.23	503.59	1,754.82	20.01	0.87	J-1296
J-7961	500	1,752.54	503.04	1,755.58	20	0.87	J-1296
J-197	500	1,753.26	503.59	1,756.85	55.87	0	J-220
J-836	500	1,755.93	503.59	1,759.52	20.01	0.87	J-1296
J-4662	500	1,758.74	509.84	1,768.58	20	6.49	J-8319
J-4099	500	1,758.79	504.45	1,763.24	20	0.87	J-1296
J-3016	500	1,760.28	503.71	1,763.99	20	18.27	J-3018
J-2267	500	1,760.55	503.95	1,764.50	20	15.07	J-2281
J-7698	500	1,761.20	503.04	1,764.24	20	0.87	J-1296
J-536	500	1,762.96	503.59	1,766.55	20	0.87	J-1296
J-513	500	1,763.11	503.59	1,766.70	20	0.87	J-1296
J-7162	500	1,763.24	503.04	1,766.28	20	7.19	J-8307
J-7136	500	1,767.57	503.04	1,770.61	20	22.14	J-7138
J-7645	500	1,768.17	503.04	1,771.21	20	18.21	J-7652
J-7200	500	1,769.23	503.04	1,772.27	33.19	0	J-8058
J-520	500	1,770.46	503.59	1,774.05	20	0.87	J-1296
J-4300	500	1,774.29	504.45	1,778.74	20	23.32	J-2502
J-87	500	1,775.34	503.59	1,778.93	20	0.87	J-1296
J-2478	500	1,777.14	503.95	1,781.09	48.39	0.01	J-196
J-804	500	1,779.06	503.59	1,782.65	20.02	0.87	J-1296
J-2193	500	1,779.42	503.95	1,783.37	20	0.87	J-1296
J-2445	500	1,779.84	503.95	1,783.79	20.01	10.34	J-2432
J-7135	500	1,780.98	503.04	1,784.02	20	21.41	J-7136
J-2240	500	1,787.05	503.95	1,791.00	20.04	0.87	J-1296
J-2635	500	1,788.56	500	1,788.56	20.01	6.8	J-2453
J-2474	500	1,789.43	503.95	1,793.38	47.66	0.01	J-196
J-1276	500	1,790.19	500	1,790.19	20	0.87	J-1296
J-4597	500	1,791.12	503.51	1,794.63	20	0.87	J-1296
J-7597	500	1,793.85	503.04	1,796.89	20	20	J-7601
J-2606	500	1,794.09	503.95	1,798.04	36.12	0	J-2163
J-7114	500	1,794.17	503.04	1,797.21	20	13.69	J-7092
J-2605	500	1,794.25	503.95	1,798.20	56.58	0	J-2163
J-7741	500	1,794.42	503.04	1,797.46	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-1005	500	1,794.99	503.59	1,798.58	20.03	0.87	J-1296
J-1200	500	1,795.63	500	1,795.63	20	0.87	J-1296
J-825	500	1,797.28	503.59	1,800.87	74.13	0	J-262
J-522	500	1,797.52	503.59	1,801.11	20	0.87	J-1296
J-229	500	1,797.61	503.59	1,801.20	20.02	0.87	J-1296
J-4170	500	1,797.93	504.45	1,802.38	20	0.87	J-1296
J-5086	500	1,798.13	503.31	1,801.44	20	23.02	J-5090
J-4681	500	1,798.35	500	1,798.35	20	6.49	J-8319
J-32	500	1,798.36	503.59	1,801.95	20.01	6.49	J-8319
J-4436	500	1,799.15	504.45	1,803.60	20	19.57	J-4437
J-628	500	1,801.57	503.59	1,805.16	20	0.87	J-1296
J-5087	500	1,803.01	503.31	1,806.32	20	19.78	J-5086
J-2401	500	1,803.34	503.95	1,807.29	20	14.75	J-2281
J-2388	500	1,803.53	503.95	1,807.48	20	14.54	J-2281
J-4231	500	1,805.80	504.45	1,810.25	20	23.87	J-2502
J-7747	500	1,808.76	503.04	1,811.80	20	0.87	J-1296
J-400	500	1,809.10	503.59	1,812.69	20	0.87	J-1296
J-5088	500	1,809.42	503.31	1,812.73	20	14.37	J-5090
J-4215	500	1,809.97	504.45	1,814.42	20	23.92	J-2502
J-1166	500	1,810.11	503.59	1,813.70	20	0.87	J-1296
J-7755	500	1,810.70	503.04	1,813.74	20	0.87	J-1296
J-2655	500	1,811.40	500	1,811.40	20	0.87	J-1296
J-8303	500	1,814.44	500	1,814.44	20	20.62	J-8302
J-527	500	1,815.10	503.59	1,818.69	27.26	0.01	J-907
J-397	500	1,817.60	503.59	1,821.19	29.01	0	J-381
J-7390	500	1,818.44	503.04	1,821.48	21.42	0	J-8222
J-4327	500	1,819.93	504.45	1,824.38	20	22.55	J-2502
J-8302	500	1,824.83	500	1,824.83	20	20	J-8303
J-2509	500	1,825.87	503.95	1,829.82	20	14.75	J-2508
J-2026	500	1,826.75	503.95	1,830.70	56.93	0	J-2163
J-7043	500	1,826.77	503.04	1,829.81	20	19.74	J-7052
J-526	500	1,827.03	503.59	1,830.62	30.99	0	J-907
J-4174	500	1,828.92	504.45	1,833.37	20	0.87	J-1296
J-4446	500	1,831.90	504.45	1,836.35	20	20.92	J-2502
J-7134	500	1,831.99	503.04	1,835.03	20	20.81	J-7133
J-2468	500	1,834.66	503.95	1,838.61	43.89	0.01	J-196
J-198	500	1,835.83	503.59	1,839.42	55.63	0.01	J-220
J-7066	500	1,836.28	503.04	1,839.32	20	12.58	J-7092
J-7133	500	1,837.28	503.04	1,840.32	20	22.91	J-7137
J-7096	500	1,837.52	503.04	1,840.56	20	9.29	J-7092
J-2443	500	1,838.71	503.95	1,842.66	20.01	6.79	J-2453
J-765	500	1,839.00	503.59	1,842.59	20.03	0.87	J-1296
J-7915	500	1,839.07	503.04	1,842.11	20	0.87	J-1296
J-7647	500	1,841.09	503.04	1,844.13	20	13.13	J-7649
J-4370	500	1,841.15	504.45	1,845.60	20	23.22	J-2502
J-1201	500	1,841.33	500	1,841.33	20	0.87	J-1296
J-7594	500	1,841.52	503.04	1,844.56	21.63	0	J-7595
J-7983	500	1,841.77	503.04	1,844.81	20.04	6.49	J-8319
J-8301	500	1,844.33	500	1,844.33	20	20	J-8303
J-448	500	1,844.96	503.59	1,848.55	20.01	0.87	J-1296
J-7067	500	1,847.18	503.04	1,850.22	20	11.52	J-7092
J-8299	500	1,851.58	500	1,851.58	20	21.73	J-8298
J-8253	500	1,853.67	516.99	1,870.66	20.01	25.63	J-3038
J-7194	500	1,856.94	503.04	1,859.98	20	4.93	J-8058
J-4675	500	1,857.70	500	1,857.70	20	6.49	J-8319
J-5073	500	1,860.48	503.31	1,863.79	20.01	18.95	J-5074
J-4168	500	1,860.82	504.45	1,865.27	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7691	500	1,866.02	503.04	1,869.06	28.55	0	J-8222
J-4596	500	1,867.53	503.51	1,871.04	20	0.87	J-1296
J-521	500	1,867.65	503.59	1,871.24	20	0.87	J-1296
J-5132	500	1,870.15	504.59	1,874.74	20.01	18.47	J-166
J-2464	500	1,870.87	503.95	1,874.82	38.16	0	J-196
J-2239	500	1,872.01	503.95	1,875.96	20.02	0.87	J-1296
J-2535	500	1,872.89	503.95	1,876.84	20	14.62	J-2281
J-7159	500	1,876.59	503.04	1,879.63	20	7.18	J-8307
J-7171	500	1,877.72	503.04	1,880.76	24.95	0.01	J-8058
J-7643	500	1,878.94	503.04	1,881.98	20	18.95	J-7652
J-7955	500	1,879.82	503.04	1,882.86	20	0.87	J-1296
J-7952	500	1,880.83	503.04	1,883.87	20	0.87	J-1296
J-484	500	1,880.90	503.59	1,884.49	20	0.87	J-1296
J-8298	500	1,881.02	500	1,881.02	20	19.14	J-8299
J-8300	500	1,881.02	500	1,881.02	20	19.14	J-8303
J-7137	500	1,882.13	503.04	1,885.17	20	19.98	J-7133
J-4316	500	1,885.04	504.45	1,889.49	20	22.8	J-2502
J-753	500	1,885.84	503.59	1,889.43	20	0.87	J-1296
J-2284	500	1,886.07	503.95	1,890.02	20.01	10.43	J-2286
J-7030	500	1,888.08	503.04	1,891.12	20	21.09	J-7052
J-2462	500	1,889.59	503.95	1,893.54	20.02	0.87	J-1296
J-2393	500	1,890.83	503.95	1,894.78	20	13.88	J-2281
J-7169	500	1,893.05	503.04	1,896.09	20	4.01	J-8058
J-7170	500	1,894.59	503.04	1,897.63	25.75	0.01	J-8058
J-7596	500	1,896.10	503.04	1,899.14	20	7.49	J-7595
J-7044	500	1,899.71	503.04	1,902.75	20	18.45	J-7052
J-2404	500	1,900.01	503.95	1,903.96	20	13.87	J-2281
J-457	500	1,901.04	503.59	1,904.63	20	0.87	J-1296
J-2405	500	1,903.38	503.95	1,907.33	20	13.83	J-2281
J-2219	500	1,905.39	503.95	1,909.34	36.53	0	J-196
J-603	500	1,908.68	503.59	1,912.27	20.01	0.87	J-1296
J-2252	500	1,909.93	503.95	1,913.88	20	13.24	J-2281
J-523	500	1,911.04	503.59	1,914.63	20	0.87	J-1296
J-2444	500	1,911.36	503.95	1,915.31	20.02	5.94	J-2453
J-176	500	1,911.93	503.59	1,915.52	20.01	4.71	J-166
J-2025	500	1,913.74	503.95	1,917.69	20	0.87	J-1296
J-8297	500	1,913.78	500	1,913.78	20	19.14	J-8302
J-4536	500	1,914.58	504.45	1,919.03	20	20.37	J-2502
J-455	500	1,914.85	503.59	1,918.44	20	0.87	J-1296
J-2361	500	1,916.88	503.95	1,920.83	20.05	0.87	J-1296
J-8296	500	1,921.73	500	1,921.73	20	19.14	J-8303
J-341	500	1,923.86	503.59	1,927.45	21.97	0	J-320
J-2118	500	1,925.63	503.95	1,929.58	20	18.69	J-2281
J-770	500	1,927.51	503.59	1,931.10	20	0.87	J-1296
J-7186	500	1,927.70	503.04	1,930.74	39.24	0	J-8058
J-4012	500	1,928.27	504.45	1,932.72	20.01	6.49	J-8319
J-4013	500	1,928.80	504.45	1,933.25	20.01	6.49	J-8319
J-4679	500	1,929.60	500	1,929.60	20	6.49	J-8319
J-7739	500	1,929.80	503.04	1,932.84	20	0.87	J-1296
J-474	500	1,930.36	503.59	1,933.95	20	0.87	J-1296
J-841	500	1,931.73	503.59	1,935.32	20.01	0.87	J-1296
J-2460	500	1,932.79	503.95	1,936.74	20.02	0.87	J-1296
J-7176	500	1,941.64	503.04	1,944.68	26.78	0.01	J-8058
J-4232	500	1,944.01	504.45	1,948.46	20	24.27	J-2502
J-2417	500	1,945.71	503.95	1,949.66	20.01	14.08	J-2281
J-7051	500	1,947.05	503.04	1,950.09	20	16.53	J-7052
J-718	500	1,956.12	503.59	1,959.71	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4595	500	1,956.17	503.51	1,959.68	20	0.87	J-1296
J-4501	500	1,956.48	504.45	1,960.93	20	18.36	J-2502
J-4313	500	1,957.07	504.45	1,961.52	20	22.71	J-2502
J-7168	500	1,957.27	503.04	1,960.31	26.12	0.01	J-8058
J-2399	500	1,958.56	503.95	1,962.51	20	13.23	J-2281
J-7690	500	1,960.78	503.04	1,963.82	28.75	0	J-8222
J-7156	500	1,960.97	503.04	1,964.01	20	7.17	J-8307
J-174	500	1,961.26	503.59	1,964.85	20.02	2.94	J-166
J-495	500	1,962.65	503.59	1,966.24	20	0.87	J-1296
J-5097	500	1,966.15	503.31	1,969.46	20.01	15.91	J-166
J-2250	500	1,967.42	503.95	1,971.37	20	10.95	J-2281
J-2381	500	1,969.31	503.95	1,973.26	20	13.96	J-2508
J-227	500	1,969.79	503.59	1,973.38	20	0.87	J-1296
J-2024	500	1,969.88	503.95	1,973.83	64.15	0	J-2163
J-7187	500	1,969.91	503.04	1,972.95	30.55	0	J-8058
J-2371	500	1,974.11	503.95	1,978.06	20	13.93	J-2502
J-7189	500	1,975.50	503.04	1,978.54	23.4	0	J-8058
J-7644	500	1,975.65	503.04	1,978.69	20	10.31	J-7649
J-525	500	1,977.22	503.59	1,980.81	22.97	0	J-907
J-8316	500	1,978.78	500	1,978.78	20	0.87	J-1296
J-7748	500	1,980.15	503.04	1,983.19	20	0.87	J-1296
J-7780	500	1,981.30	503.04	1,984.34	20	0.8	J-7718
J-2447	500	1,983.81	503.95	1,987.76	20.02	4.22	J-2453
J-4639	500	1,984.53	500	1,984.53	20	0.87	J-1296
J-7193	500	1,987.62	503.04	1,990.66	28.44	0.01	J-8058
J-143	500	1,991.50	503.59	1,995.09	20	2.65	J-166
J-4637	500	1,991.75	502.8	1,994.55	20	0.87	J-1296
J-460	500	1,994.23	503.59	1,997.82	20	0.87	J-1296
J-4157	500	1,995.17	504.45	1,999.62	20	0.87	J-1296
J-473	500	1,995.34	503.59	1,998.93	20.02	0.87	J-1296
J-2349	500	1,996.17	503.95	2,000.12	49.8	0	J-2358
J-1083	500	1,998.73	503.59	2,002.32	20	0.87	J-1296
J-147	500	2,000.28	503.59	2,003.87	20.02	1.52	J-166
J-499	500	2,000.57	503.59	2,004.16	20	0.87	J-1296
J-524	500	2,001.65	503.59	2,005.24	20.01	0.87	J-1296
J-535	500	2,004.57	503.59	2,008.16	20.01	0.87	J-1296
J-7641	500	2,004.84	503.04	2,007.88	20	21.45	J-7655
J-4594	500	2,005.56	503.51	2,009.07	20	0.87	J-1296
J-4125	500	2,006.44	509.84	2,016.28	20	6.49	J-8319
J-4636	500	2,006.57	502.8	2,009.37	20	0.87	J-1296
J-4016	500	2,007.37	504.45	2,011.82	20	6.49	J-8319
J-4509	500	2,008.84	504.45	2,013.29	20	18.07	J-2502
J-4508	500	2,011.36	504.45	2,015.81	20	18.05	J-2502
J-5131	500	2,011.68	504.59	2,016.27	20.01	14.98	J-166
J-604	500	2,011.89	503.59	2,015.48	20	0.87	J-1296
J-458	500	2,013.48	503.59	2,017.07	20	0.87	J-1296
J-730	500	2,013.88	503.59	2,017.47	20	0.87	J-1296
J-4638	500	2,016.04	500	2,016.04	20	0.87	J-1296
J-7196	500	2,017.25	503.04	2,020.29	28.03	0.01	J-8058
J-7042	500	2,018.16	503.04	2,021.20	20	16.9	J-7052
J-571	500	2,019.23	503.59	2,022.82	20	0.87	J-1296
J-7610	500	2,024.96	503.04	2,028.00	20	25.2	J-8262
J-4631	500	2,027.46	500	2,027.46	20	0.87	J-1296
J-4010	500	2,030.04	504.45	2,034.49	20.01	6.49	J-8319
J-461	500	2,030.08	503.59	2,033.67	20	0.87	J-1296
J-2546	500	2,030.79	503.95	2,034.74	20	13.23	J-2281
J-826	500	2,031.21	503.59	2,034.80	73.78	0	J-262



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4270	500	2,032.05	504.45	2,036.50	20	15.45	J-4264
J-133	500	2,033.82	503.59	2,037.41	20	3.59	J-166
J-1157	500	2,037.38	503.59	2,040.97	20	0	J-320
J-7784	500	2,038.42	503.04	2,041.46	20	0.87	J-1296
J-182	500	2,041.50	503.59	2,045.09	20.18	0	J-166
J-4039	500	2,042.86	504.45	2,047.31	20.01	6.49	J-8319
J-2418	500	2,043.16	503.95	2,047.11	20.02	3.29	J-2453
J-477	500	2,044.14	503.59	2,047.73	20	0.87	J-1296
J-7177	500	2,046.01	503.04	2,049.05	29.26	0.02	J-8058
J-724	500	2,046.32	503.59	2,049.91	20	0.87	J-1296
J-2459	500	2,046.44	503.95	2,050.39	20.02	0.87	J-1296
J-145	500	2,048.84	503.59	2,052.43	20.42	0	J-166
J-2199	500	2,048.97	503.95	2,052.92	20	0.87	J-1296
J-4454	500	2,050.86	504.45	2,055.31	20	19.42	J-2502
J-1057	500	2,052.42	503.59	2,056.01	20	0.87	J-1296
J-8127	500	2,052.57	503.04	2,055.61	20	6.47	J-7102
J-4466	500	2,053.05	504.45	2,057.50	20	17.15	J-2502
J-4299	500	2,053.80	504.45	2,058.25	20	18.7	J-4298
J-4315	500	2,057.30	504.45	2,061.75	20	22.51	J-2502
J-2515	500	2,058.21	503.95	2,062.16	20	12.51	J-2281
J-827	500	2,058.31	503.59	2,061.90	65.64	0	J-262
J-1293	500	2,061.46	500	2,061.46	20.01	0.87	J-1296
J-4416	500	2,061.95	504.45	2,066.40	20	17.4	J-4417
J-2568	500	2,065.85	503.95	2,069.80	20	0.87	J-1296
J-2175	500	2,066.76	503.95	2,070.71	20	19.32	J-2184
J-3031	500	2,068.44	503.71	2,072.15	20	17.25	J-3038
J-4156	500	2,071.58	504.45	2,076.03	20	0.87	J-1296
J-7064	500	2,073.54	503.04	2,076.58	20	8.79	J-7092
J-7132	500	2,074.16	503.04	2,077.20	20	19.18	J-7133
J-7753	500	2,075.90	503.04	2,078.94	20	0.87	J-1296
J-4204	500	2,076.51	504.45	2,080.96	20	23.44	J-2502
J-140	500	2,076.53	503.59	2,080.12	20	0.2	J-166
J-4246	500	2,077.28	504.45	2,081.73	20	24.09	J-2502
J-511	500	2,077.45	503.59	2,081.04	20	0.87	J-1296
J-2517	500	2,077.65	503.95	2,081.60	20	12.34	J-2281
J-8094	500	2,079.58	503.04	2,082.62	20	6.49	J-8319
J-4435	500	2,080.28	504.45	2,084.73	20	20.77	J-2502
J-7031	500	2,084.50	503.04	2,087.54	20	16.78	J-7052
J-7944	500	2,084.64	503.04	2,087.68	20	0.87	J-1296
J-4305	500	2,085.28	504.45	2,089.73	20	22.52	J-2502
J-7098	500	2,087.14	503.04	2,090.18	20	0.32	J-7102
J-4425	500	2,088.36	504.45	2,092.81	20	22.46	J-2502
J-2654	500	2,089.10	500	2,089.10	20	0.87	J-1296
J-544	500	2,089.34	503.59	2,092.93	20.01	0.87	J-1296
J-2256	500	2,089.91	503.95	2,093.86	20.01	11.92	J-2281
J-7157	500	2,090.55	503.04	2,093.59	20.33	0	J-7158
J-8295	500	2,090.66	500	2,090.66	20	17.41	J-8303
J-748	500	2,090.86	503.59	2,094.45	20	0.87	J-1296
J-2397	500	2,092.17	503.95	2,096.12	20	9.75	J-2398
J-2394	500	2,093.52	503.95	2,097.47	20	11.9	J-2281
J-7100	500	2,095.63	503.04	2,098.67	23.46	0	J-7102
J-4009	500	2,096.13	504.45	2,100.58	20.01	6.49	J-8319
J-4630	500	2,096.87	500	2,096.87	20	0.87	J-1296
J-487	500	2,097.52	503.59	2,101.11	20	0.87	J-1296
J-2392	500	2,097.57	503.95	2,101.52	20	11.86	J-2281
J-7180	500	2,101.70	503.04	2,104.74	41.51	0	J-8058
J-4426	500	2,102.91	504.45	2,107.36	20	19.17	J-4425

