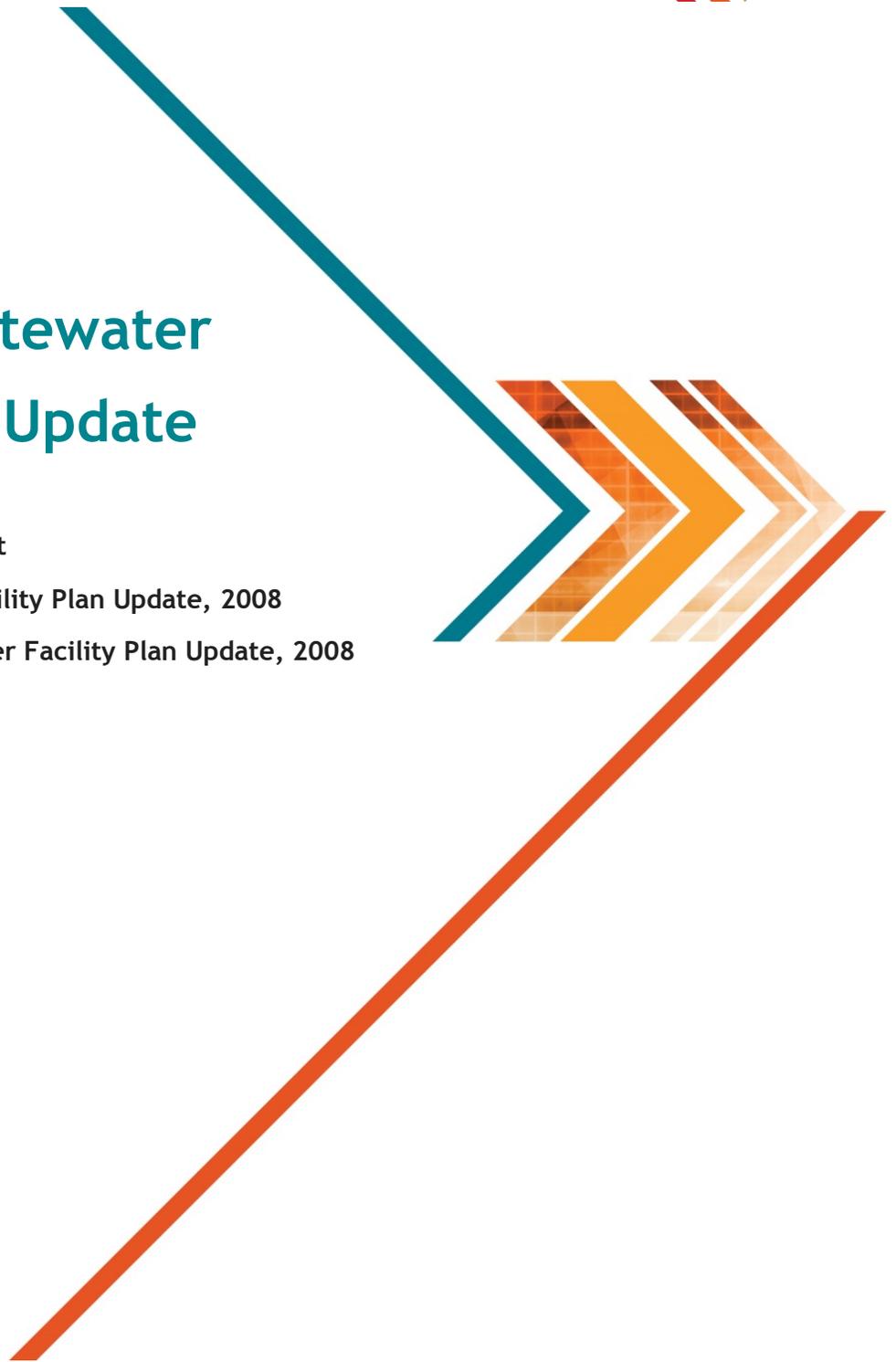


# Water & Wastewater Facility Plan Update

South Kalispell Development

Supplement to: Water Facility Plan Update, 2008  
Wastewater Facility Plan Update, 2008

*November, 2016*





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## Chapter 1 - BASIS OF PLANNING

### 1.1 Introduction

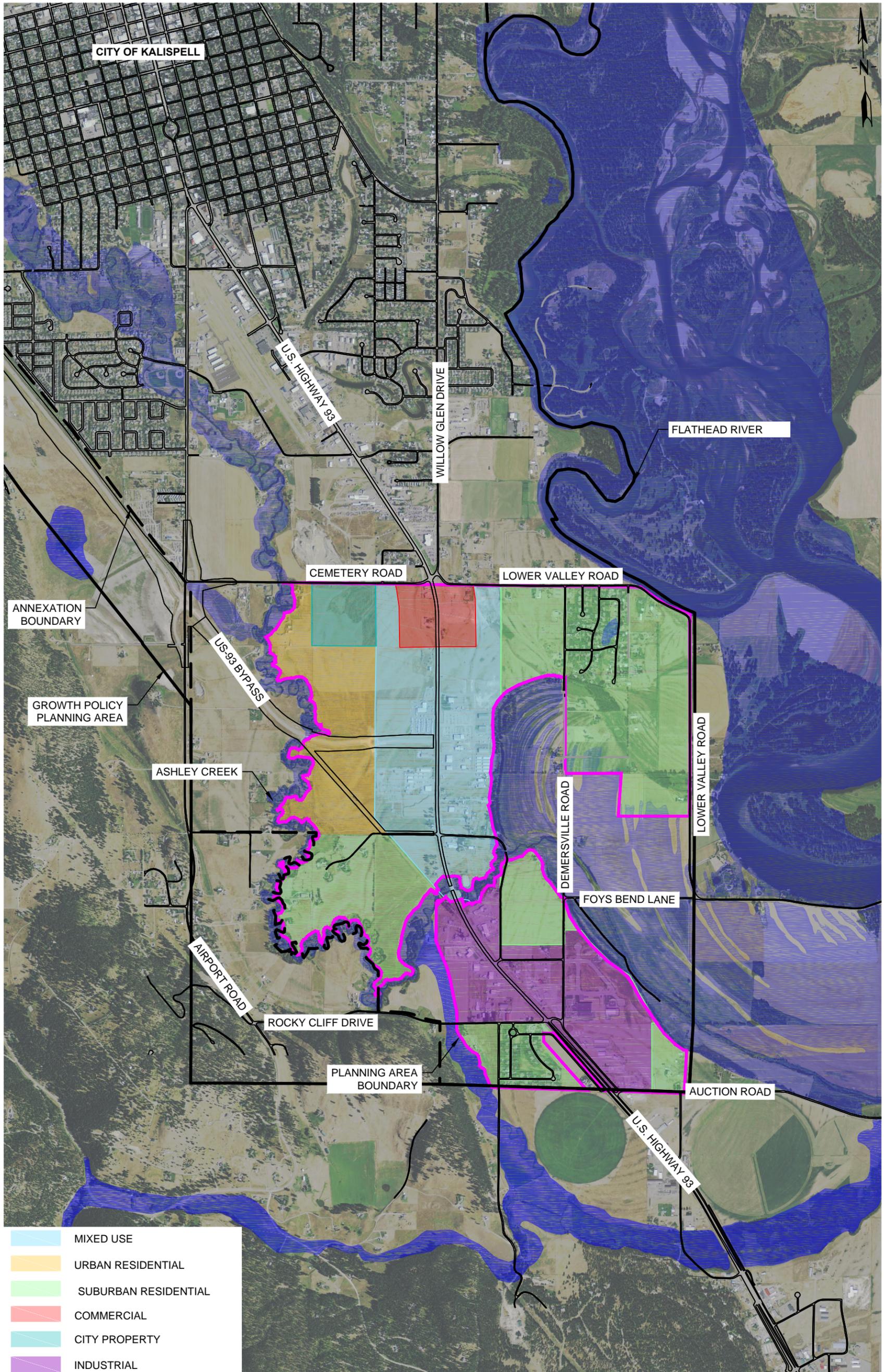
The purpose of this report is to serve as a supplement to the 2008 City of Kalispell Water and Wastewater Facility Plan Update documents prepared by HDR Engineering, Inc. It is not intended to be an all-inclusive document for the entire City but will focus on South Kalispell. The planning area developed in the 2008 documents has been re-evaluated to incorporate the 2011 Growth Policy Update. As such, this document will analyze potential growth, estimate water and sewer demands, and develop anticipated water production and distribution systems and sanitary conveyance systems for the South Kalispell planning area. The analysis will include placement and sizing recommendations for future infrastructure in the currently adopted growth annexation policy using engineering methods that follow local and state standards. This analysis does not include an investigation of the Kalispell Wastewater Treatment Plant.

### 1.2 Study Area

In 2008, the study area developed in the Facility Plan Update (Figure 1-6 Study Area) extended south along US Highway 93 (US-93) to US Highway 82 (US-82). This area was modified to coincide with the council's direction on growth.

The much smaller area analyzed in this report is bound by Cemetery Road and Lower Valley Road to the north, Rocky Cliff Drive to the south, Flathead River to the east and Ashley Creek to the west. Much of the area between US-93 and the Flathead River is located within a defined floodplain, further narrowing the practical study area to Lower Valley Road to the east. Although the Growth Policy Planning Area extends west to Airport Road, the City of Kalispell Planning Department thought it unlikely that areas west of Ashley Creek would be annexed into the City. Parcels located within the 100-year floodplain will be considered undevelopable for purposes of this report.

Figure 1.2-1 depicts the study area which is hereafter referred to as South Kalispell. The total planning area encompasses 1,800 acres, of which approximately 500 acres are located within the 100-year floodplain and 40 acres owned by the City is utilized for biosolids disposal and is not developable.



- MIXED USE
- URBAN RESIDENTIAL
- SUBURBAN RESIDENTIAL
- COMMERCIAL
- CITY PROPERTY
- INDUSTRIAL
- 100 YEAR FLOOD BOUNDARY

- GROWTH POLICY PLANNING AREA
- ANNEXATION POLICY BOUNDARY
- SOUTH KALISPELL PLANNING AREA



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**STUDY AREA**  
 CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 1.2-1





### 1.3 Population

In order to quantify the demands on the water system and loads on the sanitary sewer system, the future South Kalispell population to be served by development was estimated. The City of Kalispell Planning Department was consulted to help define population densities, anticipated growth rates and provide expertise regarding potential future development. Population projections were determined by land use density corresponding to the proposed 2030 Growth Policy and not by growth percentages. As a result, the projections yield a total population for developed South Kalispell.