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-471	500	2,103.35	503.59	2,106.94	20	0.87	J-1296
J-8292	500	2,104.87	500	2,104.87	20	22.46	J-8291
J-581	500	2,105.46	503.59	2,109.05	20	0.87	J-1296
J-2196	500	2,107.77	503.95	2,111.72	20	0.87	J-1296
J-496	500	2,108.75	503.59	2,112.34	20	0.87	J-1296
J-7063	500	2,109.91	503.04	2,112.95	20	16.41	J-7092
J-4593	500	2,110.47	503.51	2,113.98	20	0.87	J-1296
J-8294	500	2,110.79	500	2,110.79	20	17.41	J-8302
J-1292	500	2,111.47	500	2,111.47	20.01	0.87	J-1296
J-4059	500	2,111.80	504.45	2,116.25	20	6.49	J-8319
J-134	500	2,112.52	503.59	2,116.11	21.29	0	J-166
J-7841	500	2,115.27	503.04	2,118.31	20	0.87	J-1296
J-4060	500	2,119.34	504.45	2,123.79	20	6.49	J-8319
J-600	500	2,119.86	503.59	2,123.45	20	0.87	J-1296
J-4275	500	2,119.87	504.45	2,124.32	20	15.55	J-4264
J-4046	500	2,119.92	504.45	2,124.37	20	6.49	J-8319
J-7914	500	2,120.36	503.04	2,123.40	20	0.87	J-1296
J-4090	500	2,120.65	504.45	2,125.10	20	0.87	J-1296
J-4011	500	2,121.74	504.45	2,126.19	20.01	6.49	J-8319
J-2222	500	2,122.69	503.95	2,126.64	20.02	0.87	J-1296
J-4447	500	2,124.57	504.45	2,129.02	20	16.33	J-4446
J-2602	500	2,127.66	503.95	2,131.61	20.05	0.87	J-1296
J-1291	500	2,128.94	500	2,128.94	20.01	0.87	J-1296
J-812	500	2,130.12	503.59	2,133.71	20.02	0.37	J-262
J-828	500	2,130.45	503.59	2,134.04	26.13	0	J-262
J-2391	500	2,130.76	503.95	2,134.71	20	11.32	J-2395
J-1135	500	2,132.84	503.59	2,136.43	20.02	6.49	J-8319
J-829	500	2,133.27	503.59	2,136.86	73.53	0	J-262
J-7642	500	2,137.09	503.04	2,140.13	20	13.27	J-7652
J-7608	500	2,139.31	503.04	2,142.35	20	24.08	J-8262
J-5004	500	2,139.47	503.31	2,142.78	20	38.43	J-5003
J-1213	500	2,141.31	500	2,141.31	20	0.87	J-1296
J-823	500	2,142.41	503.59	2,146.00	38.67	0	J-262
J-2257	500	2,143.05	503.95	2,147.00	20	11.38	J-2281
J-4457	500	2,143.69	504.45	2,148.14	20	19.01	J-2502
J-8293	500	2,144.74	500	2,144.74	20	17.41	J-8303
J-4574	500	2,145.28	504.45	2,149.73	20	22.96	J-2502
J-8141	500	2,146.09	592.4	2,238.49	25.37	0	J-7102
J-7764	500	2,146.47	503.04	2,149.51	20	0.79	J-7718
J-2233	500	2,149.87	503.95	2,153.82	20.02	0.87	J-1296
J-2495	500	2,150.40	503.95	2,154.35	20	7.71	J-2502
J-1199	500	2,151.04	503.59	2,154.63	20	0.87	J-1296
J-4674	500	2,151.30	500	2,151.30	20	0.87	J-1296
J-4444	500	2,151.80	504.45	2,156.25	20	19.75	J-2502
J-8291	500	2,152.60	500	2,152.60	20	20	J-8292
J-7027	500	2,152.84	503.04	2,155.88	20.02	18.01	J-7092
J-2652	500	2,154.21	500	2,154.21	48.42	0	J-2358
J-2653	500	2,154.21	500	2,154.21	47.26	0	J-2358
J-716	500	2,155.30	503.59	2,158.89	20	0.87	J-1296
J-462	500	2,155.32	503.59	2,158.91	20	0.87	J-1296
J-7843	500	2,155.56	503.04	2,158.60	20	0.87	J-1296
J-7912	500	2,157.61	503.04	2,160.65	20	0.87	J-1296
J-2023	500	2,159.24	503.95	2,163.19	61.55	0.02	J-2163
J-4008	500	2,159.76	504.45	2,164.21	20.01	6.49	J-8319
J-4342	500	2,161.09	504.45	2,165.54	20	22.03	J-2502
J-550	500	2,164.49	503.59	2,168.08	20	0.87	J-1296
J-4390	500	2,165.05	504.45	2,169.50	20	23.81	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4450	500	2,165.27	504.45	2,169.72	20	19.55	J-2502
J-8262	500	2,165.41	500	2,165.41	20	21.02	J-8261
J-2416	500	2,166.50	503.95	2,170.45	20.02	7.1	J-2453
J-4007	500	2,166.56	504.45	2,171.01	20.01	6.49	J-8319
J-7107	500	2,168.68	503.04	2,171.72	25.54	0	J-7102
J-2501	500	2,174.52	503.95	2,178.47	25.97	0.01	J-2502
J-8261	500	2,175.33	500	2,175.33	20	22.87	J-8262
J-630	500	2,176.21	503.59	2,179.80	20	0.87	J-1296
J-7055	500	2,176.36	503.04	2,179.40	20	14.83	J-7092
J-2377	500	2,176.41	503.95	2,180.36	20	12.04	J-2508
J-6015	500	2,176.64	502.76	2,179.40	20	0.87	J-1296
J-8265	500	2,177.69	500	2,177.69	20	21.1	J-8262
J-7120	500	2,185.24	503.04	2,188.28	25.01	0	J-7102
J-682	500	2,186.34	503.59	2,189.93	20	0.87	J-1296
J-4408	500	2,187.40	504.45	2,191.85	20	23.58	J-2502
J-564	500	2,188.19	503.59	2,191.78	20	0.87	J-1296
J-7751	500	2,189.38	503.04	2,192.42	20	0.87	J-1296
J-1228	500	2,190.49	500	2,190.49	20	0.87	J-1296
J-7040	500	2,192.25	503.04	2,195.29	20	12.67	J-7052
J-8320	500	2,192.49	500	2,192.49	20	0.87	J-1296
J-8235	500	2,193.83	500	2,193.83	20.06	0	J-7718
J-7151	500	2,195.94	503.04	2,198.98	20	7.14	J-8307
J-7022	500	2,197.15	503.04	2,200.19	20	17.78	J-7052
J-4424	500	2,197.93	504.45	2,202.38	20	22.21	J-2502
J-7842	500	2,198.88	503.04	2,201.92	20	0.87	J-1296
J-4655	500	2,199.69	511.03	2,210.72	20.01	6.49	J-8319
J-717	500	2,201.73	503.59	2,205.32	20	0.87	J-1296
J-2396	500	2,202.79	503.95	2,206.74	20	3.13	J-2398
J-7845	500	2,203.84	503.04	2,206.88	20	0.87	J-1296
J-4081	500	2,205.66	504.45	2,210.11	20	0.87	J-1296
J-4100	500	2,206.70	504.45	2,211.15	20	0.87	J-1296
J-8252	500	2,208.60	516.99	2,225.59	20.02	18.46	J-7052
J-849	500	2,208.70	503.59	2,212.29	20	0.87	J-1296
J-2348	500	2,210.24	503.95	2,214.19	43.85	0	J-2358
J-8264	500	2,210.65	500	2,210.65	20	20.18	J-8262
J-4678	500	2,212.25	500	2,212.25	20.01	6.49	J-8319
J-7834	500	2,214.85	503.04	2,217.89	20	0.87	J-1296
J-8251	500	2,215.78	503.04	2,218.82	20	18.3	J-7052
J-483	500	2,217.24	503.59	2,220.83	20	0.87	J-1296
J-2002	500	2,219.27	503.95	2,223.22	20	0.87	J-1296
J-992	500	2,220.57	503.59	2,224.16	20	0.87	J-1296
J-2227	500	2,221.30	503.95	2,225.25	20.02	0.87	J-1296
J-4642	500	2,222.60	504.45	2,227.05	20	15.85	J-2502
J-7050	500	2,223.38	503.04	2,226.42	20	14.08	J-7092
J-4290	500	2,223.44	504.45	2,227.89	20	15.58	J-4264
J-7123	500	2,223.51	503.04	2,226.55	20	12.66	J-7102
J-7754	500	2,223.86	503.04	2,226.90	20	0.81	J-7718
J-8290	500	2,226.56	500	2,226.56	20	17.41	J-8303
J-3066	500	2,229.52	507.7	2,237.22	20	6.49	J-8319
J-1238	500	2,229.54	503.59	2,233.13	20	0.87	J-1296
J-4372	500	2,229.84	504.45	2,234.29	20	13.94	J-4373
J-4154	500	2,231.26	504.45	2,235.71	20	0.87	J-1296
J-479	500	2,231.66	503.59	2,235.25	20	0.87	J-1296
J-2000	500	2,232.21	503.95	2,236.16	39.9	0	J-2358
J-8263	500	2,235.54	500	2,235.54	20	19.19	J-8262
J-8236	500	2,236.06	500	2,236.06	27.54	0	J-7718
J-4635	500	2,237.53	500	2,237.53	20	0.63	J-4641

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-8266	500	2,239.81	500	2,239.81	20	17.32	J-8265
J-7119	500	2,243.37	503.04	2,246.41	22.42	0	J-7102
J-2503	500	2,244.39	503.95	2,248.34	38.02	0	J-2502
J-8260	500	2,244.62	500	2,244.62	20	22.33	J-8259
J-4481	500	2,248.67	504.45	2,253.12	20	18.65	J-2502
J-465	500	2,251.54	503.59	2,255.13	20	0.87	J-1296
J-4629	500	2,251.92	500	2,251.92	20	0.51	J-4641
J-2340	500	2,253.22	503.95	2,257.17	20	0.87	J-1296
J-781	500	2,254.00	503.59	2,257.59	20	0.87	J-1296
J-8218	500	2,254.90	515.28	2,270.18	20	15.3	J-7102
J-7809	500	2,254.94	503.04	2,257.98	20	18.39	J-8262
J-7061	500	2,255.32	503.04	2,258.36	20	12.73	J-7092
J-7801	500	2,256.87	503.04	2,259.91	30.85	0	J-7718
J-8289	500	2,256.94	500	2,256.94	20	17.41	J-8302
J-830	500	2,261.17	503.59	2,264.76	73	0	J-262
J-464	500	2,261.84	503.59	2,265.43	20	0.87	J-1296
J-7062	500	2,265.77	503.04	2,268.81	20	12.44	J-7092
J-7909	500	2,269.29	503.04	2,272.33	20	0.81	J-7718
J-4044	500	2,269.83	504.45	2,274.29	20.01	6.49	J-8319
J-4266	500	2,270.82	504.45	2,275.27	20	15.27	J-4264
J-5113	500	2,273.34	503.31	2,276.65	38.19	0	J-5122
J-7785	500	2,275.14	503.04	2,278.18	32.45	0	J-7718
J-4307	500	2,276.01	504.45	2,280.46	20	22.09	J-2502
J-2644	500	2,279.37	500	2,279.37	45.12	0.01	J-2163
J-2645	500	2,279.37	500	2,279.37	44.8	0.01	J-2163
J-2647	500	2,279.99	500	2,279.99	36.38	0	J-2163
J-2649	500	2,279.99	500	2,279.99	40.2	0	J-2163
J-2650	500	2,279.99	500	2,279.99	39.31	0	J-2163
J-2646	500	2,280.00	500	2,280.00	43.03	0	J-2163
J-2648	500	2,280.00	500	2,280.00	41.49	0	J-2163
J-7787	500	2,280.67	503.04	2,283.71	30.24	0	J-7718
J-848	500	2,280.77	503.59	2,284.36	20	0.87	J-1296
J-4235	500	2,283.00	504.45	2,287.45	20	22.76	J-2502
J-7178	500	2,283.61	503.04	2,286.65	46.44	0	J-8058
J-2626	500	2,283.69	536.67	2,320.36	42.89	0	J-2358
J-8287	500	2,285.35	500	2,285.35	20	21.6	J-8286
J-8062	500	2,285.52	503.04	2,288.56	46.46	0	J-8058
J-2390	500	2,285.94	503.95	2,289.89	20	3.13	J-2395
J-4155	500	2,286.12	504.45	2,290.57	20	0.87	J-1296
J-4652	500	2,286.31	505.03	2,291.34	20	6.49	J-8319
J-2407	500	2,286.34	503.95	2,290.29	20	10.08	J-2281
J-4050	500	2,288.08	504.45	2,292.53	20.01	6.49	J-8319
J-8259	500	2,289.28	500	2,289.28	20	21.17	J-8261
J-574	500	2,290.29	503.59	2,293.88	20	0.87	J-1296
J-7835	500	2,291.50	503.04	2,294.54	20	0.87	J-1296
J-4005	500	2,291.95	504.45	2,296.40	20.01	6.49	J-8319
J-7776	500	2,292.06	503.04	2,295.10	20	0.07	J-7718
J-5000	500	2,292.12	503.31	2,295.43	20	36.29	J-5004
J-8237	500	2,293.06	500	2,293.06	28.81	0	J-7718
J-463	500	2,294.01	503.59	2,297.60	20	0.87	J-1296
J-4001	500	2,296.64	504.45	2,301.09	20.02	6.49	J-8319
J-7871	500	2,297.76	503.04	2,300.80	20	0.87	J-1296
J-7155	500	2,297.96	503.04	2,301.00	24.7	0	J-7158
J-7640	500	2,299.57	503.04	2,302.60	20	16.32	J-7655
J-404	500	2,304.95	503.59	2,308.54	20	6.49	J-8319
J-2376	500	2,305.75	503.95	2,309.70	20	10.79	J-2502
J-4344	500	2,306.38	504.45	2,310.83	20	21.78	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-592	500	2,306.94	503.59	2,310.53	20	0.87	J-1296
J-7056	500	2,307.06	503.04	2,310.10	20	11.05	J-7092
J-2289	500	2,310.62	503.95	2,314.57	20	6.59	J-2292
J-4075	500	2,311.43	504.45	2,315.88	20	0.87	J-1296
J-1056	500	2,311.75	503.59	2,315.34	20	0.87	J-1296
J-4628	500	2,312.11	500	2,312.11	31.6	0	J-4641
J-4006	500	2,313.49	504.45	2,317.94	20.02	6.49	J-8319
J-2003	500	2,314.05	503.95	2,318.00	42.75	0	J-2358
J-2004	500	2,314.05	503.95	2,318.00	41.62	0	J-2358
J-2339	500	2,315.32	503.95	2,319.27	20	0.87	J-1296
J-2458	500	2,315.69	503.95	2,319.64	20	0.87	J-1296
J-4592	500	2,316.47	503.51	2,319.98	20	0.87	J-1296
J-482	500	2,317.73	503.59	2,321.32	20	0.87	J-1296
J-8286	500	2,318.16	500	2,318.16	20	20	J-8287
J-547	500	2,319.97	503.59	2,323.56	20	0.87	J-1296
J-2670	500	2,320.36	500	2,320.36	20	0.87	J-1296
J-132	500	2,322.12	503.59	2,325.71	20	6.49	J-8319
J-7013	500	2,322.77	503.04	2,325.81	20	15.87	J-7052
J-7775	500	2,323.32	503.04	2,326.36	35.77	0	J-7718
J-4627	500	2,325.17	500	2,325.17	31.6	0	J-4641
J-7025	500	2,325.39	503.04	2,328.43	20	13.38	J-7052
J-2500	500	2,327.04	503.95	2,330.99	20.7	0	J-2502
J-2494	500	2,327.60	503.95	2,331.55	20.01	8.36	J-2502
J-2034	500	2,327.77	503.95	2,331.72	41.08	0	J-2163
J-4657	500	2,328.42	505.46	2,333.88	20.01	6.49	J-8319
J-402	500	2,328.65	503.59	2,332.24	20	6.49	J-8319
J-7057	500	2,328.84	503.04	2,331.88	20	10.73	J-7102
J-549	500	2,328.96	503.59	2,332.55	20	0.87	J-1296
J-7954	500	2,329.12	503.04	2,332.16	20	0.87	J-1296
J-4153	500	2,330.76	504.45	2,335.21	20	0.87	J-1296
J-7837	500	2,331.73	503.04	2,334.77	20	0.87	J-1296
J-7038	500	2,332.31	503.04	2,335.35	20	13.98	J-7052
J-2559	500	2,336.58	503.95	2,340.53	20	0.87	J-1296
J-1227	500	2,343.76	500	2,343.76	20	0.87	J-1296
J-7028	500	2,344.04	503.04	2,347.08	20	12.96	J-7092
J-4223	500	2,345.42	504.45	2,349.87	20	22.2	J-2502
J-7771	500	2,346.47	503.04	2,349.51	35.8	0	J-7718
J-7032	500	2,348.16	503.04	2,351.20	20	10.8	J-7052
J-7153	500	2,350.99	503.04	2,354.03	26.19	0	J-8058
J-4051	500	2,352.73	504.45	2,357.18	20.02	6.49	J-8319
J-7703	500	2,353.22	503.04	2,356.26	20	0.2	J-7718
J-7389	500	2,353.56	503.04	2,356.60	25.49	0	J-8222
J-1075	500	2,353.79	503.59	2,357.38	69.06	0	J-262
J-4136	500	2,354.90	504.45	2,359.35	20	6.49	J-8319
J-7795	500	2,356.62	503.04	2,359.66	42.32	0	J-7718
J-611	500	2,356.80	503.59	2,360.39	20	0.87	J-1296
J-1085	500	2,358.08	503.59	2,361.67	20	0.87	J-1296
J-2008	500	2,360.90	503.95	2,364.85	20	0.87	J-1296
J-4169	500	2,362.22	504.45	2,366.67	20	0.87	J-1296
J-7768	500	2,363.19	503.04	2,366.23	34.09	0	J-7718
J-4277	500	2,363.59	504.45	2,368.04	20	16.34	J-4264
J-7957	500	2,363.77	503.04	2,366.81	20	0.87	J-1296
J-4042	500	2,363.99	504.45	2,368.44	20.01	6.49	J-8319
J-8255	500	2,364.18	503.04	2,367.22	20.01	1.84	J-7010
J-4289	500	2,364.79	504.45	2,369.24	20	14.07	J-4264
J-7015	500	2,367.68	503.04	2,370.72	20	14.45	J-7052
J-782	500	2,369.17	503.59	2,372.76	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7012	500	2,370.55	503.04	2,373.59	20	15.01	J-7052
J-4423	500	2,374.11	504.45	2,378.56	20	21.78	J-2502
J-403	500	2,376.19	503.59	2,379.78	20	6.49	J-8319
J-7004	500	2,376.84	503.04	2,379.88	20.01	1.84	J-7010
J-831	500	2,378.23	503.59	2,381.82	69.05	0	J-262
J-4650	500	2,378.64	505.03	2,383.67	20	6.49	J-8319
J-2620	500	2,379.41	503.95	2,383.36	20	10.19	J-2502
J-7037	500	2,379.50	503.04	2,382.54	20	12.52	J-7052
J-4265	500	2,382.87	504.45	2,387.32	20	10.18	J-4264
J-2235	500	2,383.41	503.95	2,387.36	20	0.87	J-1296
J-2260	500	2,383.52	503.95	2,387.47	20	8.75	J-2281
J-7045	500	2,388.98	503.04	2,392.02	20	10.84	J-7092
J-2304	500	2,389.68	503.95	2,393.63	20	14.95	J-2502
J-2617	500	2,389.85	503.95	2,393.80	20	0.87	J-1296
J-2005	500	2,391.46	503.95	2,395.41	47.59	0	J-2358
J-4058	500	2,391.85	504.45	2,396.30	20.01	6.49	J-8319
J-4380	500	2,392.18	504.45	2,396.63	20	19.13	J-4381
J-548	500	2,394.17	503.59	2,397.76	20	0.87	J-1296
J-7019	500	2,395.00	503.04	2,398.04	20	13.95	J-7052
J-2176	500	2,401.28	503.95	2,405.23	22.94	0	J-2184
J-7026	500	2,402.49	503.04	2,405.53	20	12.4	J-7052
J-7023	500	2,402.82	503.04	2,405.86	20	12.82	J-7052
J-7840	500	2,405.06	503.04	2,408.10	20	0.87	J-1296
J-2231	500	2,405.38	503.95	2,409.33	20	0.87	J-1296
J-7702	500	2,406.49	503.04	2,409.53	24.94	0	J-7718
J-4119	500	2,406.71	513.55	2,420.26	20	6.49	J-8319
J-573	500	2,407.29	503.59	2,410.88	20	0.87	J-1296
J-926	500	2,409.58	503.59	2,413.17	21.32	0	J-886
J-4400	500	2,410.43	504.45	2,414.88	20	18.27	J-4401
J-7756	500	2,411.17	503.04	2,414.21	20	0.41	J-7718
J-2246	500	2,412.46	503.95	2,416.41	20.01	7.22	J-2281
J-7913	500	2,413.46	503.04	2,416.50	20	0.76	J-7718
J-8285	500	2,414.07	500	2,414.07	20.01	19.35	J-8302
J-7806	500	2,416.50	503.04	2,419.54	29.59	0	J-7718
J-4057	500	2,417.57	504.45	2,422.02	20.01	6.49	J-8319
J-2347	500	2,419.88	503.95	2,423.83	20.01	0.87	J-1296
J-493	500	2,420.26	503.59	2,423.85	20	0.87	J-1296
J-4367	500	2,422.12	504.45	2,426.57	20	20	J-4368
J-7807	500	2,423.00	503.04	2,426.04	29.57	0	J-7718
J-7018	500	2,424.56	503.04	2,427.60	20	13.4	J-7052
J-2669	500	2,427.15	500	2,427.15	20	0.87	J-1296
J-4249	500	2,427.67	504.45	2,432.12	20	23.46	J-4242
J-7017	500	2,428.90	503.04	2,431.94	20	13.35	J-7052
J-8288	500	2,429.29	500	2,429.29	20.01	17.41	J-8303
J-4626	500	2,430.46	500	2,430.46	29	0	J-4641
J-2499	500	2,430.91	503.95	2,434.86	20	0.87	J-1296
J-671	500	2,431.14	503.59	2,434.73	58.63	0.01	J-262
J-8064	500	2,434.35	503.04	2,437.39	32.45	0	J-8058
J-8063	500	2,434.36	503.04	2,437.40	46.55	0	J-8058
J-7767	500	2,436.17	503.04	2,439.21	36.78	0	J-7718
J-2663	500	2,436.68	500	2,436.68	29.34	0.01	J-2358
J-2661	500	2,436.78	500	2,436.78	41.53	0.01	J-2358
J-2660	500	2,436.83	500	2,436.83	42.25	0.01	J-2358
J-2662	500	2,437.09	500	2,437.09	34.92	0.01	J-2358
J-2664	500	2,437.49	500	2,437.49	24.44	0	J-2358
J-4535	500	2,437.53	504.45	2,441.98	20	18.17	J-2502
J-405	500	2,439.42	503.59	2,443.01	20	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4040	500	2,442.10	504.45	2,446.55	20.01	6.49	J-8319
J-4559	500	2,442.89	504.45	2,447.34	20	21.88	J-2502
J-4347	500	2,445.59	504.45	2,450.04	20	21.15	J-2502
J-4038	500	2,446.15	504.45	2,450.60	20.01	6.49	J-8319
J-4365	500	2,447.22	504.45	2,451.67	20	21.9	J-2502
J-1134	500	2,451.83	503.59	2,455.42	20	6.49	J-8319
J-4098	500	2,455.75	504.45	2,460.20	20	0.87	J-1296
J-8284	500	2,456.60	500	2,456.60	20.01	17.41	J-8302
J-7029	500	2,459.32	503.04	2,462.36	20	8.23	J-7052
J-2412	500	2,462.88	503.95	2,466.83	21.65	0	J-2453
J-2298	500	2,463.58	503.95	2,467.53	20.01	9.34	J-2502
J-4037	500	2,464.78	504.45	2,469.23	20.02	6.49	J-8319
J-3032	500	2,466.27	503.71	2,469.98	35.93	0	J-3038
J-7759	500	2,466.56	503.04	2,469.60	20	0.27	J-7718
J-4036	500	2,469.17	504.45	2,473.62	20.02	6.49	J-8319
J-4656	500	2,469.34	505.46	2,474.80	20.01	6.49	J-8319
J-7131	500	2,476.29	503.04	2,479.33	20.01	12.61	J-7133
J-4165	500	2,476.59	504.45	2,481.04	20	0.87	J-1296
J-5096	500	2,478.83	503.31	2,482.14	20	0.85	J-166
J-2337	500	2,480.32	503.95	2,484.27	20.01	6.49	J-8319
J-4451	500	2,480.52	504.45	2,484.97	20	10.43	J-4446
J-7024	500	2,483.92	503.04	2,486.96	20	9.33	J-7052
J-4052	500	2,484.62	504.45	2,489.07	20.02	6.49	J-8319
J-4054	500	2,486.03	504.45	2,490.48	20.02	6.49	J-8319
J-4053	500	2,486.40	504.45	2,490.85	20.02	6.49	J-8319
J-4004	500	2,487.61	504.45	2,492.06	20.02	6.49	J-8319
J-2224	500	2,488.56	503.95	2,492.51	20	0.87	J-1296
J-7593	500	2,489.57	503.04	2,492.61	20.03	8.42	J-7595
J-2120	500	2,491.96	503.95	2,495.91	46.18	0.01	J-2163
J-4003	500	2,497.26	504.45	2,501.71	20.02	6.49	J-8319
J-4548	500	2,497.29	504.45	2,501.74	20	14.25	J-4446
J-4097	500	2,497.85	504.45	2,502.30	20	0.87	J-1296
J-4240	500	2,498.27	504.45	2,502.72	20	18.7	J-4574
J-3051	500	2,498.83	503.71	2,502.54	35.93	0	J-3038
J-7796	500	2,499.55	503.04	2,502.59	39.14	0	J-7718
J-2234	500	2,499.63	503.95	2,503.58	20	0.87	J-1296
J-2007	500	2,500.11	503.95	2,504.06	32.35	0.01	J-2358
J-7020	500	2,500.76	503.04	2,503.80	20	10.66	J-7052
J-4088	500	2,501.80	504.45	2,506.25	20	0.87	J-1296
J-4445	500	2,501.84	504.45	2,506.29	20	11.04	J-4446
J-726	500	2,503.47	503.59	2,507.06	20	0.87	J-1296
J-7122	500	2,505.42	503.04	2,508.46	21.53	0	J-7102
J-4002	500	2,506.86	504.45	2,511.31	20.02	6.49	J-8319
J-4259	500	2,508.28	504.45	2,512.73	20	21.73	J-4260
J-2572	500	2,508.48	503.95	2,512.43	20	22.26	J-2502
J-4326	500	2,509.18	504.45	2,513.63	20	20.72	J-2502
J-7763	500	2,510.73	503.04	2,513.77	57.22	0	J-7718
J-7021	500	2,511.34	503.04	2,514.38	20	10.93	J-7052
J-2571	500	2,512.17	503.95	2,516.12	20	22.26	J-2502
J-4247	500	2,513.77	504.45	2,518.22	20	23.27	J-4264
J-4658	500	2,513.88	505.46	2,519.34	20.01	6.49	J-8319
J-4173	500	2,514.81	504.45	2,519.26	20	0.87	J-1296
J-729	500	2,521.61	503.59	2,525.20	20	0.87	J-1296
J-1055	500	2,522.28	503.59	2,525.87	20	0.87	J-1296
J-4325	500	2,524.42	504.45	2,528.87	20	20.84	J-2502
J-4041	500	2,525.57	504.45	2,530.02	20.02	6.49	J-8319
J-2543	500	2,528.91	503.95	2,532.86	20.01	8.38	J-2281