#### 1.3.1 Future Population Projections

There are six land use designations in the planning area consisting of commercial, urban mixed use, city facility, urban residential, suburban residential and industrial. The total population will be driven largely by residential development as the commercial, mixed use and industrial areas will likely be low-volume users. The City of Kalispell anticipates urban residential and suburban residential areas will have population densities of approximately 10 units/acre and 4 units/acre, respectively. Table 1.3-1 summarizes the total number of Equivalent Residential Units (ERUs) anticipated for these land use areas based on the total acreage within the planning area.

*Table 1.3-1: South Kalispell Residential Population Projection*

Land Use	Population Density <sup>1</sup> (ERU/Acre)	Area In South Kalispell <sup>2</sup> (Acres)	ERU	Anticipated Population (People)
Urban Residential	10	160	1,600	4,000
Suburban Residential	4	583	2,332	5,830
<b>Total</b>	<b>5.3</b>	<b>743</b>	<b>3,932</b>	<b>9,830</b>

1) One ERU is defined as 2.5 people.

2) Calculations exclude those areas located within the 100-year floodplain.

The urban mixed use, commercial and industrial areas are anticipated to be developed similarly to existing land uses, which include large-scale dealerships/businesses with spread out infrastructure and low usage densities. Existing businesses were analyzed to determine an approximate population density for the type of land use. These estimates were determined based on past water usage, land acreage and Montana Department of Environmental Quality typical flows.

Table 1.3-2 provides a summary of the density determination for these three land uses. The raw data used to determine these values is provided in Appendix A and represents a one year period in 2014-2015.

*Table 1.3-2: South Kalispell Existing Business Water Usage Sample*

Land Use	Water Usage (gpd)	Area (acre)	Usage Density (gpd/acre)
Small Commercial	1826	1.27	1438
Large Commercial	1642	8.79	187
Small Mixed Use	1749	2.59	675
Large Mixed Use	250	7.94	31
Large Industrial	353	10.60	33
Small Industrial	63	1.61	39
<b>Total</b>	<b>5883</b>	<b>32.8</b>	<b>179</b>

According to the analysis completed by HDR in the 2008 Water Facility Plan Update, the City of Kalispell uses approximately 184 gallons of water per capita per day (Section 1.6.2.4, p.1-20). Based on the above analysis, the combined population density for these three zoning categories is 0.39 ERU per acre assuming 460 gpd/ERU (2.5 people per ERU @ 184 gpd per person). Commercial developments may see a higher population given these businesses are more likely to be service oriented companies (gas stations, hotels,



etc.). However, the large-scale, extended dealerships drastically decrease the population density. Table 1.3-3 provides a summary of the business land-use areas and the expected service population.

*Table 1.3-3: South Kalispell Business Population Projection*

Land Use (# of Parcels)	Population Density <sup>1</sup> (ERU/Acre)	Area In South Kalispell <sup>2</sup> (Acres)	ERU	Anticipated Population (People)
Commercial (19)	0.39	46	18	45
Mixed Use (27)	0.39	281	110	275
Industrial (51)	0.39	211	82	205
<b>Total (97)</b>	<b>0.39</b>	<b>538</b>	<b>210</b>	<b>525</b>

1) One ERU is defined as 2.5 people.

2) Calculations exclude those areas located within the 100-year floodplain.

Table 1.3-4 provides a summary of the population projection for South Kalispell.

*Table 1.3-4: Projected South Kalispell Populations*

Land Use	Population Density <sup>1</sup> (ERU/Acre)	Area In South Kalispell <sup>2</sup> (Acres)	ERU	Anticipated Population (People)
Urban Residential	10	160	1,600	4,000
Suburban Residential	4	583	2,332	5,830
Commercial	0.39	46	18	45
Mixed Use	0.39	281	110	275
Industrial	0.39	211	82	205
<b>Total</b>	<b>0.39</b>	<b>1,281</b>	<b>4,142</b>	<b>10,355</b>

1) One ERU is defined as 2.5 people.

2) Calculations exclude those areas located within the 100-year floodplain.

## 1.4 Projected Water System Demand

### 1.4.1 Introduction

This section will use the population projections developed in the previous section to estimate the future water demand for the planning area. Although a significant portion of the South Kalispell area has already been developed, very few properties are served by the City's water system.

### 1.4.2 Future Demand Forecast

The future demand within the study area is dependent on the population growth and the types of establishments that develop in the commercial, industrial and mixed-use areas. The future demand forecast will be used to develop the design criteria for new infrastructure to serve South Kalispell. Based on the population projections (10,355 people), the average daily water demand for the South Kalispell area is 1.90 MGD, which includes domestic and irrigated use. Applying a peaking factor of 2.67 established in the 2008 Facility Plan Update, the peak hourly demand is anticipated to be 3,540 gpm. This represents the demand once the area is fully developed; variations will occur as residential areas are populated, business are constructed and the current population connects to the system.

Fire flow requirements for development in Kalispell are determined in accordance with the International Fire Code, Montana Department of Environmental Quality, and the Kalispell Fire Department. A development's fire flow requirement is determined on factors relative to each individual development such as, building type, building size, residential/commercial/industrial use, etc. For the purpose of this facility planning document fire flow scenarios are analyzed for residential areas at 1,500 gallons per minute (gpm) and increased to 4,000 gpm for the commercial, industrial, and mixed-use areas. According to the Fire Chief, there are no existing areas within Kalispell that require fire flows in excess of 4,000 gpm. Therefore, since there are no atypical developments currently planned for South Kalispell, the ceiling limit estimates are assumed to be sufficient.



## 1.5 Projected Sewer System Flow

### 1.5.1 Introduction

Similar to the previous projected water system demand, this section will use the population projections, by land-use densities corresponding to the 2030 Growth Policy, to estimate the sewer flow for South Kalispell. There is an existing sewer main extending from the Four Corners Lift Station south to the US-93/Rocky Cliff Drive Intersection parallel to US-93 on the east side.

### 1.5.2 Future Flow Forecast

Unlike the water demand, the future sewer flow forecast excludes any flow generated via irrigation or fire flow. The average daily flow per equivalent residential unit (ERU) for Kalispell is 265 gallons per day per the March 2008 Wastewater Facility Plan with a peak hour flow of 3.05 gallons per ERU. Having converted the commercial, industrial and mixed use population converted into residential populations (see Table 1.3-3), the anticipated number of ERUs to be sewered in the South Kalispell study area is 4,142 (see Table 1.3-4). Therefore, the average daily flow is 1.1 MGD. Applying the 3.05 peaking factor per ERU to the average daily flow, the peak hourly flow is estimated to be approximately 3.4 MGD, or 2,330 gpm.

*Table 1.5-1: Summary of Sanitary Sewer Flow*

<b>STUDY AREA POPULATION</b>	<b>STUDY AREA ERU</b>	<b>AVERAGE DAILY FLOW (MGD)</b>	<b>PEAK HOURLY FLOW (GPM)</b>
<b>10,355</b>	4,142	3.4	2,330



## Chapter 2 - WATER DISTRIBUTION

### 2.1 Introduction

This Chapter utilizes the information presented in Chapter 1 to analyze the future water demand and appropriately size distribution mains to serve the domestic and fire flow needs of the South Kalispell area. The purpose of the water modeling efforts was to determine the water main sizes that should be installed in the South Kalispell Study Area.

The modeling was restricted to the existing distribution system, plus the proposed mains identified in Figure 2.2-1. The proposed additions would provide additional looping south of Cemetery Road, which would facilitate future growth in the area and provide for increased fire flow volumes.

### 2.2 Future Water Distribution Analysis

#### 2.2.1 *Distribution System Modeling Assumptions*

The computer modeling of the South Kalispell distribution system used or incorporated the following assumptions:

- The configuration of the existing distribution system, current modeling demands, and several other operational parameters associated with the existing system function as depicted in the existing water system model provided by the City.
- The configuration of the proposed water mains are as depicted in Figure 2.2-1. All elevations associated with the new mains were determined from the existing 2006 City of Kalispell Montana State Plane LiDAR survey data.
- Fire flow goals were 4,000 gpm for commercial, industrial and mixed use areas and 1,500 gpm for residential areas.
- The analysis focused on the sizing of the proposed water mains only. No detailed consideration was given to additional booster pumps, pressure zones, storage tanks, main replacements, or other facilities added to facilitate fire flows within the evaluation area.
- The initial water level within the storage reservoirs was 1-foot above the minimum operating elevation (the bottom of the tank) on Scenario 1. This means the system wells will be “on.”
- For Scenario 2, the operating elevation was 0.50-foot above the set point where the pumps cycle on, which means the system wells will be “off.”
- The maximum diameter mains considered to accommodate the desired fire-flows were 24-inch diameter. Additional facilities will need to be considered if the desired flows cannot be achieved with smaller sized mains.
- There were no new/additional demands (e.g. domestic usage) added within the evaluation area, aside from the fire-flow analysis.
- The minimum allowable pressure during the fire flow analysis was 20-psi.
- A Hazen-Williams roughness coefficient of 150 was used for all new PVC.

#### 2.2.2 *Modeling Software*

All modeling was completed using the existing water system model developed for the March 2008 Facility Plan Update and the 2012 model update. This model was provided by the City of Kalispell. The modeling software package utilized was the WaterCAD V8i software package distributed by Bentley. Modeling was completed in the Steady State mode with a fire flow simulation in the area of the proposed water mains.



### **2.2.3 Modeling Results**

The modeling was completed utilizing the following process:

1. Complete a fire-flow analysis with variable main sizes and material to confirm the desired fire flows can be achieved.
2. Increase main sizes incrementally and re-run the fire-flow analysis until the desired fire flows are achieved, up to 24-inch mains.

The following scenarios were considered for the modeling:

- Scenario 1 - Tanks near empty (3058') with the source water pumps turned on to fill the reservoirs.
- Scenario 2 - Tanks near full (3074') with the source water pumps turned off.

### **2.2.4 Water Main Extension Evaluation**

The initial fire flow analysis included a combination of new 8-inch, 10-inch, 12-inch, and 16-inch PVC mains in the evaluation area. This sizing is based on the anticipated development in the area and engineering judgement. The corresponding sizes and desired fire flow rates are as presented in Figure 2.2-1.