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-3014	500	2,532.14	503.71	2,535.85	20.07	0.02	J-3018
J-563	500	2,532.39	503.59	2,535.98	20	0.87	J-1296
J-2018	500	2,532.85	503.95	2,536.80	28.34	0.01	J-2358
J-2017	500	2,533.28	503.95	2,537.23	35.88	0.01	J-2358
J-8258	500	2,539.55	500	2,539.55	20.03	15	J-8259
J-2290	500	2,540.67	503.95	2,544.62	20	5.98	J-2282
J-2505	500	2,540.72	503.95	2,544.67	55.07	0	J-2502
J-7762	500	2,541.80	503.04	2,544.84	52.07	0	J-7718
J-2603	500	2,543.77	503.95	2,547.72	29.03	0	J-381
J-7033	500	2,544.07	503.04	2,547.11	20	7.34	J-7052
J-2539	500	2,548.69	503.95	2,552.64	20.01	8.16	J-2281
J-4404	500	2,549.45	504.45	2,553.90	20	22.43	J-2502
J-7149	500	2,551.97	503.04	2,555.01	20	4.62	J-8058
J-4032	500	2,552.03	504.45	2,556.48	20	6.49	J-8319
J-4254	500	2,554.06	504.45	2,558.51	20	22.59	J-4264
J-4147	500	2,557.66	504.45	2,562.11	20	0.87	J-1296
J-4617	500	2,559.43	500	2,559.43	20	6.49	J-8319
J-7179	500	2,559.62	503.04	2,562.66	49.69	0	J-8058
J-200	500	2,561.04	503.59	2,564.63	55.48	0	J-220
J-8061	500	2,562.13	503.04	2,565.17	49.79	0	J-8058
J-2236	500	2,562.46	503.95	2,566.41	20	0.87	J-1296
J-4541	500	2,563.43	504.45	2,567.88	20	17.07	J-2502
J-3012	500	2,563.45	503.71	2,567.16	20	4.15	J-3018
J-4312	500	2,564.97	504.45	2,569.42	20	19.14	J-4313
J-2668	500	2,564.99	500	2,564.99	20	0.87	J-1296
J-2403	500	2,565.41	503.95	2,569.36	20.01	7.06	J-2281
J-2538	500	2,566.35	503.95	2,570.30	20.01	7.99	J-2281
J-1287	500	2,567.26	515.65	2,582.91	20	6.49	J-8319
J-7034	500	2,568.54	503.04	2,571.58	20	6.41	J-7052
J-927	500	2,569.05	503.59	2,572.64	21.83	0	J-886
J-1226	500	2,569.15	500	2,569.15	30.96	0	J-886
J-225	500	2,569.30	503.59	2,572.89	35.46	0.01	J-220
J-226	500	2,569.47	503.59	2,573.06	28.26	0	J-220
J-2481	500	2,569.49	503.95	2,573.44	27.39	0	J-220
J-2480	500	2,569.53	503.95	2,573.48	21.12	0	J-220
J-732	500	2,569.98	503.59	2,573.57	20	0.87	J-1296
J-2300	500	2,571.71	503.95	2,575.66	20	8.23	J-2502
J-7889	500	2,573.30	503.04	2,576.34	35.35	0	J-7718
J-4619	500	2,574.05	500	2,574.05	20	6.49	J-8319
J-7150	500	2,574.10	503.04	2,577.14	20	3.24	J-8058
J-4393	500	2,574.23	504.45	2,578.68	20	23.1	J-2502
J-4056	500	2,574.26	504.45	2,578.71	20.02	6.49	J-8319
J-4659	500	2,574.43	504.45	2,578.88	20.02	6.49	J-8319
J-4238	500	2,574.54	504.45	2,578.99	20	22.11	J-2502
J-7036	500	2,575.00	503.04	2,578.04	20	6.72	J-7092
J-4369	500	2,575.52	504.45	2,579.97	20	20	J-4370
J-6013	500	2,576.68	502.76	2,579.44	20	0.2	J-7718
J-4591	500	2,578.44	503.51	2,581.95	20	0.87	J-1296
J-2225	500	2,582.93	503.95	2,586.88	20	0.87	J-1296
J-7154	500	2,583.75	503.04	2,586.79	48.21	0	J-8058
J-7016	500	2,587.32	503.04	2,590.36	20	9.53	J-7052
J-7035	500	2,587.86	503.04	2,590.90	20	5.6	J-7092
J-7760	500	2,588.26	503.04	2,591.30	32.29	0	J-7718
J-7761	500	2,588.53	503.04	2,591.57	23.8	0	J-7718
J-3015	500	2,591.73	503.71	2,595.44	24.79	0	J-3018
J-4314	500	2,591.97	504.45	2,596.42	20	19.14	J-4315
J-5128	500	2,593.75	503.31	2,597.06	20	15.54	J-5126



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7758	500	2,595.44	503.04	2,598.48	30.17	0	J-7718
J-4234	500	2,595.56	504.45	2,600.01	20	22.11	J-2502
J-929	500	2,596.48	503.59	2,600.07	23.67	0.01	J-886
J-4015	500	2,596.86	504.45	2,601.31	20.01	6.49	J-8319
J-4257	500	2,596.98	504.45	2,601.43	20	9.18	J-4258
J-1286	500	2,597.34	500.16	2,597.50	20	6.49	J-8319
J-4673	500	2,598.14	500	2,598.14	20	0.87	J-1296
J-7930	500	2,598.56	503.04	2,601.60	50.43	0	J-7718
J-2022	500	2,599.94	503.95	2,603.89	51.72	0	J-381
J-4660	500	2,600.32	504.45	2,604.77	20.02	6.49	J-8319
J-4644	500	2,600.58	500	2,600.58	20	0.87	J-1296
J-4651	500	2,601.80	505.03	2,606.83	20	6.49	J-8319
J-7752	500	2,605.06	503.04	2,608.10	20	0.05	J-7718
J-7832	500	2,605.53	503.04	2,608.57	20	0.33	J-7824
J-7931	500	2,607.06	503.04	2,610.10	50.44	0	J-7718
J-7615	500	2,609.24	503.04	2,612.28	20	19.97	J-7641
J-7046	500	2,609.53	503.04	2,612.57	20	5.38	J-7102
J-4228	500	2,611.01	504.45	2,615.46	20	20	J-4229
J-2625	500	2,612.71	524	2,636.71	27.5	0	J-381
J-4308	500	2,614.22	504.45	2,618.67	20	21.27	J-2502
J-7602	500	2,616.66	503.04	2,619.70	20	20.24	J-7641
J-2021	500	2,616.93	503.95	2,620.88	32.57	0.01	J-2358
J-2019	500	2,616.98	503.95	2,620.93	45.96	0.01	J-2358
J-7047	500	2,617.26	503.04	2,620.30	20	5.3	J-7102
J-7152	500	2,619.74	503.04	2,622.78	22.88	0	J-8058
J-8154	500	2,619.76	506.24	2,626.00	20	6.49	J-8319
J-1124	500	2,621.10	503.59	2,624.69	20.02	6.49	J-8319
J-221	500	2,621.26	503.59	2,624.85	50.27	0	J-220
J-4256	500	2,621.69	504.45	2,626.14	20	22.6	J-4264
J-946	500	2,622.13	503.59	2,625.72	20.04	6.49	J-8319
J-969	500	2,622.32	503.59	2,625.91	20.01	6.49	J-8319
J-7604	500	2,623.03	503.04	2,626.07	20	19.96	J-7641
J-7734	500	2,623.32	503.04	2,626.36	20	0.06	J-7718
J-4677	500	2,624.19	500	2,624.19	20.02	4.38	J-4007
J-7011	500	2,624.50	503.04	2,627.54	20	9.63	J-7052
J-7888	500	2,626.77	503.04	2,629.81	39.2	0	J-7718
J-597	500	2,627.78	503.59	2,631.37	20	0.87	J-1296
J-7833	500	2,628.22	503.04	2,631.26	20	0.83	J-7824
J-1285	500	2,628.48	501.44	2,629.92	20	6.49	J-8319
J-4354	500	2,628.74	504.45	2,633.19	20	16.97	J-4355
J-7054	500	2,628.99	503.04	2,632.03	20	1.82	J-7092
J-7984	500	2,630.19	503.04	2,633.23	20	6.49	J-8319
J-979	500	2,631.05	503.59	2,634.64	20.03	6.49	J-8319
J-4252	500	2,631.24	504.45	2,635.69	20	22.45	J-4264
J-715	500	2,631.75	503.59	2,635.34	20	0.87	J-1296
J-7750	500	2,632.60	503.04	2,635.64	23.12	0	J-7718
J-2671	500	2,633.05	500	2,633.05	20	0.87	J-1296
J-4243	500	2,633.53	504.45	2,637.98	20	22.32	J-4264
J-7391	500	2,635.39	503.04	2,638.43	22.63	0	J-8222
J-25	500	2,635.92	503.59	2,639.51	20.02	6.49	J-8319
J-2020	500	2,637.05	503.95	2,641.00	46.16	0	J-381
J-8283	500	2,637.56	500	2,637.56	20.01	16.55	J-8303
J-928	500	2,637.86	503.59	2,641.45	23.82	0.01	J-886
J-731	500	2,639.68	503.59	2,643.27	20	0.87	J-1296
J-7932	500	2,639.72	503.04	2,642.76	54.83	0	J-7718
J-2296	500	2,639.93	503.95	2,643.88	20.01	7.52	J-2502
J-2229	500	2,640.00	503.95	2,643.95	20	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-222	500	2,640.81	503.59	2,644.40	47.67	0	J-220
J-7737	500	2,641.07	503.04	2,644.11	25.96	0	J-7718
J-4245	500	2,641.36	504.45	2,645.81	20	22.45	J-4264
J-2544	500	2,641.61	503.95	2,645.56	20.01	7.24	J-2281
J-2533	500	2,643.26	503.95	2,647.21	20.01	7.14	J-2281
J-7368	500	2,643.52	503.04	2,646.56	20	24.38	J-3038
J-4237	500	2,643.90	504.45	2,648.35	20	22.02	J-2502
J-7738	500	2,644.56	503.04	2,647.60	28.64	0	J-7718
J-2206	500	2,644.88	503.95	2,648.83	20.03	0.49	J-381
J-7937	500	2,645.64	503.04	2,648.68	20	0.13	J-7718
J-2667	500	2,646.49	500	2,646.49	20	0.87	J-1296
J-65	500	2,649.54	503.59	2,653.13	20	6.49	J-8319
J-7603	500	2,651.56	500	2,651.56	20	19.53	J-7641
J-8239	500	2,653.73	500	2,653.73	54.85	0	J-7718
J-7731	500	2,654.46	503.04	2,657.50	21.84	0	J-7718
J-4669	500	2,654.95	500	2,654.95	20	0.87	J-1296
J-7740	500	2,655.46	503.04	2,658.50	43.01	0	J-7718
J-7933	500	2,656.22	503.04	2,659.26	54.84	0	J-7718
J-2247	500	2,657.39	503.95	2,661.34	20	2.39	J-2281
J-490	500	2,658.27	503.59	2,661.86	20	0.69	J-886
J-7995	500	2,658.48	503.04	2,661.52	20	6.49	J-8319
J-7729	500	2,658.51	503.04	2,661.55	31.67	0	J-7718
J-2514	500	2,659.63	503.95	2,663.58	20.01	6.32	J-2281
J-728	500	2,660.15	503.59	2,663.74	20	0.87	J-1296
J-1284	500	2,660.77	511.14	2,671.91	20	6.49	J-8319
J-3026	500	2,662.88	503.71	2,666.59	20.01	5.98	J-3038
J-8240	500	2,664.77	500	2,664.77	70.47	0	J-7718
J-7743	500	2,665.97	503.04	2,669.01	56.04	0	J-7718
J-7744	500	2,666.01	503.04	2,669.05	44.98	0	J-7718
J-7728	500	2,666.04	503.04	2,669.08	40.26	0	J-7718
J-7745	500	2,666.04	503.04	2,669.08	44.81	0	J-7718
J-7742	500	2,666.07	503.04	2,669.11	56.28	0	J-7718
J-8229	500	2,666.24	500	2,666.24	39.77	0	J-7718
J-7727	500	2,666.31	503.04	2,669.35	39.59	0	J-7718
J-847	500	2,667.06	503.59	2,670.65	20	0.87	J-1296
J-6014	500	2,667.83	502.76	2,670.59	42.59	0	J-7718
J-7938	500	2,668.11	503.04	2,671.15	69.76	0	J-7718
J-7934	500	2,668.44	503.04	2,671.48	69.58	0	J-7718
J-4422	500	2,668.69	504.45	2,673.14	20	19.57	J-4424
J-8122	500	2,669.75	503.04	2,672.79	20	4.61	J-7102
J-2584	500	2,670.29	503.95	2,674.24	20.3	0	J-381
J-2510	500	2,670.30	503.95	2,674.25	32.72	0	J-381
J-488	500	2,670.38	503.59	2,673.97	23.94	0.01	J-886
J-7749	500	2,672.65	503.04	2,675.69	69.17	0	J-7718
J-8241	500	2,672.89	500	2,672.89	69.21	0	J-7718
J-2600	500	2,674.03	503.95	2,677.98	32.87	0	J-381
J-456	500	2,674.17	503.59	2,677.76	20	0.71	J-886
J-7614	500	2,674.18	503.04	2,677.22	20.02	14.3	J-7655
J-6039	500	2,675.92	502.76	2,678.68	68.23	0	J-7718
J-4279	500	2,677.04	504.45	2,681.49	20	7.64	J-4278
J-7935	500	2,677.34	503.04	2,680.38	62.3	0	J-7718
J-6053	500	2,677.66	502.76	2,680.42	60.88	0	J-7718
J-4209	500	2,680.77	504.45	2,685.22	20	19.14	J-4215
J-4672	500	2,681.99	500	2,681.99	20	0.87	J-1296
J-2534	500	2,682.21	503.95	2,686.16	20.01	6.77	J-2281
J-725	500	2,682.99	503.59	2,686.58	20	0.87	J-1296
J-489	500	2,683.91	503.59	2,687.50	21.24	0	J-886

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7002	500	2,686.09	503.04	2,689.13	20	3.31	J-3038
J-2223	500	2,687.08	503.95	2,691.03	20	0.29	J-381
J-4045	500	2,689.81	504.45	2,694.26	20.02	4.15	J-4007
J-8121	500	2,690.34	503.04	2,693.38	20	3.69	J-7102
J-399	500	2,691.49	503.59	2,695.08	31.74	0	J-381
J-6043	500	2,692.65	502.76	2,695.41	64.06	0	J-7718
J-2651	500	2,692.96	500	2,692.96	35.47	0	J-381
J-1283	500	2,694.45	509.56	2,704.01	20	6.49	J-8319
J-7048	500	2,694.74	503.04	2,697.78	20	3.5	J-7102
J-7920	500	2,696.44	503.04	2,699.48	20	0.67	J-7718
J-7003	500	2,697.02	503.04	2,700.06	20	3.84	J-3038
J-6075	500	2,698.78	500	2,698.78	64.64	0	J-7718
J-8308	500	2,700.05	500	2,700.05	43.69	0	J-8058
J-1280	500	2,701.43	500	2,701.43	20	6.49	J-8319
J-7936	500	2,703.60	503.04	2,706.64	31.64	0	J-7718
J-6080	500	2,703.78	500	2,703.78	60.5	0	J-7718
J-8123	500	2,703.83	503.04	2,706.87	20	3.55	J-7102
J-8228	500	2,703.89	500	2,703.89	20	19.52	J-7641
J-6041	500	2,704.19	502.76	2,706.95	62.53	0	J-7718
J-6051	500	2,704.21	502.76	2,706.97	62.51	0	J-7718
J-6049	500	2,706.45	502.76	2,709.21	55.36	0	J-7718
J-6050	500	2,706.45	502.76	2,709.21	48.64	0	J-7718
J-6047	500	2,706.50	502.76	2,709.26	54.59	0	J-7718
J-6048	500	2,706.51	502.76	2,709.27	26.33	0	J-7718
J-6040	500	2,707.75	502.76	2,710.51	60.84	0	J-7718
J-2179	500	2,708.82	503.95	2,712.77	24.45	0	J-2184
J-4329	500	2,710.23	504.45	2,714.68	20	19.86	J-2502
J-4166	500	2,710.88	504.45	2,715.33	20	0.87	J-1296
J-6038	500	2,711.84	502.76	2,714.60	60	0	J-7718
J-6037	500	2,711.98	502.76	2,714.74	60.04	0	J-7718
J-8161	500	2,712.79	506.24	2,719.03	20	6.49	J-8319
J-4244	500	2,713.35	504.45	2,717.80	20	22.33	J-4264
J-4172	500	2,714.43	504.45	2,718.88	20	0.87	J-1296
J-6036	500	2,714.47	500	2,714.47	54.87	0	J-7718
J-6081	500	2,714.49	500	2,714.49	54.87	0	J-7718
J-6056	500	2,714.52	500	2,714.52	54.87	0	J-7718
J-6057	500	2,714.55	500	2,714.55	54.87	0	J-7718
J-6058	500	2,714.58	500	2,714.58	54.87	0	J-7718
J-6059	500	2,714.60	500	2,714.60	54.87	0	J-7718
J-4616	500	2,716.99	500	2,716.99	20	6.49	J-8319
J-2666	500	2,717.56	500	2,717.56	20	0.49	J-381
J-570	500	2,718.34	503.59	2,721.93	20	0.87	J-1296
J-8257	500	2,719.68	500	2,719.68	20.02	11.41	J-8259
J-223	500	2,720.34	503.59	2,723.93	30.36	0.01	J-220
J-2205	500	2,722.93	503.95	2,726.88	28.51	0	J-381
J-978	500	2,727.11	503.59	2,730.70	20	6.49	J-8319
J-7962	500	2,728.20	503.04	2,731.23	20	0.79	J-7718
J-1282	500	2,729.50	638.07	2,867.57	20.01	6.49	J-8319
J-6054	500	2,735.50	502.76	2,738.26	45.45	0	J-7718
J-2207	500	2,736.29	503.95	2,740.24	26.8	0	J-381
J-6020	500	2,737.64	502.76	2,740.40	45.26	0	J-7718
J-6021	500	2,742.16	502.76	2,744.92	49.53	0	J-7718
J-6022	500	2,742.16	502.76	2,744.92	35.34	0	J-7718
J-6023	500	2,742.16	502.76	2,744.92	36.55	0	J-7718
J-6024	500	2,742.16	502.76	2,744.92	29.43	0	J-7718
J-6025	500	2,742.16	502.76	2,744.92	32.55	0	J-7718
J-4567	500	2,743.24	504.45	2,747.69	31.75	0	J-4007