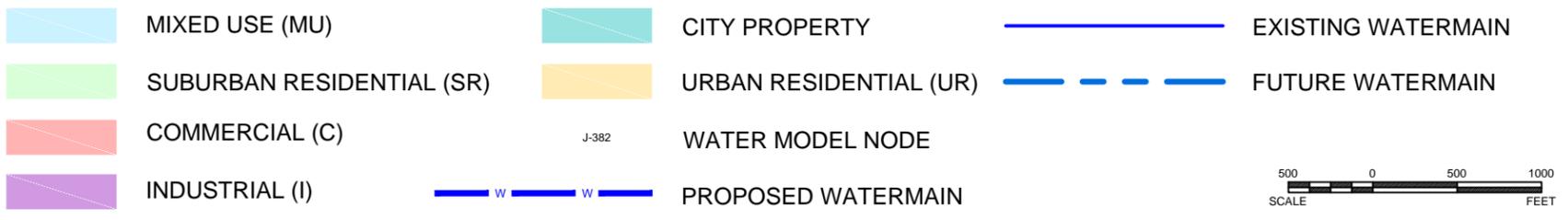
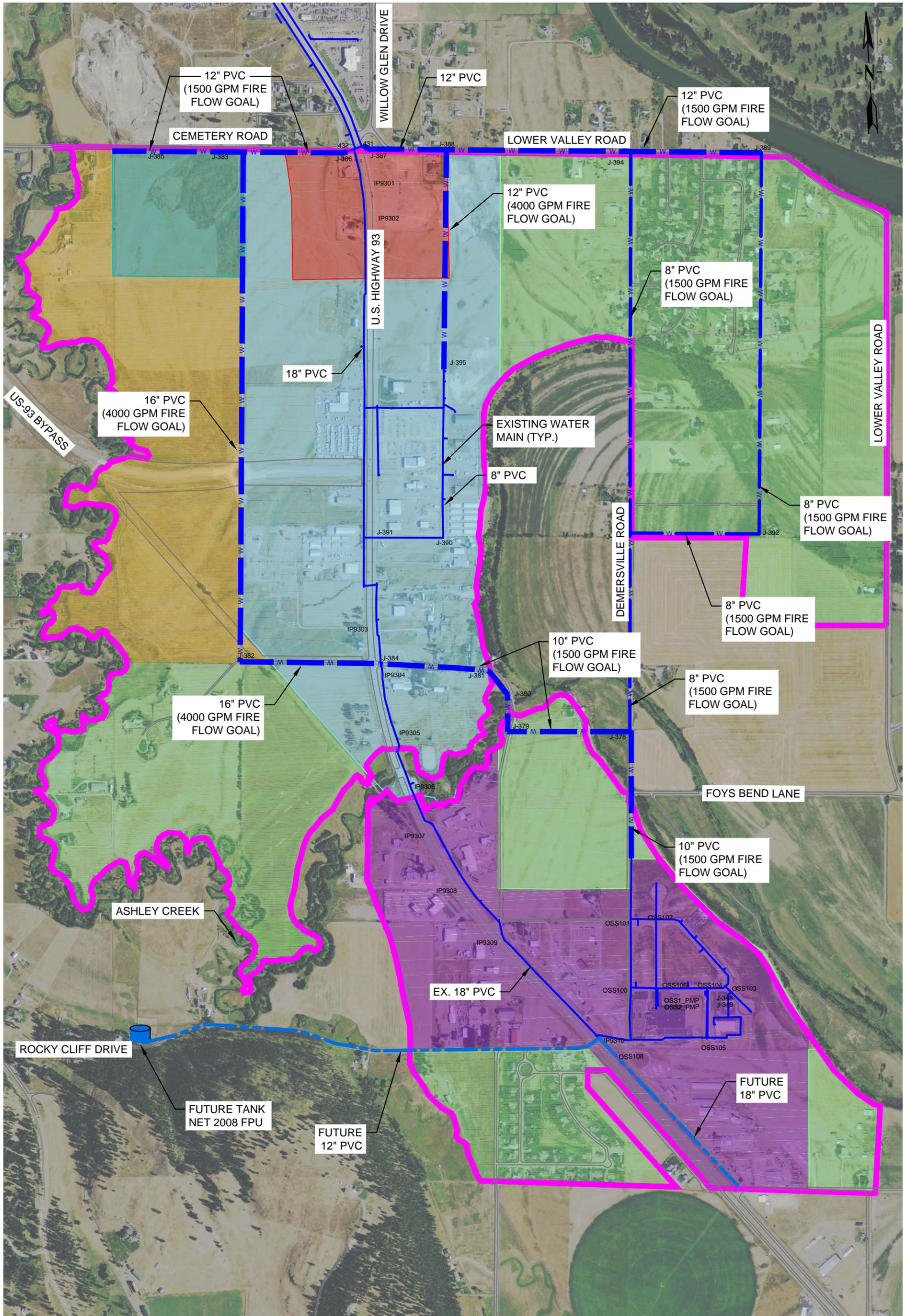
Main extensions were sited in strategic locations within the service area to meet City standards, minimize dead-ends and facilitate looping while serving existing subdivisions and future development areas. As development occurs, water mains should be extended and looped as necessary from those mains depicted in this report to meet the demands of the new developments.

The 2008 Water Facility Plan Update included provisions for the addition of a 1.5 MG storage tank located on Rocky Cliff Drive to serve the South Kalispell area. Modeling took into account only present day conditions and therefore, did not account for this tank being incorporated into the water system.

#### **2.2.4.1 Scenario 1**

Based on the results of the initial analysis and corresponding main sizing, at least 1,500-gpm fire flows can be achieved for those areas with a 1,500-gpm goal; however, a fire-flow of 4,000-gpm cannot be achieved for those areas with a 4,000-gpm goal. Therefore, the main sizes were incrementally increased to determine if the 4,000 gpm goal could be achieved.

As shown in Table 2.2-1, the 4,000-gpm fire flow goal cannot be achieved through increasing the size of the proposed mains alone. Modeling shows a minimal increase in available fire flows when comparing the initial sizing to the "all 24-inch mains" results.



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**WATER MODELING MAIN SIZING**  
 CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 2.2-1





Table 2.2-1: Scenario 1 Modeling Results

JUNCTION ID	AVAILABLE FIRE FLOW W/INITIAL SIZING (GPM)	AVAILABLE FIRE FLOW W/ALL 24-INCH MAINS (GPM)	FIRE FLOW GOAL (GPM)
J-378	>3,000	>3,000	1,500
J-379	>3,000	>3,000	1,500
J-380	>3,000	>3,000	1,500
J-381	3,284	3,301	4,000
J-382	3,248	3,299	4,000
J-383	3,156	3,293	4,000
J-384	3,276	3,301	4,000
J-385	2,881	>3,000	1,500
J-386	>3,000	>3,000	1,500
J-387	>3,000	>3,000	1,500
J-388	3,297	3,302	4,000
J-389	2,528	>3,000	1,500
J-390	3,007	3,126	4,000
J-391	3,285	3,301	4,000
J-392	2,388	>3,000	1,500
J-393	2,975	>3,000	1,500
J-394	>3,000	>3,000	1,500
J-395	3,240	3,302	4,000

#### 2.2.4.2 Scenario 2

Similar to Scenario 1, the fire-flow can be achieved based on the initial sizing for all areas with a 1,500-gpm goal. However, the desired fire-flow cannot be achieved for those areas with a 4,000-gpm goal. Therefore, the main sizes were incrementally increased to determine if the 4,000 gpm goal could be achieved. Table 2.2-2 summarizes the Scenario 2 modeling results.



Table 2.2-2: Scenario 2 Modeling Results

JUNCTION ID	AVAILABLE FIRE FLOW (GPM) W/ INITIAL SIZING	AVAILABLE FIRE FLOW (GPM) W/ALL 24-INCH MAINS	FIRE FLOW GOAL (GPM)
J-378	1,838	1,853	1,500
J-379	1,837	1,853	1,500
J-380	1,837	1,853	1,500
J-381	1,836	1,853	4,000
J-382	1,829	1,852	4,000
J-383	1,804	1,851	4,000
J-384	1,835	1,853	4,000
J-385	1,718	1,848	1,500
J-386	1,848	1,853	1,500
J-387	1,847	1,853	1,500
J-388	1,847	1,853	4,000
J-389	1,829	1,853	1,500
J-390	1,842	1,853	4,000
J-391	1,839	1,853	4,000
J-392	1,787	1,853	1,500
J-393	1,843	1,853	1,500
J-394	1,846	1,853	1,500
J-395	1,846	1,853	4,000

Based on the modeling results, the desired fire flows cannot be achieved without consideration to other facility improvements. The most likely options to facilitate higher available flow rates at the south end of the pressure zone are as follows:

1. New/Larger Mains - Available fire flows could be increased through upsizing of existing mains or installation of parallel mains from the existing storage tanks to the area of interest. This solution would require a significant amount of new transmission main to extend from the storage reservoirs to the area of interest and is fiscally impractical.
2. New Pump Station - A new pump station could be constructed to serve the south end of the pressure zone. The pump station would require the installation of check valves (or other flow direction controls) upstream and would likely only be utilized during emergency conditions. If additional looping is possible from the area of interest back towards Highway 2 along the US-93 Bypass, additional flow direction controls may be necessary for proper function of an emergency pump station. There is also a possibility of creating a new pressure zone altogether. This option would require significant analysis to determine its feasibility. Such analysis is outside the scope of this report.
3. New Storage Tank - The construction of a new storage tank at the south end of the pressure zone, which is in support of the 2008 Facility Plan Update, is expected to increase the available fire flow and provide more redundancy within the distribution system.

Land availability, long-term growth plans, additional modeling, and capital costs should be considered before moving forward with any solutions to achieve the desired fire flows within the area of interest. It is likely several long-term concerns could be addressed through some front-end planning and analysis.

#### 2.2.4.3 Alternative Sizing Considerations

Because the area of interest is relatively close to the source water wells, but relatively far from the storage tanks, Scenario 2 is the “worst-case” scenario and will govern this evaluation. While the fire flow goal of 4,000 gpm is not attainable with the current system, there may be a tank or other



improvement to the system to allow for the 4,000 gpm fire flow in the future. The mains should be sized to allow for this fire flow.