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4048	500	2,743.92	504.45	2,748.37	31.19	0	J-4007
J-3008	500	2,746.05	503.71	2,749.76	20	14.89	J-3038
J-2627	500	2,746.28	541.06	2,787.34	20	0.33	J-262
J-4566	500	2,747.12	504.45	2,751.57	30.85	0	J-4007
J-4251	500	2,748.41	504.45	2,752.86	20	21.87	J-4247
J-2619	500	2,750.23	503.95	2,754.18	20.01	6.49	J-8319
J-7372	500	2,750.30	503.04	2,753.34	20	24.1	J-3038
J-3011	500	2,751.76	503.71	2,755.47	27.33	0	J-3018
J-6027	500	2,751.97	502.76	2,754.73	38.72	0	J-7718
J-2237	500	2,753.87	503.95	2,757.82	20	0.87	J-1296
J-675	500	2,754.50	503.59	2,758.09	76.67	0	J-262
J-5124	500	2,754.72	500	2,754.72	23.4	0	J-7718
J-5111	500	2,754.84	503.31	2,758.15	50.1	0	J-7718
J-5112	500	2,754.84	503.31	2,758.15	28.08	0	J-7718
J-6033	500	2,754.84	502.76	2,757.60	32.67	0	J-7718
J-7884	500	2,758.26	503.04	2,761.30	33.55	0	J-7718
J-7000	500	2,760.13	503.04	2,763.17	22.53	0	J-3038
J-1281	500	2,769.54	500	2,769.54	20	6.49	J-8319
J-4074	500	2,769.86	504.45	2,774.31	20	0.87	J-1296
J-2232	500	2,770.00	503.95	2,773.95	20	0.27	J-381
J-1123	500	2,770.47	503.59	2,774.06	20.02	6.49	J-8319
J-8152	500	2,773.99	506.24	2,780.23	20	6.49	J-8319
J-4649	500	2,776.26	505.03	2,781.29	20	6.49	J-8319
J-679	500	2,776.60	503.59	2,780.19	76.64	0	J-262
J-4212	500	2,776.83	504.45	2,781.28	20	12.21	J-4214
J-7001	500	2,780.09	503.04	2,783.13	20	1.4	J-3038
J-3025	500	2,780.86	503.71	2,784.57	20.06	0.02	J-3023
J-2545	500	2,783.89	503.95	2,787.84	20.02	5.77	J-2281
J-2565	500	2,786.29	503.95	2,790.24	20	0.87	J-1296
J-4014	500	2,787.71	504.45	2,792.16	20.02	6.49	J-8319
J-2346	500	2,790.80	503.95	2,794.75	24.66	0	J-381
J-4618	500	2,791.01	500	2,791.01	20	6.49	J-8319
J-2618	500	2,792.65	503.95	2,796.60	20.01	6.49	J-8319
J-4250	500	2,794.32	504.45	2,798.77	20	22.41	J-2502
J-5057	500	2,794.49	503.31	2,797.80	23.18	0	J-166
J-2665	500	2,797.11	500	2,797.11	22.52	0	J-381
J-2601	500	2,797.15	503.95	2,801.10	28.01	0	J-381
J-5021	500	2,802.97	503.31	2,806.28	20	7.28	J-5028
J-4615	500	2,805.60	500	2,805.60	20	6.49	J-8319
J-5005	500	2,807.13	503.31	2,810.44	20	25.39	J-5004
J-8158	500	2,807.91	506.24	2,814.15	20	6.49	J-8319
J-7392	500	2,811.36	503.04	2,814.40	22.77	0	J-8222
J-2526	500	2,812.88	503.95	2,816.83	20.01	5.25	J-2281
J-4622	500	2,813.84	500	2,813.84	20	6.49	J-8319
J-4047	500	2,815.17	504.45	2,819.62	34.18	0	J-4007
J-4449	500	2,817.05	504.45	2,821.50	20.01	15.96	J-2502
J-2241	500	2,819.03	503.95	2,822.98	20	0.87	J-1296
J-4224	500	2,819.65	504.45	2,824.10	20	21.94	J-2502
J-2567	500	2,819.80	503.95	2,823.75	20	23.11	J-2566
J-7882	500	2,820.89	503.04	2,823.93	31.42	0	J-7718
J-5044	500	2,826.74	503.31	2,830.05	20	8.75	J-5126
J-945	500	2,829.58	503.59	2,833.17	20	6.49	J-8319
J-4465	500	2,834.23	504.45	2,838.68	20.01	11.94	J-2502
J-4078	500	2,835.40	504.45	2,839.85	20	0.87	J-1296
J-8217	500	2,835.51	500	2,835.51	20.76	0	J-7102
J-4255	500	2,839.36	504.45	2,843.81	20	13.3	J-4258
J-4309	500	2,841.30	504.45	2,845.75	20	16.91	J-4307

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2228	500	2,841.98	503.95	2,845.93	26.42	0	J-381
J-844	500	2,842.36	503.59	2,845.95	32.73	0	J-880
J-3028	500	2,846.61	503.71	2,850.32	36.99	0	J-3038
J-723	500	2,847.94	503.59	2,851.53	20	0.87	J-1296
J-4273	500	2,851.47	504.45	2,855.92	20	18.23	J-4278
J-2242	500	2,853.21	503.95	2,857.16	24.9	0	J-2281
J-4239	500	2,853.70	504.45	2,858.15	20	21.69	J-2502
J-1040	500	2,854.08	500	2,854.08	20	0.87	J-1296
J-4392	500	2,854.15	504.45	2,858.60	20	22.68	J-2502
J-4389	500	2,855.72	504.45	2,860.17	20	22.85	J-2502
J-5020	500	2,856.70	503.31	2,860.01	20	33.42	J-5028
J-4358	500	2,858.52	504.45	2,862.97	20	19.82	J-2502
J-968	500	2,861.10	503.59	2,864.69	20.01	6.49	J-8319
J-7866	500	2,861.55	503.04	2,864.59	20	0.87	J-1296
J-2297	500	2,864.31	503.95	2,868.26	20.01	5.1	J-2502
J-4328	500	2,868.77	504.45	2,873.22	20	20.96	J-2502
J-8160	500	2,874.88	506.24	2,881.11	20	6.49	J-8319
J-4118	500	2,877.38	513.55	2,890.93	20	6.49	J-8319
J-1077	500	2,878.05	503.59	2,881.64	20	0.87	J-1296
J-2621	500	2,878.71	590.55	2,969.26	24.3	0	J-381
J-4227	500	2,879.64	504.45	2,884.09	20	21.88	J-2502
J-846	500	2,887.42	503.59	2,891.01	20	0.87	J-1296
J-4379	500	2,888.29	504.45	2,892.74	20	20.76	J-2502
J-714	500	2,888.33	503.59	2,891.92	21.63	0	J-1203
J-8124	500	2,889.23	503.04	2,892.27	22.77	0	J-7102
J-727	500	2,892.71	503.59	2,896.30	20	0.87	J-1296
J-7148	500	2,893.87	503.04	2,896.91	44.41	0	J-8058
J-8125	500	2,894.85	503.04	2,897.89	26.69	0	J-7102
J-7592	500	2,896.33	503.04	2,899.37	20	5.9	J-7595
J-4292	500	2,898.57	504.45	2,903.02	20	21.51	J-2502
J-7367	500	2,900.20	503.04	2,903.24	20	17.9	J-7368
J-695	500	2,900.72	503.59	2,904.31	20	0.87	J-1296
J-4544	500	2,902.75	504.45	2,907.20	20	22.64	J-4264
J-4394	500	2,906.98	504.45	2,911.43	20	22.79	J-2502
J-615	500	2,908.51	503.59	2,912.10	20	0.87	J-1296
J-4226	500	2,917.83	504.45	2,922.28	20	21.91	J-2502
J-2411	500	2,919.73	503.95	2,923.68	20.01	3.21	J-2281
J-7049	500	2,921.51	503.04	2,924.55	26.62	0	J-7102
J-5130	500	2,924.96	529.23	2,954.19	47.62	0	J-7718
J-7953	500	2,933.31	503.04	2,936.35	55.39	0	J-7718
J-7880	500	2,940.97	503.04	2,944.01	25.02	0	J-7718
J-4080	500	2,947.12	504.45	2,951.57	20	0.87	J-1296
J-7956	500	2,947.15	503.04	2,950.19	55.29	0	J-7718
J-4590	500	2,950.03	503.51	2,953.54	20	0.87	J-1296
J-4647	500	2,950.52	502.62	2,953.14	20	6.49	J-8319
J-3029	500	2,951.63	503.71	2,955.34	37.35	0.01	J-3038
J-1025	500	2,952.66	503.59	2,956.25	20	0.52	J-7718
J-4167	500	2,954.29	504.45	2,958.74	20	0.87	J-1296
J-4543	500	2,956.44	504.45	2,960.89	20	0.87	J-1296
J-8276	500	2,958.38	500	2,958.38	20	19.48	J-7641
J-7369	500	2,959.12	503.04	2,962.16	20	22.07	J-3038
J-8157	500	2,960.16	506.24	2,966.40	20	6.49	J-8319
J-1253	500	2,960.97	500	2,960.97	20	0.87	J-1296
J-4431	500	2,962.65	504.45	2,967.10	20	9.61	J-4435
J-3007	500	2,962.75	503.71	2,966.46	20	12.14	J-3038
J-2597	500	2,964.61	503.95	2,968.56	20.01	1.93	J-2281
J-4352	500	2,965.06	504.45	2,969.51	20	18.59	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2119	500	2,965.32	503.95	2,969.27	38.65	0	J-2281
J-4216	500	2,966.83	504.45	2,971.28	20	16.97	J-4217
J-2174	500	2,966.96	503.95	2,970.91	25.23	0	J-2184
J-7958	500	2,974.74	503.04	2,977.78	48.19	0	J-7718
J-8282	500	2,980.31	500	2,980.31	20	13.71	J-7102
J-4222	500	2,980.73	504.45	2,985.18	20	21.61	J-2502
J-4360	500	2,981.74	504.45	2,986.19	20	19.83	J-2502
J-2245	500	2,985.83	503.95	2,989.78	35.13	0	J-2281
J-5056	500	2,987.96	503.31	2,991.27	20	26.91	J-166
J-4210	500	2,992.65	504.45	2,997.10	20	13.17	J-4214
J-4230	500	2,995.21	504.45	2,999.66	20	17.84	J-4231
J-4371	500	2,997.28	504.45	3,001.73	20	20.58	J-2502
J-2244	500	3,002.90	503.95	3,006.85	35.86	0	J-2281
J-96	500	3,010.32	503.59	3,013.91	20	6.49	J-8319
J-4648	500	3,021.59	505.03	3,026.62	20	6.49	J-8319
J-2570	500	3,025.32	503.95	3,029.27	20	21.19	J-2502
J-1026	500	3,039.92	503.59	3,043.51	20	0.38	J-7718
J-2181	500	3,042.27	503.95	3,046.22	22.4	0	J-2184
J-8000	500	3,042.82	503.04	3,045.86	20	6.49	J-8319
J-4031	500	3,044.59	504.45	3,049.04	20.01	6.49	J-8319
J-4654	500	3,051.97	511.03	3,063.00	20	6.49	J-8319
J-2261	500	3,052.07	503.95	3,056.02	40.84	0	J-2281
J-5010	500	3,058.34	503.31	3,061.65	20	28.88	J-5004
J-2382	500	3,064.62	503.95	3,068.57	49.41	0	J-2281
J-4021	500	3,064.90	504.45	3,069.34	20.02	6.49	J-8319
J-4396	500	3,068.85	504.45	3,073.30	20	19.57	J-4397
J-1184	500	3,070.72	507.02	3,077.74	20	6.49	J-8319
J-2178	500	3,072.49	503.95	3,076.44	20	13.01	J-2184
J-845	500	3,075.16	503.59	3,078.75	33.11	0	J-880
J-4353	500	3,075.42	504.45	3,079.87	20	16.97	J-4355
J-7951	500	3,075.87	503.04	3,078.91	68.6	0	J-7718
J-4176	500	3,076.83	504.45	3,081.28	20	0.87	J-1296
J-4310	500	3,077.89	504.45	3,082.34	20	20.1	J-2502
J-5003	500	3,080.26	503.31	3,083.57	20	18.27	J-5004
J-4391	500	3,081.43	504.45	3,085.88	20	19.46	J-4392
J-8281	500	3,082.83	500	3,082.83	20	11.67	J-7102
J-7959	500	3,083.39	503.04	3,086.43	76.08	0	J-7718
J-2384	500	3,086.15	503.95	3,090.10	30.28	0	J-2281
J-2383	500	3,086.16	503.95	3,090.11	46.06	0	J-2281
J-7892	500	3,087.06	503.04	3,090.10	21.9	0	J-7718
J-7388	500	3,087.65	503.04	3,090.69	22.6	0	J-7718
J-7893	500	3,087.79	503.04	3,090.83	21.8	0	J-7718
J-3030	500	3,089.25	503.71	3,092.96	35.78	0	J-3038
J-7879	500	3,090.39	503.04	3,093.43	25.18	0	J-7718
J-2262	500	3,090.70	503.95	3,094.65	45.28	0	J-2281
J-4589	500	3,092.55	503.51	3,096.06	20	0.87	J-1296
J-2385	500	3,099.45	503.95	3,103.40	39.84	0	J-2281
J-1097	500	3,100.98	503.59	3,104.57	20.01	6.49	J-8319
J-7907	500	3,101.88	503.04	3,104.92	26.53	0	J-7718
J-7894	500	3,102.88	503.04	3,105.92	31.65	0	J-7718
J-4549	500	3,109.36	504.45	3,113.81	20	13.21	J-4457
J-8242	500	3,109.89	500	3,109.89	78.13	0	J-7718
J-8243	500	3,109.89	500	3,109.89	121.11	0	J-7718
J-8244	500	3,109.89	500	3,109.89	77.29	0	J-7718
J-4024	500	3,111.16	504.45	3,115.61	20	6.49	J-8319
J-2291	500	3,114.89	503.95	3,118.84	45.63	0	J-2281
J-995	500	3,116.64	503.59	3,120.23	40.69	0	J-7718

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2596	500	3,120.61	503.95	3,124.56	26.6	0	J-2281
J-4460	500	3,122.09	504.45	3,126.54	20	5.9	J-2502
J-7870	500	3,122.29	503.04	3,125.33	25.12	0	J-7718
J-7929	500	3,123.81	503.04	3,126.85	75.92	0	J-7718
J-4033	500	3,126.35	504.45	3,130.80	20.01	6.49	J-8319
J-2386	500	3,128.05	503.95	3,132.00	40.63	0	J-2281
J-8280	500	3,129.74	500	3,129.74	20	10.73	J-7102
J-8272	500	3,132.62	500	3,132.62	49.51	0	J-7718
J-2121	500	3,133.45	503.95	3,137.40	63.54	0	J-2281
J-1183	500	3,135.08	507.02	3,142.10	20	6.49	J-8319
J-7928	500	3,135.80	503.04	3,138.84	65.18	0	J-7718
J-2180	500	3,137.95	503.95	3,141.90	25.21	0	J-2184
J-7926	500	3,140.59	503.04	3,143.63	67.22	0	J-7718
J-2259	500	3,143.43	503.95	3,147.38	62.29	0	J-2281
J-8131	500	3,144.63	503.04	3,147.67	73.68	0	J-7718
J-4018	500	3,146.02	504.45	3,150.47	20.02	6.49	J-8319
J-2254	500	3,146.31	503.95	3,150.26	62.31	0	J-2281
J-2255	500	3,146.31	503.95	3,150.26	30.38	0	J-2281
J-7923	500	3,147.48	503.04	3,150.52	52	0	J-7718
J-4668	500	3,147.85	500	3,147.85	20	0.87	J-1296
J-7965	500	3,148.28	503.04	3,151.32	50.68	0	J-7718
J-2387	500	3,149.49	503.95	3,153.44	71.22	0	J-2281
J-130	500	3,150.76	503.59	3,154.35	20.02	6.49	J-8319
J-5002	500	3,152.21	503.31	3,155.52	20	21.97	J-5004
J-103	500	3,154.88	503.59	3,158.47	20	6.49	J-8319
J-2389	500	3,154.94	503.95	3,158.89	73.38	0	J-2281
J-7963	500	3,155.62	503.04	3,158.66	51.66	0	J-7718
J-8133	500	3,156.25	503.04	3,159.29	36.29	0	J-7718
J-7927	500	3,159.08	503.04	3,162.12	76.66	0	J-7718
J-2659	500	3,159.79	500	3,159.79	42.28	0	J-2281
J-2253	500	3,160.15	503.95	3,164.10	63.3	0	J-2281
J-991	500	3,160.32	503.59	3,163.91	51.24	0	J-7718
J-4123	500	3,161.28	504.45	3,165.73	20	6.49	J-8319
J-7964	500	3,161.59	503.04	3,164.63	58.33	0	J-7718
J-7960	500	3,162.01	503.04	3,165.05	27.23	0	J-7718
J-7924	500	3,163.07	503.04	3,166.11	48	0	J-7718
J-3078	500	3,163.38	529.98	3,193.36	20	6.49	J-8319
J-2400	500	3,166.00	503.95	3,169.95	65.58	0	J-2281
J-7968	500	3,166.49	503.04	3,169.53	26.37	0	J-7718
J-989	500	3,169.92	503.59	3,173.51	55.89	0	J-7718
J-2402	500	3,171.32	503.95	3,175.27	59.96	0	J-2281
J-7783	500	3,174.67	503.04	3,177.71	90.22	0	J-7718
J-8132	500	3,174.69	503.04	3,177.73	75.61	0	J-7718
J-2622	500	3,178.19	557.41	3,235.60	58.98	0	J-2281
J-1023	500	3,179.11	503.59	3,182.70	47.79	0	J-7718
J-988	500	3,180.18	503.59	3,183.77	70.22	0	J-7718
J-2623	500	3,180.44	584.54	3,264.98	58.8	0	J-2281
J-8159	500	3,180.99	506.24	3,187.23	20	6.49	J-8319
J-7925	500	3,185.27	503.04	3,188.31	74.67	0	J-7718
J-2410	500	3,186.32	503.95	3,190.27	57.49	0	J-2281
J-1158	500	3,186.85	503.59	3,190.44	20	0.07	J-7718
J-598	500	3,187.18	503.59	3,190.77	20	0.87	J-1296
J-980	500	3,190.39	503.59	3,193.97	20	0.87	J-1296
J-1006	500	3,191.24	503.59	3,194.83	89.01	0	J-7718
J-1277	500	3,192.42	500	3,192.42	62.46	0	J-7718
J-4225	500	3,193.57	504.45	3,198.02	20	21.3	J-2502
J-1242	500	3,196.62	500	3,196.62	73.32	0	J-7718

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-5001	500	3,197.06	503.31	3,200.37	20	19.7	J-5004
J-4070	500	3,198.67	504.45	3,203.12	20	0.87	J-1296
J-4462	500	3,201.22	504.45	3,205.67	20	3.44	J-2502
J-2269	500	3,201.40	503.95	3,205.35	65.49	0	J-2281
J-7371	500	3,202.00	503.04	3,205.04	20	19.57	J-7372
J-4614	500	3,202.55	500	3,202.55	20	6.49	J-8319
J-8008	500	3,202.97	503.04	3,206.01	20	6.49	J-8319
J-72	500	3,203.30	503.59	3,206.89	20	6.49	J-8319
J-1022	500	3,206.41	503.59	3,210.00	72.16	0	J-7718
J-1009	500	3,206.54	503.59	3,210.13	73.16	0	J-7718
J-1197	500	3,207.55	500	3,207.55	20	0.87	J-1296
J-4034	500	3,207.81	504.45	3,212.26	20.01	6.49	J-8319
J-1021	500	3,213.27	503.59	3,216.86	73.13	0	J-7718
J-7366	500	3,215.02	503.04	3,218.06	20	17.05	J-7369
J-2513	500	3,218.06	503.95	3,222.01	67.22	0	J-2281
J-4399	500	3,220.01	504.45	3,224.46	20.01	15.59	J-4401
J-2566	500	3,220.33	503.95	3,224.28	20	19.57	J-2567
J-4072	500	3,223.67	504.45	3,228.12	20	0.87	J-1296
J-4071	500	3,224.70	504.45	3,229.15	20	0.87	J-1296
J-4398	500	3,228.49	504.45	3,232.94	20	17.81	J-4401
J-4029	500	3,239.42	504.45	3,243.87	20.02	6.49	J-8319
J-8277	500	3,245.75	500	3,245.75	20.02	10.84	J-7641
J-1015	500	3,246.88	503.59	3,250.47	71.25	0	J-7718
J-5006	500	3,247.91	503.31	3,251.22	20	21.12	J-5004
J-2270	500	3,248.22	503.95	3,252.17	69.51	0	J-2508
J-2380	500	3,252.85	503.95	3,256.80	69.92	0	J-2508
J-2595	500	3,253.60	503.95	3,257.55	65.94	0	J-2281
J-4077	500	3,253.74	504.45	3,258.19	20	0.87	J-1296
J-2275	500	3,255.24	503.95	3,259.19	68.09	0	J-2502
J-5051	500	3,257.08	503.31	3,260.39	24.22	0	J-166
J-4461	500	3,257.29	504.45	3,261.74	20	3	J-2502
J-1195	500	3,258.49	500	3,258.49	20	0.87	J-1296
J-2528	500	3,259.01	503.95	3,262.96	63.8	0	J-2281
J-4546	500	3,261.49	504.45	3,265.94	20	0.87	J-1296
J-709	500	3,262.45	503.59	3,266.04	20	0.87	J-1296
J-1069	500	3,262.50	503.59	3,266.09	35.38	0	J-880
J-711	500	3,266.21	503.59	3,269.80	20	0.87	J-1296
J-4568	500	3,266.91	504.45	3,271.36	20	0.87	J-1296
J-2527	500	3,267.29	503.95	3,271.24	58.63	0	J-2281
J-2529	500	3,270.79	503.95	3,274.74	50.89	0	J-2281
J-4374	500	3,271.97	504.45	3,276.42	20	20.34	J-2502
J-1013	500	3,272.71	503.59	3,276.30	68.24	0	J-7718
J-3076	500	3,273.26	529.98	3,303.24	20	6.49	J-8319
J-2594	500	3,276.17	503.95	3,280.12	58.22	0	J-2281
J-2532	500	3,279.39	503.95	3,283.34	28.67	0	J-2281
J-2274	500	3,281.78	503.95	3,285.73	75.08	0	J-2502
J-2531	500	3,283.53	503.95	3,287.48	23.94	0	J-2281
J-1107	500	3,284.24	503.59	3,287.83	20	0.87	J-1296
J-2271	500	3,285.10	503.95	3,289.05	71.94	0	J-2508
J-2587	500	3,285.63	503.95	3,289.58	74.94	0	J-2502
J-2593	500	3,286.68	503.95	3,290.63	63.29	0.01	J-2281
J-2367	500	3,290.62	503.95	3,294.57	44.03	0	J-2502
J-2272	500	3,290.73	503.95	3,294.68	69.74	0	J-2508
J-2370	500	3,292.45	503.95	3,296.40	44.94	0	J-2502
J-8254	500	3,294.01	505.87	3,299.88	20	6.49	J-8319
J-2372	500	3,294.15	503.95	3,298.10	48.87	0	J-2502
J-2373	500	3,294.15	503.95	3,298.10	36.97	0	J-2502



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-2374	500	3,294.15	503.95	3,298.10	29.79	0	J-2502
J-4253	500	3,295.15	504.45	3,299.59	20	19.02	J-4264
J-2273	500	3,296.04	503.95	3,299.99	71.88	0	J-2508
J-808	500	3,296.62	503.59	3,300.21	62.15	0	J-7718
J-4030	500	3,297.23	504.45	3,301.68	20.02	6.49	J-8319
J-4302	500	3,298.40	504.45	3,302.85	20	19.23	J-2502
J-398	500	3,304.04	503.59	3,307.63	42.4	0	J-381
J-2276	500	3,305.43	503.95	3,309.38	61.52	0	J-2502
J-2299	500	3,308.37	503.95	3,312.32	25.38	0	J-2502
J-4601	500	3,308.77	539.42	3,348.19	20	6.49	J-8319
J-1068	500	3,309.10	503.59	3,312.69	25.79	0	J-880
J-4135	500	3,309.26	504.45	3,313.71	20	6.49	J-8319
J-805	500	3,312.79	503.59	3,316.38	61.53	0	J-7718
J-5008	500	3,314.61	503.31	3,317.92	20	20.22	J-5004
J-4377	500	3,316.69	504.45	3,321.14	20	18.7	J-4378
J-4017	500	3,319.78	504.45	3,324.23	20	6.49	J-8319
J-2277	500	3,320.99	503.95	3,324.94	60.95	0	J-2502
J-4493	500	3,322.13	504.45	3,326.58	20.01	12.2	J-2502
J-2547	500	3,322.16	503.95	3,326.11	32.15	0	J-2281
J-4267	500	3,325.60	504.45	3,330.05	20	16.66	J-4544
J-7370	500	3,326.15	503.04	3,329.19	20	19.34	J-3038
J-4395	500	3,326.73	504.45	3,331.18	20	20.65	J-4264
J-803	500	3,326.77	503.59	3,330.36	56.7	0	J-7718
J-2498	500	3,331.97	503.95	3,335.92	20.01	0.87	J-1296
J-2278	500	3,335.06	503.95	3,339.01	63.85	0	J-2502
J-863	500	3,335.11	503.59	3,338.70	27.62	0	J-880
J-4366	500	3,335.48	504.45	3,339.93	20	19.88	J-2502
J-2512	500	3,336.44	503.95	3,340.39	52.62	0	J-2281
J-3080	500	3,338.33	529.98	3,368.31	20	6.49	J-8319
J-802	500	3,339.33	503.59	3,342.92	56.34	0	J-7718
J-967	500	3,340.48	503.59	3,344.07	20	6.49	J-8319
J-8275	500	3,341.36	500	3,341.36	20	6.49	J-8319
J-4364	500	3,343.23	504.45	3,347.68	20	19.76	J-2502
J-1290	500	3,346.64	500	3,346.64	56.12	0	J-7718
J-8150	500	3,346.64	506.24	3,352.88	20	6.49	J-8319
J-3077	500	3,348.23	529.98	3,378.21	20	6.49	J-8319
J-2279	500	3,351.35	503.95	3,355.30	62.41	0	J-2502
J-1129	500	3,354.71	503.59	3,358.30	34.46	0	J-8222
J-4020	500	3,354.86	504.45	3,359.31	20	6.49	J-8319
J-3079	500	3,355.16	529.98	3,385.14	20	6.49	J-8319
J-4296	500	3,355.44	504.45	3,359.89	20	17.41	J-4223
J-4276	500	3,355.58	504.45	3,360.03	20	13.78	J-4278
J-2335	500	3,357.64	503.95	3,361.59	20	0.87	J-1296
J-7395	500	3,357.64	503.04	3,360.68	20	0.87	J-1296
J-1030	500	3,363.35	503.59	3,366.94	70.81	0	J-7718
J-4207	500	3,363.61	504.45	3,368.06	20	20.82	J-2502
J-95	500	3,364.52	503.59	3,368.11	20	6.49	J-8319
J-798	500	3,364.68	503.59	3,368.27	52.7	0	J-7718
J-8156	500	3,368.19	506.24	3,374.43	20	6.49	J-8319
J-5007	500	3,368.45	503.31	3,371.76	20	20.86	J-5006
J-2280	500	3,370.31	503.95	3,374.26	61.38	0	J-2502
J-5009	500	3,372.38	503.31	3,375.69	20	19.73	J-5004
J-4311	500	3,372.73	504.45	3,377.18	20	19.36	J-2502
J-696	500	3,375.38	503.59	3,378.97	20	0.42	J-7718
J-4306	500	3,375.68	504.45	3,380.13	20	19.33	J-2502
J-4283	500	3,380.94	504.45	3,385.39	20	18.34	J-4278
J-3009	500	3,383.22	503.71	3,386.93	35.46	0	J-3038

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4586	500	3,385.51	500	3,385.51	20	6.49	J-8319
J-1029	500	3,387.03	503.59	3,390.62	86.58	0	J-7718
J-784	500	3,390.41	503.59	3,394.00	57.8	0	J-7718
J-4304	500	3,393.88	504.45	3,398.33	20	15.68	J-4303
J-1249	500	3,394.89	500	3,394.89	67.1	0	J-7718
J-1250	500	3,394.89	500	3,394.89	47.71	0	J-7718
J-996	500	3,394.89	503.59	3,398.48	86.49	0	J-7718
J-4463	500	3,396.83	504.45	3,401.28	63.32	0	J-2502
J-1080	500	3,397.05	503.59	3,400.64	57.75	0	J-7718
J-4362	500	3,402.64	504.45	3,407.09	20	19.51	J-2502
J-7146	500	3,405.91	503.04	3,408.95	38.09	0	J-8058
J-4361	500	3,412.78	504.45	3,417.23	20	19.34	J-2502
J-864	500	3,412.92	503.59	3,416.51	27.09	0	J-880
J-1082	500	3,413.66	503.59	3,417.25	56.82	0	J-7718
J-128	500	3,415.30	503.59	3,418.89	20	6.49	J-8319
J-2585	500	3,419.23	503.95	3,423.18	52.6	0	J-2281
J-811	500	3,419.84	503.59	3,423.43	90.97	0	J-7718
J-1162	500	3,423.50	564.03	3,487.53	90.93	0	J-7718
J-4386	500	3,425.74	504.45	3,430.19	20	15.67	J-4387
J-785	500	3,429.09	503.59	3,432.68	54.67	0	J-7718
J-4096	500	3,432.11	504.45	3,436.56	20	0.87	J-1296
J-769	500	3,432.59	503.59	3,436.18	90.82	0	J-7718
J-4205	500	3,433.54	504.45	3,437.99	20	12.36	J-4214
J-8153	500	3,437.72	506.24	3,443.96	20	6.49	J-8319
J-768	500	3,438.57	503.59	3,442.16	92.4	0	J-7718
J-4073	500	3,440.52	504.45	3,444.97	20	0.87	J-1296
J-4019	500	3,441.20	504.45	3,445.65	20	6.49	J-8319
J-5054	500	3,441.55	503.31	3,444.86	20	21.69	J-166
J-767	500	3,444.18	503.59	3,447.77	92.24	0	J-7718
J-4356	500	3,450.97	504.45	3,455.42	20	17.37	J-2502
J-4643	500	3,451.20	504.45	3,455.65	20.01	11.59	J-2502
J-3075	500	3,451.46	529.98	3,481.44	20	6.49	J-8319
J-763	500	3,452.63	503.59	3,456.22	95.47	0	J-7718
J-596	500	3,457.50	503.59	3,461.09	20	0.87	J-1296
J-4455	500	3,462.32	504.45	3,466.77	20	12.35	J-2502
J-8155	500	3,463.32	506.24	3,469.56	20	6.49	J-8319
J-681	500	3,464.03	503.59	3,467.62	95.15	0	J-7718
J-71	500	3,464.80	503.59	3,468.39	20	6.49	J-8319
J-4285	500	3,465.84	504.45	3,470.29	20	19.79	J-4264
J-8149	500	3,465.98	506.24	3,472.22	20	6.49	J-8319
J-680	500	3,467.60	503.59	3,471.19	95.04	0	J-7718
J-1252	500	3,468.58	500	3,468.58	25.62	0	J-880
J-1251	500	3,468.84	500	3,468.84	26.08	0	J-880
J-787	500	3,476.38	503.59	3,479.97	31.32	0	J-7718
J-1109	500	3,477.63	503.59	3,481.22	20	6.49	J-8319
J-8148	500	3,478.73	506.24	3,484.97	20	6.49	J-8319
J-766	500	3,481.93	503.59	3,485.52	88.53	0	J-7718
J-7867	500	3,482.53	503.04	3,485.57	21.09	0	J-7718
J-555	500	3,483.04	503.59	3,486.63	20	0.86	J-7718
J-8151	500	3,488.14	506.24	3,494.38	20	6.49	J-8319
J-606	500	3,492.33	503.59	3,495.92	26.09	0	J-880
J-7124	500	3,497.62	503.04	3,500.66	28.15	0.01	J-7102
J-4419	500	3,498.17	504.45	3,502.62	20	18.84	J-2502
J-4563	500	3,498.27	504.45	3,502.72	20	0.87	J-1296
J-1	500	3,500.00	503.59	3,503.59	62.39	6.49	J-8319
J-10	500	3,500.00	503.59	3,503.59	81.48	6.49	J-8319
J-101	500	3,500.00	503.59	3,503.59	68.88	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-102	500	3,500.00	503.59	3,503.59	64.93	6.49	J-8319
J-1032	500	3,500.00	503.59	3,503.59	61.18	6.49	J-8319
J-1033	500	3,500.00	503.59	3,503.59	79.46	6.49	J-8319
J-1034	500	3,500.00	503.59	3,503.59	79.5	6.49	J-8319
J-1035	500	3,500.00	503.59	3,503.59	82.02	6.49	J-8319
J-1036	500	3,500.00	503.59	3,503.59	83.49	6.49	J-8319
J-1037	500	3,500.00	503.59	3,503.59	89.28	6.49	J-8319
J-1039	500	3,500.00	500	3,500.00	34.68	0.87	J-1296
J-1043	500	3,500.00	503.59	3,503.59	26.7	0.87	J-1296
J-1044	500	3,500.00	503.59	3,503.59	79.52	6.49	J-8319
J-1046	500	3,500.00	500	3,500.00	24.44	0.87	J-1296
J-1047	500	3,500.00	503.59	3,503.59	34.12	0.87	J-1296
J-1048	500	3,500.00	503.59	3,503.59	31.69	0.87	J-1296
J-105	500	3,500.00	503.59	3,503.59	39.16	6.49	J-8319
J-1058	500	3,500.00	503.59	3,503.59	22.02	0.87	J-1296
J-1059	500	3,500.00	503.59	3,503.59	22.72	0.87	J-1296
J-106	500	3,500.00	503.59	3,503.59	50.89	6.49	J-8319
J-1060	500	3,500.00	503.59	3,503.59	24.42	0.87	J-1296
J-1061	500	3,500.00	503.59	3,503.59	25.83	0.87	J-1296
J-1062	500	3,500.00	503.59	3,503.59	40.11	0.87	J-1296
J-1063	500	3,500.00	503.59	3,503.59	34.17	0.87	J-1296
J-107	500	3,500.00	503.59	3,503.59	56.87	6.49	J-8319
J-1078	500	3,500.00	503.59	3,503.59	90.85	0.09	J-7718
J-108	500	3,500.00	503.59	3,503.59	61.43	6.49	J-8319
J-1087	500	3,500.00	503.59	3,503.59	77.52	6.49	J-8319
J-1088	500	3,500.00	503.59	3,503.59	78.75	6.49	J-8319
J-1089	500	3,500.00	503.59	3,503.59	79.27	6.49	J-8319
J-1089	500	3,500.00	503.59	3,503.59	79.27	6.49	J-8319
J-109	500	3,500.00	503.59	3,503.59	51.57	6.49	J-8319
J-1090	500	3,500.00	503.59	3,503.59	75.9	6.49	J-8319
J-1091	500	3,500.00	503.59	3,503.59	26.17	6.49	J-8319
J-1096	500	3,500.00	503.59	3,503.59	65.11	6.49	J-8319
J-1098	500	3,500.00	503.59	3,503.59	34.88	6.49	J-8319
J-1099	500	3,500.00	503.59	3,503.59	78.53	6.49	J-8319
J-1099	500	3,500.00	503.59	3,503.59	78.53	6.49	J-8319
J-11	500	3,500.00	503.59	3,503.59	56.43	6.49	J-8319
J-110	500	3,500.00	503.59	3,503.59	47.69	6.49	J-8319
J-1101	500	3,500.00	503.59	3,503.59	83.57	6.49	J-8319
J-1102	500	3,500.00	503.59	3,503.59	74.49	6.49	J-8319
J-1103	500	3,500.00	503.59	3,503.59	64.98	6.49	J-8319
J-1104	500	3,500.00	503.59	3,503.59	28.68	0.87	J-1296
J-1105	500	3,500.00	503.59	3,503.59	68.71	6.49	J-8319
J-1106	500	3,500.00	503.59	3,503.59	64.24	6.49	J-8319
J-1106	500	3,500.00	503.59	3,503.59	64.24	6.49	J-8319
J-1108	500	3,500.00	503.59	3,503.59	67.59	6.49	J-8319
J-1108	500	3,500.00	503.59	3,503.59	67.59	6.49	J-8319
J-111	500	3,500.00	503.59	3,503.59	61.72	6.49	J-8319
J-1110	500	3,500.00	503.59	3,503.59	67.05	6.49	J-8319
J-1110	500	3,500.00	503.59	3,503.59	67.05	6.49	J-8319
J-1111	500	3,500.00	503.59	3,503.59	66.19	6.49	J-8319
J-1111	500	3,500.00	503.59	3,503.59	66.19	6.49	J-8319
J-1113	500	3,500.00	503.59	3,503.59	65.86	6.49	J-8319
J-1113	500	3,500.00	503.59	3,503.59	65.86	6.49	J-8319
J-1114	500	3,500.00	503.59	3,503.59	64.45	6.49	J-8319
J-1114	500	3,500.00	503.59	3,503.59	64.45	6.49	J-8319
J-1116	500	3,500.00	503.59	3,503.59	65.26	6.49	J-8319
J-1116	500	3,500.00	503.59	3,503.59	65.26	6.49	J-8319
J-1117	500	3,500.00	503.59	3,503.59	43.01	6.49	J-8319
J-1117	500	3,500.00	503.59	3,503.59	43.01	6.49	J-8319
J-1119	500	3,500.00	503.59	3,503.59	38.92	0.87	J-1296
J-1119	500	3,500.00	503.59	3,503.59	38.92	0.87	J-1296
J-112	500	3,500.00	503.59	3,503.59	58.11	6.49	J-8319
J-112	500	3,500.00	503.59	3,503.59	58.11	6.49	J-8319
J-1120	500	3,500.00	503.59	3,503.59	100.98	6.49	J-8319
J-1120	500	3,500.00	503.59	3,503.59	100.98	6.49	J-8319
J-1121	500	3,500.00	503.59	3,503.59	100.71	6.49	J-8319
J-1121	500	3,500.00	503.59	3,503.59	100.71	6.49	J-8319
J-1122	500	3,500.00	503.59	3,503.59	30.75	6.49	J-8319
J-1122	500	3,500.00	503.59	3,503.59	30.75	6.49	J-8319
J-1125	500	3,500.00	503.59	3,503.59	103.97	6.49	J-8319
J-1125	500	3,500.00	503.59	3,503.59	103.97	6.49	J-8319
J-1126	500	3,500.00	503.59	3,503.59	101.15	6.49	J-8319
J-1126	500	3,500.00	503.59	3,503.59	101.15	6.49	J-8319
J-1127	500	3,500.00	503.59	3,503.59	36.17	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-1128	500	3,500.00	503.59	3,503.59	68.26	6.49	J-8319
J-113	500	3,500.00	503.59	3,503.59	28.57	6.49	J-8319
J-1130	500	3,500.00	503.59	3,503.59	74.3	6.49	J-8319
J-1131	500	3,500.00	503.59	3,503.59	82.58	6.49	J-8319
J-1132	500	3,500.00	503.59	3,503.59	82.56	6.49	J-8319
J-1133	500	3,500.00	503.59	3,503.59	66.32	6.49	J-8319
J-1136	500	3,500.00	503.59	3,503.59	49.7	6.49	J-8319
J-1137	500	3,500.00	503.59	3,503.59	46.05	6.49	J-8319
J-114	500	3,500.00	503.59	3,503.59	47.06	6.49	J-8319
J-115	500	3,500.00	503.59	3,503.59	67.81	6.49	J-8319
J-116	500	3,500.00	503.59	3,503.59	25.34	6.49	J-8319
J-1165	500	3,500.00	547.35	3,547.35	91	6.49	J-8319
J-117	500	3,500.00	503.59	3,503.59	57.66	6.49	J-8319
J-1178	500	3,500.00	500	3,500.00	71.26	6.49	J-8319
J-1179	500	3,500.00	507.02	3,507.02	61.39	6.49	J-8319
J-118	500	3,500.00	503.59	3,503.59	64.39	6.49	J-8319
J-1180	500	3,500.00	507.02	3,507.02	58.84	6.49	J-8319
J-1181	500	3,500.00	507.02	3,507.02	33.74	6.49	J-8319
J-1182	500	3,500.00	507.02	3,507.02	21.29	6.49	J-8319
J-1185	500	3,500.00	500	3,500.00	25.7	6.49	J-8319
J-1186	500	3,500.00	500	3,500.00	25.63	0.87	J-1296
J-1187	500	3,500.00	500	3,500.00	30	6.49	J-8319
J-1188	500	3,500.00	500	3,500.00	80.56	6.49	J-8319
J-1189	500	3,500.00	500	3,500.00	29.97	6.49	J-8319
J-119	500	3,500.00	503.59	3,503.59	56.51	6.49	J-8319
J-1190	500	3,500.00	500	3,500.00	80.6	6.49	J-8319
J-1192	500	3,500.00	500	3,500.00	80.65	6.49	J-8319
J-1193	500	3,500.00	500	3,500.00	90.88	6.49	J-8319
J-1194	500	3,500.00	500	3,500.00	30.22	0.87	J-1296
J-1196	500	3,500.00	500	3,500.00	87.25	6.49	J-8319
J-1198	500	3,500.00	500	3,500.00	86.93	6.49	J-8319
J-12	500	3,500.00	503.59	3,503.59	76.52	6.49	J-8319
J-120	500	3,500.00	503.59	3,503.59	50.26	6.49	J-8319
J-1205	500	3,500.00	500	3,500.00	86.01	6.49	J-8319
J-1206	500	3,500.00	500	3,500.00	60.48	6.49	J-8319
J-1207	500	3,500.00	500	3,500.00	61.4	6.49	J-8319
J-1208	500	3,500.00	500	3,500.00	65.55	6.49	J-8319
J-1209	500	3,500.00	500	3,500.00	71.24	6.49	J-8319
J-121	500	3,500.00	503.59	3,503.59	49.03	6.49	J-8319
J-1210	500	3,500.00	500	3,500.00	72.32	6.49	J-8319
J-1211	500	3,500.00	500	3,500.00	92.02	6.49	J-8319
J-1212	500	3,500.00	500	3,500.00	90.16	6.49	J-8319
J-1214	500	3,500.00	500	3,500.00	83.59	6.49	J-8319
J-1215	500	3,500.00	500	3,500.00	67.67	6.49	J-8319
J-1218	500	3,500.00	500	3,500.00	57.4	6.49	J-8319
J-1219	500	3,500.00	500	3,500.00	74.93	6.49	J-8319
J-122	500	3,500.00	503.59	3,503.59	53.34	6.49	J-8319
J-1224	500	3,500.00	500	3,500.00	43.34	6.49	J-8319
J-123	500	3,500.00	503.59	3,503.59	40.79	6.49	J-8319
J-124	500	3,500.00	503.59	3,503.59	43.55	6.49	J-8319
J-1240	500	3,500.00	500	3,500.00	43.53	6.49	J-8319
J-1241	500	3,500.00	507.33	3,507.33	30.57	6.49	J-8319
J-125	500	3,500.00	503.59	3,503.59	57.94	6.49	J-8319
J-126	500	3,500.00	503.59	3,503.59	75.22	6.49	J-8319
J-127	500	3,500.00	503.59	3,503.59	66.09	6.49	J-8319
J-1288	500	3,500.00	500	3,500.00	29.65	0.87	J-1296
J-1289	500	3,500.00	500	3,500.00	24.02	0.19	J-7718

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-129	500	3,500.00	503.59	3,503.59	26.37	6.49	J-8319
J-1294	500	3,500.00	500	3,500.00	40.58	0.87	J-1296
J-1295	500	3,500.00	500	3,500.00	41.7	0.87	J-1296
J-1297	500	3,500.00	500	3,500.00	31.42	0.19	J-7718
J-1298	500	3,500.00	500	3,500.00	23.1	0.19	J-7718
J-13	500	3,500.00	503.59	3,503.59	78.28	6.49	J-8319
J-131	500	3,500.00	523.68	3,523.68	80.01	6.49	J-8319
J-14	500	3,500.00	503.59	3,503.59	80.67	6.49	J-8319
J-15	500	3,500.00	503.59	3,503.59	75.57	6.49	J-8319
J-16	500	3,500.00	503.59	3,503.59	72.28	6.49	J-8319
J-17	500	3,500.00	503.59	3,503.59	80.53	6.49	J-8319
J-18	500	3,500.00	503.59	3,503.59	70.6	6.49	J-8319
J-19	500	3,500.00	503.59	3,503.59	86.91	6.49	J-8319
J-2	500	3,500.00	503.59	3,503.59	81.83	6.49	J-8319
J-20	500	3,500.00	503.59	3,503.59	94.35	6.49	J-8319
J-21	500	3,500.00	503.59	3,503.59	88.77	6.49	J-8319
J-2177	500	3,500.00	503.95	3,503.95	45.32	5.5	J-2184
J-2182	500	3,500.00	503.95	3,503.95	24.02	5.53	J-2184
J-2187	500	3,500.00	503.95	3,503.95	38.72	18.58	J-2502
J-2194	500	3,500.00	503.95	3,503.95	21.45	0.87	J-1296
J-22	500	3,500.00	503.59	3,503.59	84.8	6.49	J-8319
J-23	500	3,500.00	503.59	3,503.59	78.49	6.49	J-8319
J-2334	500	3,500.00	503.95	3,503.95	32.21	0.87	J-1296
J-2336	500	3,500.00	503.95	3,503.95	25.71	0.87	J-1296
J-2341	500	3,500.00	503.95	3,503.95	62.65	0.87	J-1296
J-2342	500	3,500.00	503.95	3,503.95	62.65	0.87	J-1296
J-2343	500	3,500.00	503.95	3,503.95	62.66	0.87	J-1296
J-2344	500	3,500.00	503.95	3,503.95	51.97	0.87	J-1296
J-2345	500	3,500.00	503.95	3,503.95	84.57	0.87	J-1296
J-24	500	3,500.00	503.59	3,503.59	71.38	6.49	J-8319
J-2491	500	3,500.00	503.95	3,503.95	27.37	0.87	J-1296
J-2560	500	3,500.00	503.95	3,503.95	39.94	6.49	J-8319
J-2563	500	3,500.00	503.95	3,503.95	23.53	0.87	J-1296
J-2564	500	3,500.00	503.95	3,503.95	27.49	0.87	J-1296
J-2574	500	3,500.00	503.95	3,503.95	52.44	42.41	J-2578
J-2575	500	3,500.00	503.95	3,503.95	40.11	39.93	J-2578
J-2576	500	3,500.00	500	3,500.00	39.83	39.74	J-2578
J-2577	500	3,500.00	500	3,500.00	84.61	0.87	J-1296
J-2578	500	3,500.00	500	3,500.00	39.47	39.47	J-2582
J-2579	500	3,500.00	500	3,500.00	84.61	0.87	J-1296
J-2580	500	3,500.00	500	3,500.00	39.6	39.59	J-2578
J-2581	500	3,500.00	500	3,500.00	84.63	0.87	J-1296
J-2582	500	3,500.00	500	3,500.00	39.4	39.47	J-2578
J-2583	500	3,500.00	500	3,500.00	121.19	6.49	J-8319
J-2586	500	3,500.00	500	3,500.00	52.68	42.57	J-2578
J-26	500	3,500.00	503.59	3,503.59	78.41	6.49	J-8319
J-2624	500	3,500.00	573.47	3,573.47	30.76	0.87	J-1296
J-2628	500	3,500.00	500	3,500.00	89.68	6.49	J-8319
J-2672	500	3,500.00	500	3,500.00	87	6.49	J-8319
J-27	500	3,500.00	503.59	3,503.59	83.69	6.49	J-8319
J-28	500	3,500.00	503.59	3,503.59	87.61	6.49	J-8319
J-29	500	3,500.00	503.59	3,503.59	83.17	6.49	J-8319
J-3	500	3,500.00	503.59	3,503.59	57	6.49	J-8319
J-30	500	3,500.00	503.59	3,503.59	86.15	6.49	J-8319
J-3000	500	3,500.00	503.71	3,503.71	28.26	18.66	J-3038
J-3001	500	3,500.00	503.71	3,503.71	23.29	17.93	J-3038
J-3002	500	3,500.00	503.71	3,503.71	29.9	17.07	J-3038