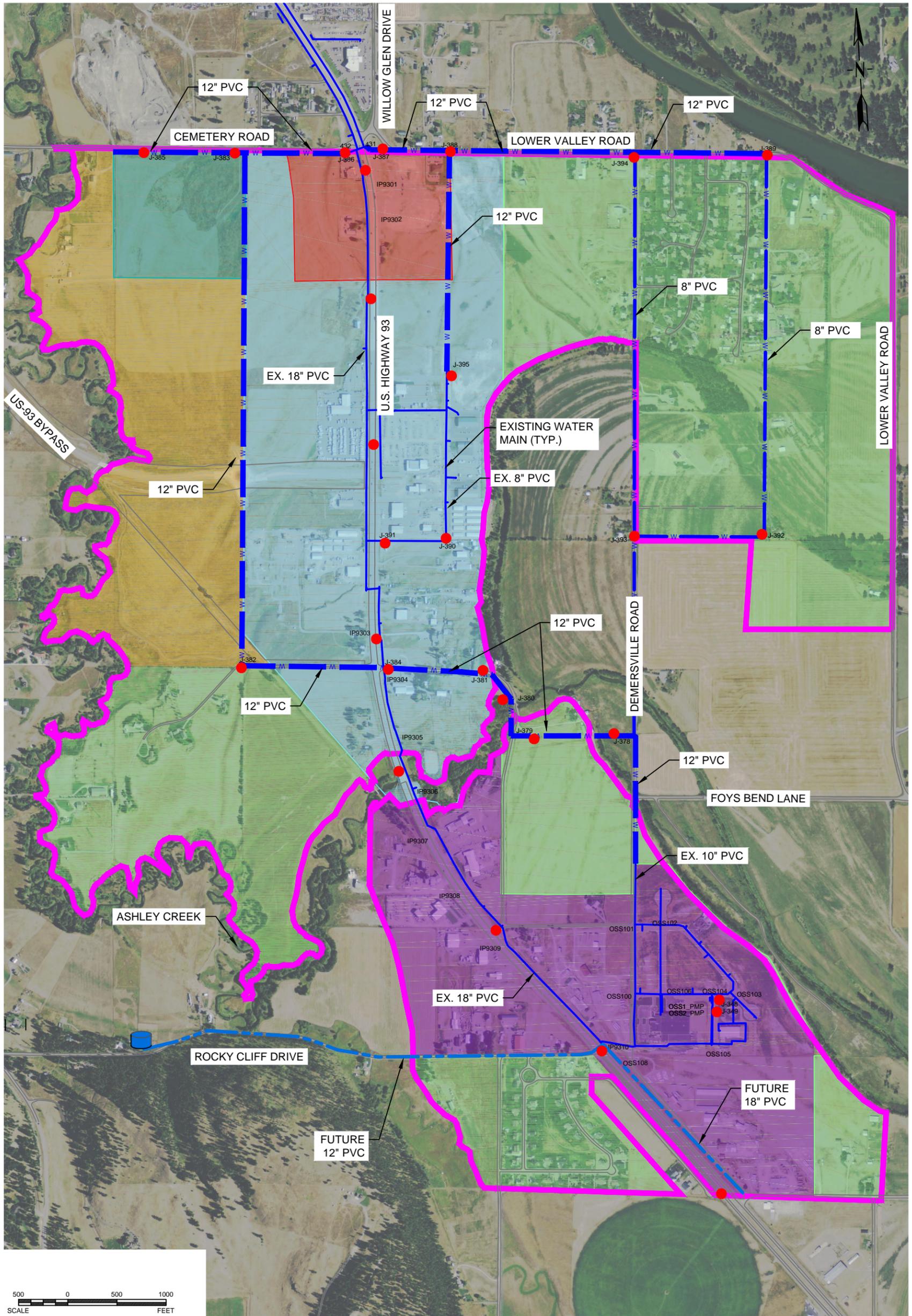
A maximum velocity of no greater than 10-fps under fire-flow conditions is recommended in cases of proposed mains.<sup>1</sup> For a 4,000-gpm fire-flow (without a significant domestic demand), a velocity of approximately 5.7-fps is achieved when flowing through a 12-inch looped main assuming exactly half of the flow comes from each branch of the loop. Fire flows rarely split exactly in half, so one branch typically sees increased velocity. Using 12-inch mains helps ensure velocities do not exceed 10-fps in the branch carrying the higher flow. As a result, a 12-inch main is the minimum diameter recommended for any areas with a desired fire-flow of 4,000-gpm.

The cost-difference for the installation of a 12-inch main is relatively minor to that of a 10-inch or 8-inch main. Mains smaller than 8-inches are not recommended for new developments with minimum 1,500-gpm fire-flows. Additionally, if the proposed mains have the potential to be used as the “skeleton” or “core” of a future development area, a minimum main sizing of 12-inch is recommended. However, the development at the eastern extents of the model (south of Lower Valley Road between J-378 and J-394) can be served by 8-inch mains as long as the fire flow goal remains 1,500 gpm and the mains are not anticipated to be serving future developments with large demands/fire-flows.