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-3003	500	3,500.00	503.71	3,503.71	34.14	16.43	J-3038
J-3004	500	3,500.00	503.71	3,503.71	25.51	16.69	J-3038
J-3005	500	3,500.00	503.71	3,503.71	42.54	12.73	J-3038
J-3006	500	3,500.00	503.71	3,503.71	40.58	9.72	J-3038
J-3010	500	3,500.00	503.71	3,503.71	35.95	2.59	J-3038
J-3041	500	3,500.00	503.71	3,503.71	53.69	6.49	J-8319
J-3042	500	3,500.00	503.71	3,503.71	54.01	6.49	J-8319
J-3043	500	3,500.00	503.71	3,503.71	62.78	6.49	J-8319
J-3045	500	3,500.00	503.71	3,503.71	54.88	6.49	J-8319
J-3046	500	3,500.00	500	3,500.00	28.3	6.49	J-8319
J-3047	500	3,500.00	503.71	3,503.71	55.51	6.49	J-8319
J-3048	500	3,500.00	503.71	3,503.71	53.6	6.49	J-8319
J-3049	500	3,500.00	503.71	3,503.71	44.79	6.49	J-8319
J-3050	500	3,500.00	503.71	3,503.71	52.15	6.49	J-8319
J-3052	500	3,500.00	503.71	3,503.71	25.53	9.15	J-3038
J-3053	500	3,500.00	1,333.00	4,333.00	62.63	6.49	J-8319
J-3054	500	3,500.00	542.9	3,542.90	65.84	6.49	J-8319
J-3055	500	3,500.00	500	3,500.00	66.5	6.49	J-8319
J-3072	500	3,500.00	500	3,500.00	32.39	6.49	J-8319
J-3073	500	3,500.00	529.98	3,529.98	46.8	6.49	J-8319
J-3074	500	3,500.00	529.98	3,529.98	23.9	6.49	J-8319
J-3081	500	3,500.00	529.98	3,529.98	27.76	6.49	J-8319
J-3082	500	3,500.00	500	3,500.00	58.07	6.49	J-8319
J-31	500	3,500.00	503.59	3,503.59	51.78	6.49	J-8319
J-33	500	3,500.00	503.59	3,503.59	68.22	6.49	J-8319
J-34	500	3,500.00	503.59	3,503.59	83.5	6.49	J-8319
J-36	500	3,500.00	503.59	3,503.59	79.48	6.49	J-8319
J-37	500	3,500.00	503.59	3,503.59	107.36	6.49	J-8319
J-38	500	3,500.00	503.59	3,503.59	103.9	6.49	J-8319
J-39	500	3,500.00	503.59	3,503.59	102.22	6.49	J-8319
J-4	500	3,500.00	503.59	3,503.59	48.43	6.49	J-8319
J-40	500	3,500.00	503.59	3,503.59	77.17	6.49	J-8319
J-4022	500	3,500.00	504.45	3,504.45	23.14	6.49	J-8319
J-4023	500	3,500.00	504.45	3,504.45	62.31	6.49	J-8319
J-4025	500	3,500.00	504.45	3,504.45	81.84	6.49	J-8319
J-4026	500	3,500.00	504.45	3,504.45	70.88	6.49	J-8319
J-4028	500	3,500.00	504.45	3,504.45	22.95	6.49	J-8319
J-4035	500	3,500.00	504.45	3,504.45	30.46	6.49	J-8319
J-4049	500	3,500.00	504.45	3,504.45	26.54	0.87	J-1296
J-4055	500	3,500.00	500	3,500.00	22.98	0.87	J-1296
J-4061	500	3,500.00	504.45	3,504.45	32.86	0.87	J-1296
J-4062	500	3,500.00	504.45	3,504.45	56.06	0.87	J-1296
J-4063	500	3,500.00	504.45	3,504.45	34.95	0.87	J-1296
J-4064	500	3,500.00	504.45	3,504.45	21.88	0.87	J-1296
J-407	500	3,500.00	503.59	3,503.59	64.28	6.49	J-8319
J-4076	500	3,500.00	504.45	3,504.45	22.26	0.87	J-1296
J-408	500	3,500.00	503.59	3,503.59	88.92	6.49	J-8319
J-4082	500	3,500.00	504.45	3,504.45	25.31	0.87	J-1296
J-4083	500	3,500.00	504.45	3,504.45	50.14	0.87	J-1296
J-4084	500	3,500.00	504.45	3,504.45	62.98	0.87	J-1296
J-4085	500	3,500.00	504.45	3,504.45	57.85	0.87	J-1296
J-4086	500	3,500.00	504.45	3,504.45	59.54	0.87	J-1296
J-4087	500	3,500.00	504.45	3,504.45	31.52	0.87	J-1296
J-4089	500	3,500.00	504.45	3,504.45	23.91	0.87	J-1296
J-409	500	3,500.00	503.59	3,503.59	71.16	6.49	J-8319
J-4091	500	3,500.00	504.45	3,504.45	30.49	0.87	J-1296
J-4092	500	3,500.00	504.45	3,504.45	74.38	0.87	J-1296

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4094	500	3,500.00	504.45	3,504.45	36.69	0.87	J-1296
J-4095	500	3,500.00	504.45	3,504.45	41.91	0.87	J-1296
J-41	500	3,500.00	503.59	3,503.59	75.57	6.49	J-8319
J-410	500	3,500.00	503.59	3,503.59	79.63	6.49	J-8319
J-4101	500	3,500.00	504.45	3,504.45	37.06	0.87	J-1296
J-4102	500	3,500.00	504.45	3,504.45	36.84	0.87	J-1296
J-4106	500	3,500.00	504.45	3,504.45	36.69	0.87	J-1296
J-4108	500	3,500.00	504.45	3,504.45	35.6	0.87	J-1296
J-411	500	3,500.00	503.59	3,503.59	66.69	6.49	J-8319
J-4112	500	3,500.00	504.45	3,504.45	73.7	6.49	J-8319
J-4113	500	3,500.00	504.45	3,504.45	21.31	6.49	J-8319
J-4114	500	3,500.00	504.45	3,504.45	73.73	6.49	J-8319
J-4116	500	3,500.00	504.45	3,504.45	69.78	6.49	J-8319
J-4117	500	3,500.00	504.45	3,504.45	59.5	6.49	J-8319
J-412	500	3,500.00	503.59	3,503.59	68.81	6.49	J-8319
J-4120	500	3,500.00	504.45	3,504.45	76	6.49	J-8319
J-4121	500	3,500.00	504.45	3,504.45	58.03	6.49	J-8319
J-4122	500	3,500.00	504.45	3,504.45	56.53	6.49	J-8319
J-4124	500	3,500.00	504.45	3,504.45	70.83	6.49	J-8319
J-4128	500	3,500.00	504.45	3,504.45	36.1	6.49	J-8319
J-4129	500	3,500.00	504.45	3,504.45	49.63	6.49	J-8319
J-413	500	3,500.00	503.59	3,503.59	54.76	6.49	J-8319
J-4130	500	3,500.00	504.45	3,504.45	50.54	6.49	J-8319
J-4131	500	3,500.00	504.45	3,504.45	61.05	6.49	J-8319
J-4132	500	3,500.00	504.45	3,504.45	69.4	6.49	J-8319
J-4133	500	3,500.00	504.45	3,504.45	28.6	6.49	J-8319
J-4134	500	3,500.00	504.45	3,504.45	73.45	6.49	J-8319
J-4137	500	3,500.00	504.45	3,504.45	58.38	6.49	J-8319
J-4138	500	3,500.00	504.45	3,504.45	77.83	6.49	J-8319
J-4139	500	3,500.00	504.45	3,504.45	73.53	6.49	J-8319
J-4149	500	3,500.00	504.45	3,504.45	74.76	6.49	J-8319
J-4150	500	3,500.00	504.45	3,504.45	79.09	6.49	J-8319
J-4151	500	3,500.00	504.45	3,504.45	62.11	6.49	J-8319
J-4152	500	3,500.00	504.45	3,504.45	30.27	0.87	J-1296
J-4175	500	3,500.00	504.45	3,504.45	23.79	0.87	J-1296
J-4186	500	3,500.00	504.45	3,504.45	101.09	0.87	J-1296
J-4187	500	3,500.00	504.45	3,504.45	91.51	0.87	J-1296
J-4188	500	3,500.00	504.45	3,504.45	91.38	0.87	J-1296
J-4189	500	3,500.00	504.45	3,504.45	90.8	0.87	J-1296
J-4190	500	3,500.00	504.45	3,504.45	90.31	0.87	J-1296
J-4191	500	3,500.00	504.45	3,504.45	86.52	0.87	J-1296
J-4192	500	3,500.00	504.45	3,504.45	51.45	20.35	J-2502
J-4193	500	3,500.00	504.45	3,504.45	73.54	0.87	J-1296
J-4194	500	3,500.00	504.45	3,504.45	81.96	0.87	J-1296
J-4195	500	3,500.00	504.45	3,504.45	78.36	0.87	J-1296
J-4196	500	3,500.00	504.45	3,504.45	79.99	0.87	J-1296
J-4197	500	3,500.00	504.45	3,504.45	55.58	0.87	J-1296
J-4198	500	3,500.00	504.45	3,504.45	33.6	0.87	J-1296
J-4199	500	3,500.00	500	3,500.00	105.53	0.87	J-1296
J-42	500	3,500.00	503.59	3,503.59	80.54	6.49	J-8319
J-4200	500	3,500.00	504.45	3,504.45	101.18	0.87	J-1296
J-4201	500	3,500.00	504.45	3,504.45	101.83	0.87	J-1296
J-4202	500	3,500.00	504.45	3,504.45	101.32	0.87	J-1296
J-4203	500	3,500.00	504.45	3,504.45	84.7	20.32	J-2502
J-4206	500	3,500.00	504.45	3,504.45	46.25	20.37	J-2502
J-4208	500	3,500.00	504.45	3,504.45	29.1	17.3	J-4214
J-4213	500	3,500.00	504.45	3,504.45	84.74	20.27	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4218	500	3,500.00	504.45	3,504.45	20.98	0.21	J-4219
J-4220	500	3,500.00	504.45	3,504.45	45.98	20.41	J-2502
J-4221	500	3,500.00	504.45	3,504.45	20.96	6.51	J-4214
J-4233	500	3,500.00	504.45	3,504.45	51.56	19.89	J-2502
J-4236	500	3,500.00	504.45	3,504.45	39.35	11.1	J-4238
J-4241	500	3,500.00	504.45	3,504.45	39	16.92	J-4264
J-4261	500	3,500.00	504.45	3,504.45	37.39	16.28	J-4264
J-4262	500	3,500.00	504.45	3,504.45	32.8	19.72	J-2502
J-4263	500	3,500.00	504.45	3,504.45	37.14	15.47	J-4264
J-4272	500	3,500.00	504.45	3,504.45	35.26	20.36	J-4264
J-4274	500	3,500.00	504.45	3,504.45	43.91	19.71	J-4264
J-4280	500	3,500.00	504.45	3,504.45	40.45	17.07	J-4264
J-4281	500	3,500.00	504.45	3,504.45	54.26	20.51	J-2502
J-4282	500	3,500.00	504.45	3,504.45	55.82	20.66	J-2502
J-4284	500	3,500.00	504.45	3,504.45	41.31	20.24	J-4264
J-4286	500	3,500.00	504.45	3,504.45	48.27	20.54	J-4264
J-4291	500	3,500.00	504.45	3,504.45	50.52	20.43	J-4264
J-4293	500	3,500.00	504.45	3,504.45	56.06	20.58	J-2502
J-4294	500	3,500.00	504.45	3,504.45	68.66	18.8	J-2502
J-4295	500	3,500.00	504.45	3,504.45	65.91	19.05	J-2502
J-4297	500	3,500.00	504.45	3,504.45	27.05	19.51	J-2502
J-43	500	3,500.00	503.59	3,503.59	79.42	6.49	J-8319
J-4301	500	3,500.00	504.45	3,504.45	58.85	19.31	J-2502
J-4319	500	3,500.00	504.45	3,504.45	63.47	19.43	J-2502
J-4330	500	3,500.00	504.45	3,504.45	53.65	14.51	J-2502
J-4332	500	3,500.00	504.45	3,504.45	67.81	18.08	J-2502
J-4333	500	3,500.00	504.45	3,504.45	69.36	17.81	J-2502
J-4334	500	3,500.00	504.45	3,504.45	67.13	17.46	J-2502
J-4335	500	3,500.00	504.45	3,504.45	66.6	17.2	J-2502
J-4336	500	3,500.00	504.45	3,504.45	65.35	14.86	J-2502
J-4337	500	3,500.00	504.45	3,504.45	63.11	13.56	J-2502
J-4338	500	3,500.00	504.45	3,504.45	64.38	13.5	J-2502
J-4339	500	3,500.00	504.45	3,504.45	63.97	13.47	J-2502
J-4340	500	3,500.00	504.45	3,504.45	37.19	18.38	J-2502
J-4341	500	3,500.00	504.45	3,504.45	29.73	18.57	J-2502
J-4343	500	3,500.00	504.45	3,504.45	33.73	18.74	J-2502
J-4345	500	3,500.00	504.45	3,504.45	66.59	19.07	J-2502
J-4346	500	3,500.00	504.45	3,504.45	25.31	18.27	J-2502
J-4348	500	3,500.00	504.45	3,504.45	26.61	16.52	J-2502
J-4349	500	3,500.00	504.45	3,504.45	22.58	15.71	J-2502
J-4350	500	3,500.00	504.45	3,504.45	63.37	18.85	J-2502
J-4357	500	3,500.00	504.45	3,504.45	47.8	15.77	J-2502
J-4375	500	3,500.00	504.45	3,504.45	27.19	20.39	J-2502
J-4376	500	3,500.00	504.45	3,504.45	35.09	20.48	J-2502
J-4382	500	3,500.00	504.45	3,504.45	23.55	19.28	J-2502
J-4383	500	3,500.00	504.45	3,504.45	52.38	20.96	J-2502
J-4384	500	3,500.00	504.45	3,504.45	39.14	20.96	J-2502
J-4385	500	3,500.00	504.45	3,504.45	47.89	21.29	J-2502
J-4388	500	3,500.00	504.45	3,504.45	22.47	21.03	J-4387
J-44	500	3,500.00	503.59	3,503.59	82.62	6.49	J-8319
J-4402	500	3,500.00	504.45	3,504.45	29.95	20.5	J-2502
J-4403	500	3,500.00	504.45	3,504.45	31.27	20.67	J-2502
J-4409	500	3,500.00	504.45	3,504.45	59.42	20.15	J-2502
J-4410	500	3,500.00	504.45	3,504.45	58.68	19.79	J-2502
J-4411	500	3,500.00	504.45	3,504.45	47.19	19.71	J-2502
J-4412	500	3,500.00	504.45	3,504.45	38.54	19.2	J-2502
J-4413	500	3,500.00	504.45	3,504.45	51.72	18.71	J-2502



Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4414	500	3,500.00	504.45	3,504.45	40.62	18.78	J-2502
J-4415	500	3,500.00	504.45	3,504.45	33.1	18.81	J-2502
J-4418	500	3,500.00	504.45	3,504.45	30.7	18.83	J-2502
J-4420	500	3,500.00	504.45	3,504.45	32.63	18.8	J-2502
J-4421	500	3,500.00	504.45	3,504.45	43.71	18.75	J-2502
J-4427	500	3,500.00	504.45	3,504.45	64.4	18.96	J-2502
J-4428	500	3,500.00	504.45	3,504.45	66.38	18.37	J-2502
J-4429	500	3,500.00	504.45	3,504.45	39.61	16.51	J-2502
J-4430	500	3,500.00	504.45	3,504.45	65.26	17.78	J-2502
J-4439	500	3,500.00	504.45	3,504.45	65.61	17.69	J-2502
J-4440	500	3,500.00	504.45	3,504.45	65.93	17.61	J-2502
J-4441	500	3,500.00	504.45	3,504.45	40.87	17.11	J-2502
J-4452	500	3,500.00	504.45	3,504.45	25.65	11.84	J-2502
J-4453	500	3,500.00	504.45	3,504.45	26.87	11.83	J-2502
J-4458	500	3,500.00	504.45	3,504.45	30.79	11.82	J-2502
J-4459	500	3,500.00	504.45	3,504.45	38.76	11.83	J-2502
J-4464	500	3,500.00	504.45	3,504.45	59.25	7.04	J-2502
J-4468	500	3,500.00	504.45	3,504.45	35.01	11.87	J-2502
J-4469	500	3,500.00	504.45	3,504.45	42.8	11.56	J-2502
J-4470	500	3,500.00	504.45	3,504.45	47.01	11.63	J-2502
J-4475	500	3,500.00	504.45	3,504.45	53.12	12.22	J-2502
J-4476	500	3,500.00	504.45	3,504.45	51.58	11.95	J-2502
J-4477	500	3,500.00	504.45	3,504.45	48.03	11.67	J-2502
J-4478	500	3,500.00	504.45	3,504.45	40.69	12.43	J-2502
J-4482	500	3,500.00	504.45	3,504.45	60.21	12.61	J-2502
J-4483	500	3,500.00	504.45	3,504.45	63.25	12.45	J-2502
J-4484	500	3,500.00	504.45	3,504.45	60.17	11.63	J-2502
J-4485	500	3,500.00	504.45	3,504.45	62.42	11.32	J-2502
J-4486	500	3,500.00	504.45	3,504.45	58.91	11.3	J-2502
J-4487	500	3,500.00	504.45	3,504.45	60.11	11.13	J-2502
J-4488	500	3,500.00	504.45	3,504.45	55.9	11.02	J-2502
J-4489	500	3,500.00	504.45	3,504.45	65.35	10.99	J-2502
J-4490	500	3,500.00	504.45	3,504.45	56.94	11.41	J-2502
J-4491	500	3,500.00	504.45	3,504.45	39.34	11.99	J-2502
J-4492	500	3,500.00	504.45	3,504.45	39.43	12.43	J-2502
J-4498	500	3,500.00	504.45	3,504.45	28.3	6.57	J-2502
J-4499	500	3,500.00	504.45	3,504.45	63.17	7.61	J-2502
J-45	500	3,500.00	503.59	3,503.59	64.87	6.49	J-8319
J-4506	500	3,500.00	504.45	3,504.45	21.46	8.67	J-2502
J-4507	500	3,500.00	504.45	3,504.45	66.46	8	J-2502
J-4512	500	3,500.00	504.45	3,504.45	58.07	8.97	J-2502
J-4513	500	3,500.00	504.45	3,504.45	58.96	9.99	J-2502
J-4514	500	3,500.00	504.45	3,504.45	31.32	10.47	J-2502
J-4517	500	3,500.00	504.45	3,504.45	64.13	8.7	J-2502
J-4518	500	3,500.00	504.45	3,504.45	65.76	8.3	J-2502
J-4521	500	3,500.00	504.45	3,504.45	50.97	8.31	J-2502
J-4528	500	3,500.00	504.45	3,504.45	57.43	10.71	J-2502
J-4529	500	3,500.00	504.45	3,504.45	61.7	10.6	J-2502
J-4530	500	3,500.00	504.45	3,504.45	22.95	10.71	J-2502
J-4532	500	3,500.00	504.45	3,504.45	29.37	11.42	J-2502
J-4533	500	3,500.00	504.45	3,504.45	61.53	12.63	J-2502
J-4534	500	3,500.00	504.45	3,504.45	64.15	13.04	J-2502
J-4539	500	3,500.00	504.45	3,504.45	65.81	13.35	J-2502
J-4540	500	3,500.00	504.45	3,504.45	62.16	12.23	J-2502
J-4545	500	3,500.00	504.45	3,504.45	79.06	6.49	J-8319
J-4547	500	3,500.00	504.45	3,504.45	38.19	21.69	J-2502
J-4550	500	3,500.00	504.45	3,504.45	33.17	9.57	J-2502

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-4551	500	3,500.00	504.45	3,504.45	48.75	8.8	J-2502
J-4552	500	3,500.00	504.45	3,504.45	29.14	8.96	J-2502
J-4553	500	3,500.00	504.45	3,504.45	63.98	11.12	J-2502
J-4554	500	3,500.00	504.45	3,504.45	58.47	11.42	J-2502
J-4555	500	3,500.00	504.45	3,504.45	58.73	15.28	J-2502
J-4556	500	3,500.00	504.45	3,504.45	47.46	15.96	J-2502
J-4557	500	3,500.00	504.45	3,504.45	69.65	16.01	J-2502
J-4558	500	3,500.00	504.45	3,504.45	66.02	18.56	J-2502
J-4560	500	3,500.00	504.45	3,504.45	30.14	0.87	J-1296
J-4561	500	3,500.00	504.45	3,504.45	26.88	0.87	J-1296
J-4562	500	3,500.00	504.45	3,504.45	29.2	0.87	J-1296
J-4564	500	3,500.00	504.45	3,504.45	31.98	0.87	J-1296
J-4569	500	3,500.00	504.45	3,504.45	31	0.87	J-1296
J-4573	500	3,500.00	504.45	3,504.45	41.96	0.87	J-1296
J-4575	500	3,500.00	504.45	3,504.45	101.08	0.87	J-1296
J-4576	500	3,500.00	504.45	3,504.45	102.29	0.87	J-1296
J-4577	500	3,500.00	504.45	3,504.45	95.59	0.87	J-1296
J-4578	500	3,500.00	504.45	3,504.45	91.89	0.87	J-1296
J-4579	500	3,500.00	504.45	3,504.45	61.06	14.98	J-2502
J-4580	500	3,500.00	504.45	3,504.45	65.52	15.13	J-2502
J-4581	500	3,500.00	519.26	3,519.26	50.6	0.87	J-1296
J-4582	500	3,500.00	581.61	3,581.61	31.48	0.87	J-1296
J-4583	500	3,500.00	533.45	3,533.45	38.34	21.55	J-2502
J-4584	500	3,500.00	855.06	3,855.06	50.33	14.51	J-2502
J-4585	500	3,500.00	504.45	3,504.45	50.64	6.49	J-8319
J-4587	500	3,500.00	500	3,500.00	54.12	0.87	J-1296
J-4588	500	3,500.00	503.51	3,503.51	22.83	0.87	J-1296
J-4598	500	3,500.00	500	3,500.00	73.67	6.49	J-8319
J-4599	500	3,500.00	500	3,500.00	83.45	6.49	J-8319
J-46	500	3,500.00	503.59	3,503.59	81.89	6.49	J-8319
J-4600	500	3,500.00	500	3,500.00	67.39	6.49	J-8319
J-4602	500	3,500.00	546.82	3,546.82	82.2	6.49	J-8319
J-4603	500	3,500.00	500	3,500.00	72.9	6.49	J-8319
J-4604	500	3,500.00	500	3,500.00	68.36	6.49	J-8319
J-4606	500	3,500.00	500	3,500.00	78.1	6.49	J-8319
J-4607	500	3,500.00	500	3,500.00	58.51	6.49	J-8319
J-4608	500	3,500.00	500	3,500.00	63.81	6.49	J-8319
J-4609	500	3,500.00	500	3,500.00	63.6	6.49	J-8319
J-4610	500	3,500.00	500	3,500.00	63.15	6.49	J-8319
J-4611	500	3,500.00	500	3,500.00	61.83	6.49	J-8319
J-4612	500	3,500.00	500	3,500.00	62.67	6.49	J-8319
J-4613	500	3,500.00	500	3,500.00	32.54	6.49	J-8319
J-4620	500	3,500.00	500	3,500.00	60.66	6.49	J-8319
J-4621	500	3,500.00	500	3,500.00	63.24	6.49	J-8319
J-4623	500	3,500.00	500	3,500.00	23.82	0.87	J-1296
J-4645	500	3,500.00	502.62	3,502.62	71.12	6.49	J-8319
J-4646	500	3,500.00	502.62	3,502.62	53.07	6.49	J-8319
J-4653	500	3,500.00	504.45	3,504.45	59.76	6.49	J-8319
J-4661	500	3,500.00	504.45	3,504.45	33.81	0.87	J-1296
J-4667	500	3,500.00	500	3,500.00	23.53	0.87	J-1296
J-4682	500	3,500.00	533.51	3,533.51	67.94	6.49	J-8319
J-47	500	3,500.00	503.59	3,503.59	57.64	6.49	J-8319
J-48	500	3,500.00	503.59	3,503.59	61.17	6.49	J-8319
J-49	500	3,500.00	503.59	3,503.59	65.51	6.49	J-8319
J-5	500	3,500.00	503.59	3,503.59	65.26	6.49	J-8319
J-50	500	3,500.00	503.59	3,503.59	78.47	6.49	J-8319
J-5011	500	3,500.00	503.31	3,503.31	24.98	20.45	J-5004

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-5012	500	3,500.00	503.31	3,503.31	24.07	20.67	J-5004
J-5013	500	3,500.00	503.31	3,503.31	41.48	29.04	J-5004
J-5014	500	3,500.00	503.31	3,503.31	35.34	25.64	J-5004
J-5015	500	3,500.00	503.31	3,503.31	24.27	22.22	J-5004
J-5016	500	3,500.00	503.31	3,503.31	37.07	29.51	J-5004
J-5017	500	3,500.00	503.31	3,503.31	57.81	37.46	J-5004
J-5018	500	3,500.00	503.31	3,503.31	50.86	35.88	J-5004
J-5019	500	3,500.00	503.31	3,503.31	46.18	35.17	J-5004
J-5039	500	3,500.00	503.31	3,503.31	58.03	40.51	J-166
J-5041	500	3,500.00	503.31	3,503.31	67.89	40.51	J-166
J-5042	500	3,500.00	503.31	3,503.31	31.26	21.3	J-5126
J-5046	500	3,500.00	503.31	3,503.31	50.76	28.73	J-166
J-5047	500	3,500.00	503.31	3,503.31	37.39	28.73	J-166
J-5048	500	3,500.00	503.31	3,503.31	46.81	24.83	J-166
J-5049	500	3,500.00	503.31	3,503.31	29.01	24.83	J-166
J-5050	500	3,500.00	503.31	3,503.31	39.21	16.89	J-166
J-5052	500	3,500.00	503.31	3,503.31	45.5	20.98	J-166
J-5053	500	3,500.00	503.31	3,503.31	30.54	20.98	J-166
J-5055	500	3,500.00	503.31	3,503.31	20.74	15.98	J-5056
J-51	500	3,500.00	503.59	3,503.59	95.64	6.49	J-8319
J-5125	500	3,500.00	503.31	3,503.31	70.51	43.06	J-166
J-5133	500	3,500.00	503.31	3,503.31	22.4	21.23	J-5004
J-52	500	3,500.00	503.59	3,503.59	91.67	6.49	J-8319
J-54	500	3,500.00	503.59	3,503.59	86.92	6.49	J-8319
J-55	500	3,500.00	503.59	3,503.59	86.8	6.49	J-8319
J-556	500	3,500.00	503.59	3,503.59	32.32	0.82	J-7718
J-557	500	3,500.00	503.59	3,503.59	30.87	0.8	J-7718
J-559	500	3,500.00	503.59	3,503.59	26.85	0.73	J-7718
J-56	500	3,500.00	503.59	3,503.59	86.94	6.49	J-8319
J-561	500	3,500.00	503.59	3,503.59	21.54	0.69	J-7718
J-57	500	3,500.00	503.59	3,503.59	71.54	6.49	J-8319
J-58	500	3,500.00	503.59	3,503.59	85.15	6.49	J-8319
J-580	500	3,500.00	503.59	3,503.59	31.51	0.87	J-1296
J-587	500	3,500.00	503.59	3,503.59	21.87	0.87	J-1296
J-588	500	3,500.00	503.59	3,503.59	28.37	0.87	J-1296
J-589	500	3,500.00	503.59	3,503.59	30.54	0.87	J-1296
J-59	500	3,500.00	503.59	3,503.59	82.1	6.49	J-8319
J-590	500	3,500.00	503.59	3,503.59	25.99	0.87	J-1296
J-591	500	3,500.00	503.59	3,503.59	29.83	0.86	J-7718
J-593	500	3,500.00	503.59	3,503.59	26.96	0.87	J-1296
J-6	500	3,500.00	503.59	3,503.59	66.3	6.49	J-8319
J-60	500	3,500.00	503.59	3,503.59	78.62	6.49	J-8319
J-6055	500	3,500.00	500	3,500.00	22.49	0.87	J-1296
J-6060	500	3,500.00	500	3,500.00	22.34	0.87	J-1296
J-6061	500	3,500.00	500	3,500.00	22.34	0.87	J-1296
J-6062	500	3,500.00	500	3,500.00	22.34	0.87	J-1296
J-6063	500	3,500.00	500	3,500.00	22.34	0.87	J-1296
J-6082	500	3,500.00	500	3,500.00	22.33	0.87	J-1296
J-617	500	3,500.00	503.59	3,503.59	26.87	0.87	J-1296
J-619	500	3,500.00	503.59	3,503.59	24.39	0.87	J-1296
J-62	500	3,500.00	503.59	3,503.59	76.07	6.49	J-8319
J-623	500	3,500.00	503.59	3,503.59	32.96	0.87	J-1296
J-624	500	3,500.00	500	3,500.00	35.55	0.87	J-1296
J-625	500	3,500.00	500	3,500.00	33.89	0.87	J-1296
J-626	500	3,500.00	503.59	3,503.59	30.23	0.87	J-1296
J-627	500	3,500.00	503.59	3,503.59	30.05	0.81	J-7718
J-63	500	3,500.00	503.59	3,503.59	71.11	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-64	500	3,500.00	503.59	3,503.59	76.8	6.49	J-8319
J-66	500	3,500.00	503.59	3,503.59	79.44	6.49	J-8319
J-67	500	3,500.00	503.59	3,503.59	71.72	6.49	J-8319
J-68	500	3,500.00	503.59	3,503.59	70.93	6.49	J-8319
J-683	500	3,500.00	503.59	3,503.59	91.12	0.08	J-7718
J-684	500	3,500.00	503.59	3,503.59	61.7	0.07	J-7718
J-685	500	3,500.00	503.59	3,503.59	90.08	0.09	J-7718
J-686	500	3,500.00	503.59	3,503.59	69.12	0.16	J-7718
J-687	500	3,500.00	503.59	3,503.59	68.67	0.19	J-7718
J-688	500	3,500.00	503.59	3,503.59	61	0.22	J-7718
J-689	500	3,500.00	503.59	3,503.59	53	0.28	J-7718
J-69	500	3,500.00	503.59	3,503.59	76.92	6.49	J-8319
J-690	500	3,500.00	503.59	3,503.59	53.12	0.2	J-7718
J-691	500	3,500.00	503.59	3,503.59	38.81	0.2	J-7718
J-692	500	3,500.00	503.59	3,503.59	49.01	0.2	J-7718
J-693	500	3,500.00	503.59	3,503.59	63.07	0.19	J-7718
J-694	500	3,500.00	503.59	3,503.59	35.3	0.22	J-7718
J-698	500	3,500.00	503.59	3,503.59	40.92	0.29	J-7718
J-699	500	3,500.00	503.59	3,503.59	44.16	0.17	J-7718
J-7	500	3,500.00	503.59	3,503.59	64.96	6.49	J-8319
J-70	500	3,500.00	503.59	3,503.59	50.13	6.49	J-8319
J-700	500	3,500.00	503.59	3,503.59	42.41	0.23	J-7718
J-701	500	3,500.00	503.59	3,503.59	35.05	0.43	J-7718
J-702	500	3,500.00	503.59	3,503.59	52.2	0.36	J-7718
J-703	500	3,500.00	503.59	3,503.59	34.89	0.53	J-7718
J-704	500	3,500.00	503.59	3,503.59	43.04	0.87	J-1296
J-705	500	3,500.00	500	3,500.00	45.52	0.87	J-1296
J-706	500	3,500.00	500	3,500.00	47.03	0.87	J-1296
J-707	500	3,500.00	503.59	3,503.59	43.74	0.87	J-1296
J-708	500	3,500.00	503.59	3,503.59	33.05	0.87	J-1296
J-710	500	3,500.00	503.59	3,503.59	45.34	0.87	J-1296
J-712	500	3,500.00	503.59	3,503.59	45.5	0.87	J-1296
J-7125	500	3,500.00	503.04	3,503.04	40.25	9.35	J-7102
J-7126	500	3,500.00	503.04	3,503.04	41.4	18.73	J-7102
J-7127	500	3,500.00	503.04	3,503.04	43.8	27.11	J-7102
J-7128	500	3,500.00	503.04	3,503.04	50.47	30.22	J-3038
J-7129	500	3,500.00	503.04	3,503.04	62.12	34.01	J-3038
J-713	500	3,500.00	503.59	3,503.59	30.47	0.87	J-1296
J-7142	500	3,500.00	500	3,500.00	33.43	6.95	J-8307
J-7143	500	3,500.00	503.04	3,503.04	36.98	6.95	J-8307
J-7144	500	3,500.00	503.04	3,503.04	40.19	4.86	J-8058
J-7145	500	3,500.00	503.04	3,503.04	38.49	4.86	J-8058
J-719	500	3,500.00	503.59	3,503.59	33.62	0.87	J-1296
J-721	500	3,500.00	503.59	3,503.59	31.54	0.87	J-1296
J-722	500	3,500.00	503.59	3,503.59	21.84	0.87	J-1296
J-733	500	3,500.00	503.59	3,503.59	40.9	0.31	J-7718
J-7373	500	3,500.00	503.04	3,503.04	64.26	6.49	J-8319
J-740	500	3,500.00	503.59	3,503.59	21.06	0.12	J-7718
J-741	500	3,500.00	503.59	3,503.59	20.25	0.06	J-7718
J-742	500	3,500.00	503.59	3,503.59	29.79	0.01	J-7718
J-750	500	3,500.00	503.59	3,503.59	44.92	0.12	J-7718
J-751	500	3,500.00	503.59	3,503.59	59.13	0.07	J-7718
J-752	500	3,500.00	503.59	3,503.59	73	0.02	J-7718
J-760	500	3,500.00	503.59	3,503.59	82.84	0.01	J-7718
J-7972	500	3,500.00	503.04	3,503.04	93.68	6.49	J-8319
J-7973	500	3,500.00	503.04	3,503.04	91.41	6.49	J-8319
J-7974	500	3,500.00	503.04	3,503.04	48.12	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-7975	500	3,500.00	503.04	3,503.04	22.45	6.49	J-8319
J-7976	500	3,500.00	503.04	3,503.04	89.1	6.49	J-8319
J-7977	500	3,500.00	503.04	3,503.04	94.68	6.49	J-8319
J-7978	500	3,500.00	503.04	3,503.04	85.38	6.49	J-8319
J-7979	500	3,500.00	503.04	3,503.04	79.62	6.49	J-8319
J-7980	500	3,500.00	503.04	3,503.04	88.75	6.49	J-8319
J-7986	500	3,500.00	503.04	3,503.04	86.8	6.49	J-8319
J-7987	500	3,500.00	503.04	3,503.04	87.5	6.49	J-8319
J-7988	500	3,500.00	503.04	3,503.04	87.2	6.49	J-8319
J-7989	500	3,500.00	503.04	3,503.04	80.3	6.49	J-8319
J-7990	500	3,500.00	503.04	3,503.04	80.71	6.49	J-8319
J-7991	500	3,500.00	503.04	3,503.04	82.62	6.49	J-8319
J-7992	500	3,500.00	503.04	3,503.04	86.64	6.49	J-8319
J-7993	500	3,500.00	503.04	3,503.04	53.18	6.49	J-8319
J-7994	500	3,500.00	503.04	3,503.04	26.31	6.49	J-8319
J-7996	500	3,500.00	503.04	3,503.04	81.29	6.49	J-8319
J-7997	500	3,500.00	503.04	3,503.04	80.54	6.49	J-8319
J-7998	500	3,500.00	503.04	3,503.04	42.19	6.49	J-8319
J-7999	500	3,500.00	503.04	3,503.04	33.15	6.49	J-8319
J-8	500	3,500.00	503.59	3,503.59	72.7	6.49	J-8319
J-8001	500	3,500.00	503.04	3,503.04	63.27	6.49	J-8319
J-8002	500	3,500.00	503.04	3,503.04	63.46	6.49	J-8319
J-8003	500	3,500.00	503.04	3,503.04	64.87	6.49	J-8319
J-8004	500	3,500.00	503.04	3,503.04	27.21	6.49	J-8319
J-8005	500	3,500.00	503.04	3,503.04	62.31	6.49	J-8319
J-8006	500	3,500.00	503.04	3,503.04	33.9	6.49	J-8319
J-8007	500	3,500.00	503.04	3,503.04	26.97	6.49	J-8319
J-8009	500	3,500.00	503.04	3,503.04	35.31	6.49	J-8319
J-8010	500	3,500.00	503.04	3,503.04	39.6	6.49	J-8319
J-8012	500	3,500.00	503.04	3,503.04	65.05	6.49	J-8319
J-8013	500	3,500.00	503.04	3,503.04	64.54	6.49	J-8319
J-8014	500	3,500.00	503.04	3,503.04	100.8	6.49	J-8319
J-8015	500	3,500.00	503.04	3,503.04	97.32	6.49	J-8319
J-8016	500	3,500.00	503.04	3,503.04	100.82	6.49	J-8319
J-8017	500	3,500.00	503.04	3,503.04	106.53	6.49	J-8319
J-8018	500	3,500.00	503.04	3,503.04	106.74	6.49	J-8319
J-8019	500	3,500.00	503.04	3,503.04	104.72	6.49	J-8319
J-8020	500	3,500.00	503.04	3,503.04	103.84	6.49	J-8319
J-8021	500	3,500.00	503.04	3,503.04	95.43	6.49	J-8319
J-8022	500	3,500.00	503.04	3,503.04	98.52	6.49	J-8319
J-8023	500	3,500.00	503.04	3,503.04	93.66	6.49	J-8319
J-8024	500	3,500.00	503.04	3,503.04	92.02	6.49	J-8319
J-8025	500	3,500.00	503.04	3,503.04	90.52	6.49	J-8319
J-8026	500	3,500.00	503.04	3,503.04	88.17	6.49	J-8319
J-8027	500	3,500.00	503.04	3,503.04	40.53	6.49	J-8319
J-8037	500	3,500.00	500	3,500.00	103.9	6.49	J-8319
J-8039	500	3,500.00	500	3,500.00	103.92	6.49	J-8319
J-8041	500	3,500.00	500	3,500.00	103.87	6.49	J-8319
J-8043	500	3,500.00	500	3,500.00	103.44	6.49	J-8319
J-8054	500	3,500.00	503.04	3,503.04	33.47	23.44	J-3038
J-8055	500	3,500.00	503.04	3,503.04	62.42	6.49	J-8319
J-8056	500	3,500.00	503.04	3,503.04	65.57	34.95	J-3038
J-8057	500	3,500.00	503.04	3,503.04	69.39	6.49	J-8319
J-8089	500	3,500.00	503.04	3,503.04	26.07	6.49	J-8319
J-8090	500	3,500.00	503.04	3,503.04	48.18	6.49	J-8319
J-8091	500	3,500.00	503.04	3,503.04	80.3	6.49	J-8319
J-8092	500	3,500.00	503.04	3,503.04	86.28	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-8139	500	3,500.00	503.04	3,503.04	45.31	28.54	J-7102
J-8145	500	3,500.00	500	3,500.00	64.73	6.49	J-8319
J-8146	500	3,500.00	506.24	3,506.24	43.4	6.49	J-8319
J-8147	500	3,500.00	506.24	3,506.24	26.91	6.49	J-8319
J-8162	500	3,500.00	500	3,500.00	64.17	6.49	J-8319
J-8163	500	3,500.00	500	3,500.00	37.59	6.49	J-8319
J-8170	500	3,500.00	500	3,500.00	69.09	6.49	J-8319
J-8171	500	3,500.00	500	3,500.00	75.64	6.49	J-8319
J-8172	500	3,500.00	504.88	3,504.88	67.56	6.49	J-8319
J-8173	500	3,500.00	513.32	3,513.32	65.71	6.49	J-8319
J-8174	500	3,500.00	505.85	3,505.85	66.48	6.49	J-8319
J-8175	500	3,500.00	500	3,500.00	60.5	6.49	J-8319
J-8176	500	3,500.00	500	3,500.00	61.93	6.49	J-8319
J-8177	500	3,500.00	506.53	3,506.53	73.22	6.49	J-8319
J-8178	500	3,500.00	506.53	3,506.53	63.42	6.49	J-8319
J-8179	500	3,500.00	506.53	3,506.53	38.8	6.49	J-8319
J-8180	500	3,500.00	506.53	3,506.53	56.37	6.49	J-8319
J-8181	500	3,500.00	506.53	3,506.53	38.78	6.49	J-8319
J-8182	500	3,500.00	506.53	3,506.53	69.64	6.49	J-8319
J-8183	500	3,500.00	506.53	3,506.53	55.57	6.49	J-8319
J-8184	500	3,500.00	506.53	3,506.53	66.53	6.49	J-8319
J-8185	500	3,500.00	506.53	3,506.53	45.43	6.49	J-8319
J-8186	500	3,500.00	506.53	3,506.53	64.99	6.49	J-8319
J-8187	500	3,500.00	506.53	3,506.53	43.89	6.49	J-8319
J-8188	500	3,500.00	506.53	3,506.53	64.05	6.49	J-8319
J-8189	500	3,500.00	506.53	3,506.53	60.93	6.49	J-8319
J-8190	500	3,500.00	506.53	3,506.53	43.35	6.49	J-8319
J-8191	500	3,500.00	506.53	3,506.53	59.92	6.49	J-8319
J-8192	500	3,500.00	506.53	3,506.53	45.85	6.49	J-8319
J-8193	500	3,500.00	506.53	3,506.53	59.18	6.49	J-8319
J-8194	500	3,500.00	506.53	3,506.53	44.4	6.49	J-8319
J-8195	500	3,500.00	506.53	3,506.53	62.46	6.49	J-8319
J-8196	500	3,500.00	506.53	3,506.53	61.91	6.49	J-8319
J-8197	500	3,500.00	506.53	3,506.53	40.81	6.49	J-8319
J-8198	500	3,500.00	506.53	3,506.53	64.31	6.49	J-8319
J-8199	500	3,500.00	506.53	3,506.53	64.34	6.49	J-8319
J-8200	500	3,500.00	506.53	3,506.53	63.03	6.49	J-8319
J-8201	500	3,500.00	506.53	3,506.53	64.17	6.49	J-8319
J-8202	500	3,500.00	506.53	3,506.53	37.86	6.49	J-8319
J-8203	500	3,500.00	506.53	3,506.53	65.63	6.49	J-8319
J-8204	500	3,500.00	506.53	3,506.53	59.96	6.49	J-8319
J-8205	500	3,500.00	506.53	3,506.53	52.92	6.49	J-8319
J-8206	500	3,500.00	506.53	3,506.53	55.04	6.49	J-8319
J-8207	500	3,500.00	506.53	3,506.53	69.13	6.49	J-8319
J-8208	500	3,500.00	506.53	3,506.53	76.95	6.49	J-8319
J-8209	500	3,500.00	506.53	3,506.53	51.73	6.49	J-8319
J-8210	500	3,500.00	506.53	3,506.53	61.63	6.49	J-8319
J-8211	500	3,500.00	506.53	3,506.53	79.44	6.49	J-8319
J-8212	500	3,500.00	500	3,500.00	68.37	6.49	J-8319
J-8213	500	3,500.00	500	3,500.00	62.82	6.49	J-8319
J-8214	500	3,500.00	500	3,500.00	60.34	6.49	J-8319
J-8215	500	3,500.00	518.88	3,518.88	49.96	6.49	J-8319
J-8216	500	3,500.00	500	3,500.00	63.41	6.49	J-8319
J-8267	500	3,500.00	500	3,500.00	63.17	6.49	J-8319
J-8268	500	3,500.00	500.32	3,500.32	48.15	6.49	J-8319
J-8269	500	3,500.00	501.27	3,501.27	45.07	6.49	J-8319
J-8270	500	3,500.00	500.72	3,500.72	36.22	6.49	J-8319

Kent County Water Authority  
 Future 20 Year Available Fire Flows  
 Above 1,000 GPM

Label	Needed Fire Flow (gpm)	Available Fire Flow (gpm)	Total Flow Needed (gpm)	Total Flow Available (gpm)	Calculated Residual Pressure (psi)	Calculated Minimum Zone Pressure (psi)	Minimum Zone Junction
J-8271	500	3,500.00	500.81	3,500.81	22.62	6.49	J-8319
J-8273	500	3,500.00	500	3,500.00	77.09	6.49	J-8319
J-8274	500	3,500.00	500	3,500.00	62.25	6.49	J-8319
J-8279	500	3,500.00	500	3,500.00	32.58	2.91	J-7102
J-8304	500	3,500.00	500	3,500.00	31.06	2.91	J-7102
J-8309	500	3,500.00	500	3,500.00	85.02	6.98	J-8307
J-8310	500	3,500.00	500	3,500.00	94.16	7	J-8307
J-8311	500	3,500.00	500	3,500.00	93.11	7.03	J-8307
J-8312	500	3,500.00	500	3,500.00	94.74	7.07	J-8307
J-8313	500	3,500.00	500	3,500.00	91.96	7.11	J-8307
J-8314	500	3,500.00	500	3,500.00	91.9	7.11	J-8307
J-8315	500	3,500.00	500	3,500.00	62.29	7.21	J-8307
J-8317	500	3,500.00	500	3,500.00	63.94	6.49	J-8319
J-89	500	3,500.00	503.59	3,503.59	68.9	6.49	J-8319
J-9	500	3,500.00	503.59	3,503.59	74.73	6.49	J-8319
J-90	500	3,500.00	503.59	3,503.59	65.05	6.49	J-8319
J-91	500	3,500.00	503.59	3,503.59	71.55	6.49	J-8319
J-92	500	3,500.00	503.59	3,503.59	64.36	6.49	J-8319
J-93	500	3,500.00	503.59	3,503.59	71.44	6.49	J-8319
J-94	500	3,500.00	503.59	3,503.59	29.53	6.49	J-8319
J-940	500	3,500.00	503.59	3,503.59	85.58	6.49	J-8319
J-941	500	3,500.00	503.59	3,503.59	64.28	6.49	J-8319
J-942	500	3,500.00	503.59	3,503.59	50.23	6.49	J-8319
J-943	500	3,500.00	503.59	3,503.59	58.6	6.49	J-8319
J-944	500	3,500.00	503.59	3,503.59	28.56	6.49	J-8319
J-947	500	3,500.00	503.59	3,503.59	69.21	6.49	J-8319
J-948	500	3,500.00	503.59	3,503.59	72.18	6.49	J-8319
J-949	500	3,500.00	503.59	3,503.59	64.68	6.49	J-8319
J-950	500	3,500.00	503.59	3,503.59	62.75	6.49	J-8319
J-951	500	3,500.00	503.59	3,503.59	64.05	6.49	J-8319
J-97	500	3,500.00	503.59	3,503.59	60.39	6.49	J-8319
J-972	500	3,500.00	503.59	3,503.59	63.71	6.49	J-8319
J-973	500	3,500.00	503.59	3,503.59	59.61	6.49	J-8319
J-974	500	3,500.00	503.59	3,503.59	76.46	6.49	J-8319
J-975	500	3,500.00	503.59	3,503.59	79.25	6.49	J-8319
J-976	500	3,500.00	503.59	3,503.59	81.31	6.49	J-8319
J-977	500	3,500.00	503.59	3,503.59	46.53	6.49	J-8319
J-98	500	3,500.00	503.59	3,503.59	51.36	6.49	J-8319
J-981	500	3,500.00	503.59	3,503.59	20.03	0.87	J-1296
J-982	500	3,500.00	500	3,500.00	24.76	0.87	J-1296
J-99	500	3,500.00	503.59	3,503.59	75.83	6.49	J-8319

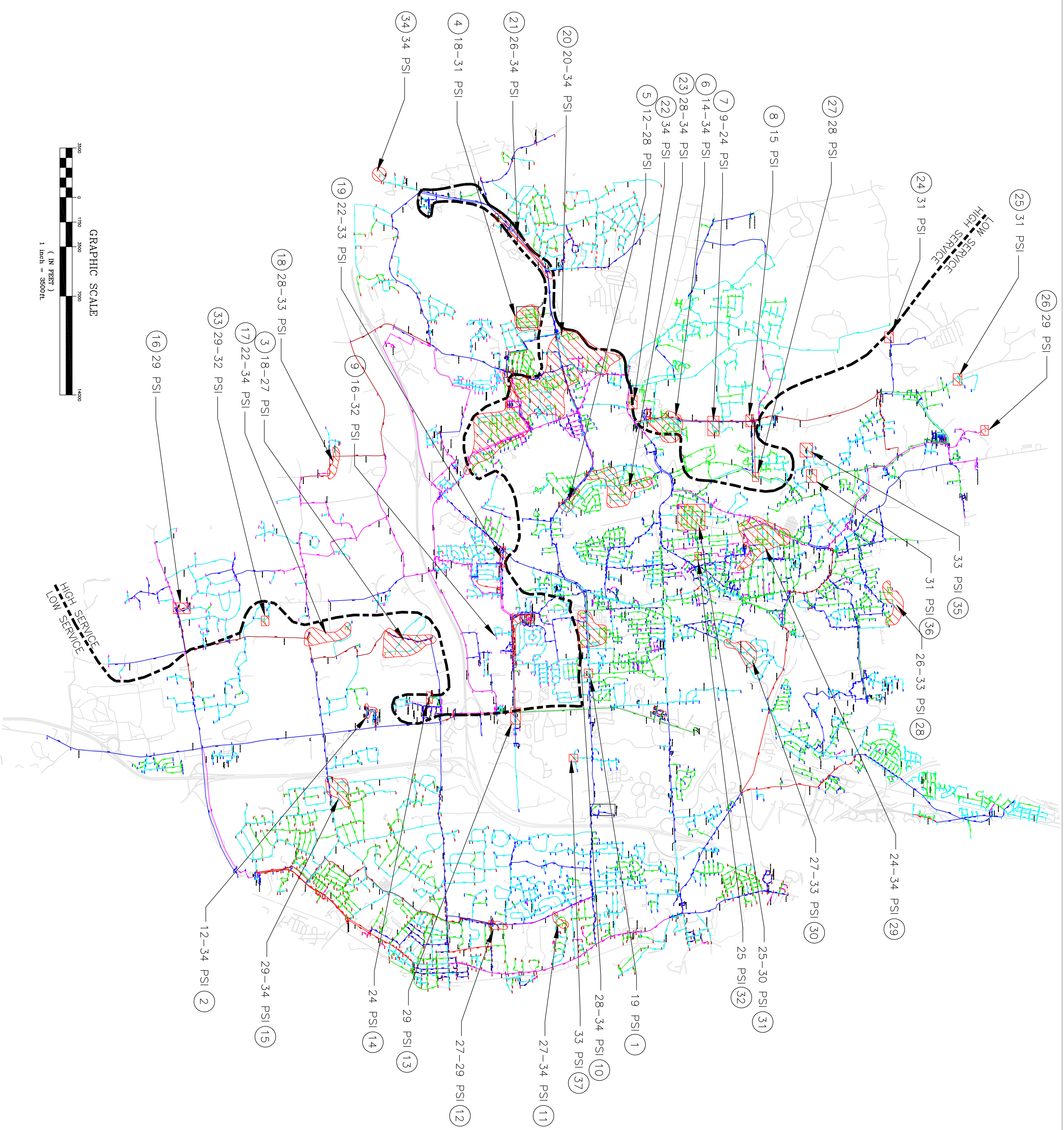
**Attachment No. 1**

**KCWA Service Area Low Pressure Locations**



# KCWA SERVICE AREA LOW PRESSURE LOCATIONS

FUTURE AVERAGE DAY DEMAND  
— STEADY STATE SIMULATION



## LEGEND

Color Coding Legend  
Link: Diameter (in)

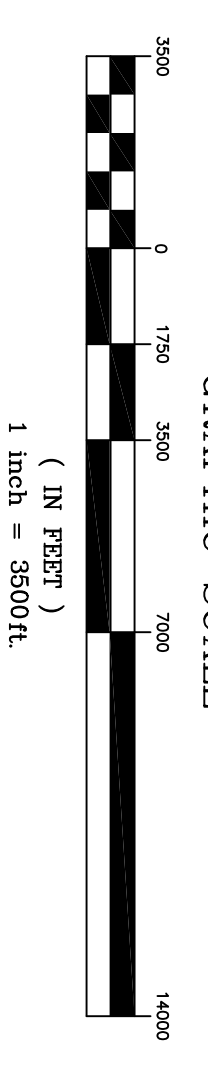
2.0
4.0
6.0
8.0
10.0
12.0
16.0
20.0
24.0
30.0

AREAS BELOW 35 PSI WITH 1  
PUMP RUNNING AT CLINTON AVE.  
PS

KCWA WATER DISTRICT SYSTEM MAP

JULY 2007 J0512  
SHEET 1 OF 1

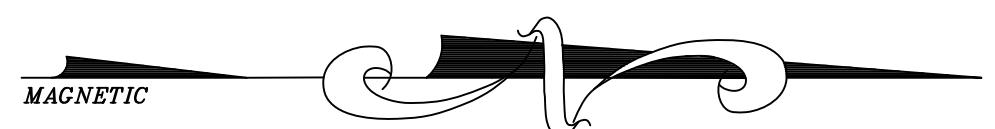
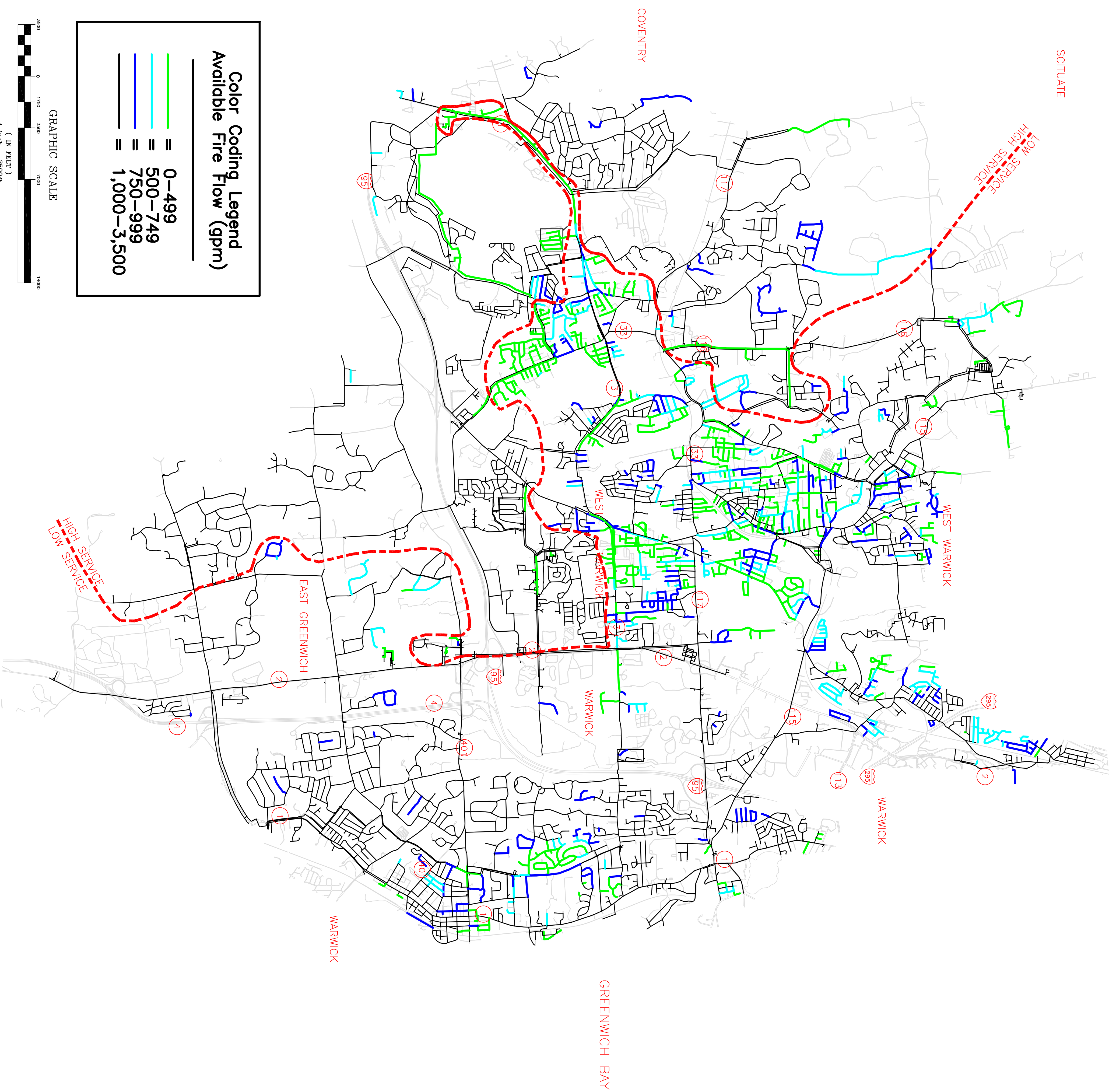
GRAPHIC SCALE



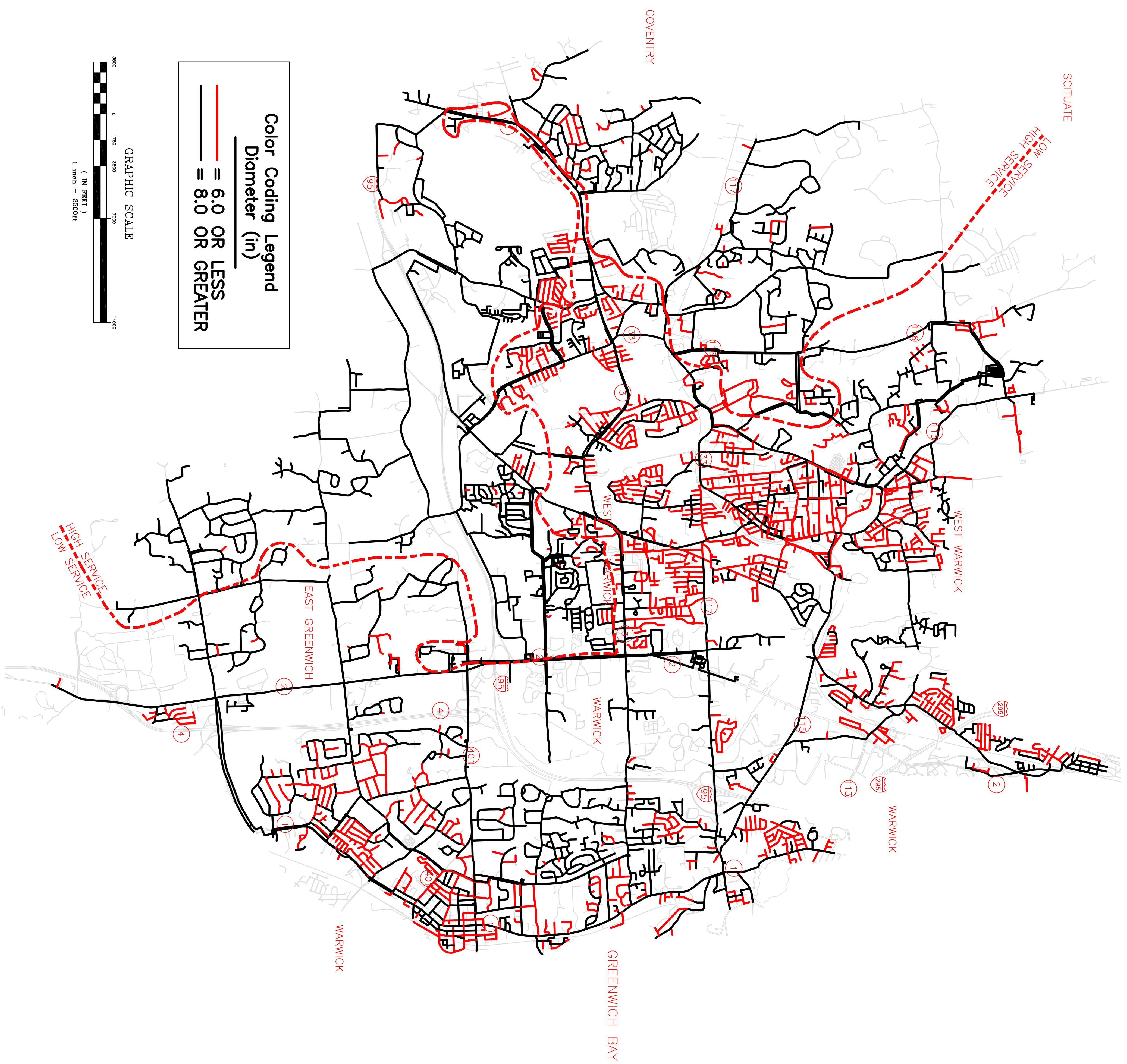
**Attachment No. 2**

**Available Fire Flow and Pipe Diameter**

# KCWA WATER DISTRIBUTION SYSTEM MAP FUTURE 20 YEAR AVAILABLE FIRE FLOW AND PIPE DIAMETER



**AVAILABLE FIRE FLOW RATES  
MAXIMUM DAY DEMAND SCENARIO**

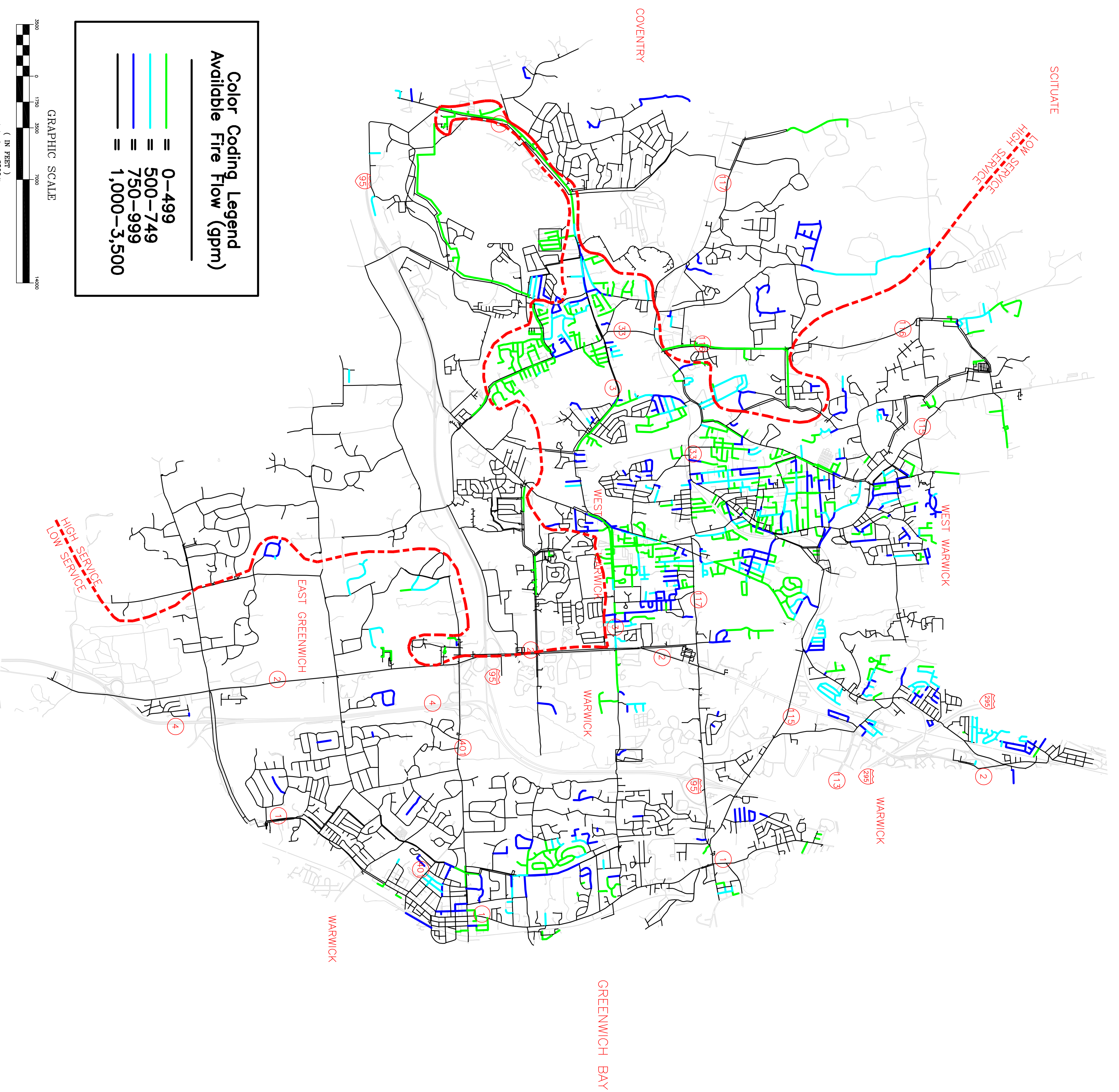


**EXISTING WATER MAINS  
6 INCH DIAMETER AND SMALLER**

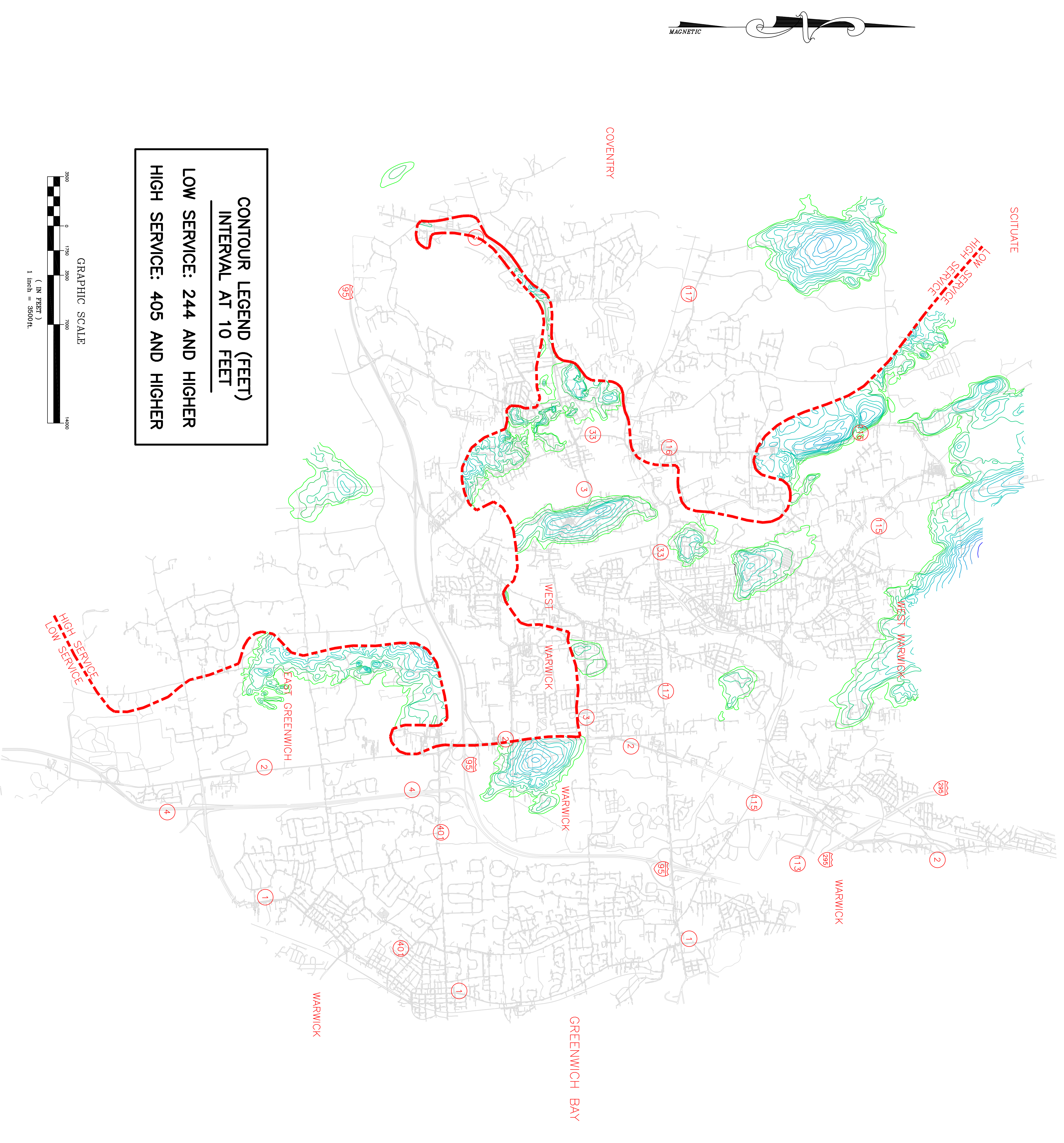
**Attachment No. 3**

**Available Fire Flow and Serviceable Elevation Contours**

KCWA WATER DISTRIBUTION SYSTEM MAP  
FUTURE 20 YEAR AVAILABLE FIRE FLOW AND SERVICEABLE ELEVATION CONTOURS



AVAILABLE FIRE FLOW RATES  
MAXIMUM DAY DEMAND SCENARIO



SERVICEABLE ELEVATION CONTOURS