Because of the above considerations, each of the proposed mains identified in Figure 2.2-2 should be at least 12-inches in diameter, except where 8-inch is noted to be acceptable. The model was run with 8-inch and 12-inch mains as depicted in the figure. The available fire flow resulting from the proposed mains are as provided in the table below.

---

<sup>1</sup> Comprehensive Water Distribution Systems Analysis Handbook, Second Edition, Boulos/Lansey/Karney, page 7-34



- MIXED USE (MU)
- SUBURBAN RESIDENTIAL (SR)
- COMMERCIAL (C)
- INDUSTRIAL (I)

- CITY PROPERTY
- URBAN RESIDENTIAL (UR)
- WATER MODEL NODE
- PROPOSED WATERMAIN

- EXISTING WATERMAIN
- FUTURE WATERMAIN

**FIRE FLOWS - AT NODE**

- 0 - 1,499
- 1,500 - 3,000
- 3,001 - 4,000
- 4,001 - 5,000
- 5,001 - 10,000

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**PROPOSED WATER MAINS**  
 SOUTH KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 2.2-2





Table 2.2-3: Scenario 2 12-Inch Main Sizing Recommendation

JUNCTION ID	AVAILABLE FIRE FLOW (GPM) W/12-INCH MAIN	FIRE FLOW GOAL (GPM)	INCREASE IN FIRE FLOW (GPM) W/24-INCH MAINS	PERCENT INCREASE IN FIRE FLOW W/24-INCH MAINS
J-378	1,846	1,500	7	0.38%
J-379	1,845	1,500	8	0.43%
J-380	1,845	1,500	8	0.43%
J-381	1,845	4,000	8	0.43%
J-382	1,833	4,000	19	1.04%
J-383	1,783	4,000	68	3.81%
J-384	1,845	4,000	8	0.43%
J-385	1,700	1,500	N/A, Fire Flow Goal Achieved	
J-386	1,845	1,500	N/A, Fire Flow Goal Achieved	
J-387	1,851	1,500	N/A, Fire Flow Goal Achieved	
J-388	1,851	4,000	2	0.11%
J-389	1,828	1,500	N/A, Fire Flow Goal Achieved	
J-390	1,848	4,000	5	0.27%
J-391	1,846	4,000	7	0.38%
J-392	1,788	1,500	N/A, Fire Flow Goal Achieved	
J-393	1,848	1,500	N/A, Fire Flow Goal Achieved	
J-394	1,850	1,500	N/A, Fire Flow Goal Achieved	
J-395	1,850	4,000	3	0.16%

In order to determine whether or not larger mains would yield increased fire flow, the size of the proposed mains was increased to 24-inch in the model. The increase in fire flow was determined to be negligible. The largest increase was at junction J-383 and was less than 4%. The remainder of the system saw an increase of 1% or less. Increasing the size of the mains beyond 12-inch would not result in an adequate return on investment. Therefore, 8-inch and 12-inch mains are appropriate for all of the proposed mains.

### 2.2.5 Conclusions

The analysis indicates the planning area can expect minimum available fire flows between 1,700-gpm and 1,900-gpm regardless of the sizing combinations that were modeled. The residential land-use segments requiring 1,500-gpm can be serviced with the proposed mains. However, areas analyzed for 4,000-gpm fire flows will require an alternative solution to meet the demands of the development if fire flows greater than 1,900 gpm are required. The fire flow values provided in this facility plan update should be considered for planning only and individual developments shall be analyzed independently in accordance with the International Fire Code.

Based on the additional analysis completed, there is a negligible difference in available flows between 12-inch and 24-inch mains. Due to the additional costs and minimal benefit associated with 24-inch diameter mains, 8-inch and 12-inch PVC mains are recommended for this area. However, based on typical velocity limitations, the 12-inch mains are expected to accommodate future expansion while keeping fiscal responsibility at the forefront. For a commercial, industrial, and mixed-use development requiring fire flows greater than what the model estimated, additional fire suppression management interior to the development may be utilized.

Layout of the main extensions shown in Figure 2.2-2 was developed to loop existing and proposed mains to provide more reliable flows and pressures. This effectively minimized the number of dead-end mains in keeping with the City’s standards. Dead-end mains depicted should be looped as development occurs.



### 2.2.5.1 Future Recommendation

Based on modeling results, if there is a desire for the City to provide fire flows greater than 1,900 gpm for the entire South Kalispell Study Area, systemic changes will be needed such as upsizing existing mains, adding parallel mains, adding a new booster station, or adding a new storage tank. Such large changes to this pressure zone must be analyzed in further detail before they could be implemented. A Kalispell South Water System Master Plan would be necessary to evaluate which if any of these options is viable and to determine which is in the best interests of the City.



## Chapter 3 - WASTEWATER COLLECTION

### 3.1 Introduction

This Chapter will identify strategic locations for constructing the main components of a new sanitary collection system. The proposed sewer system flow established in Chapter 1 will serve as the basis for sizing the proposed sewer mains.

*Table 3.1-1: Summary of Sanitary Sewer Flow*

STUDY AREA POPULATION	STUDY AREA ERU	AVERAGE DAILY FLOW (MGD)	PEAK HOURLY FLOW (GPM)
10,355	4,142	3.4	2,330

### 3.2 Sewer Collection System Summary

The topography of South Kalispell is the key factor in locating proposed collection system infrastructure. The area was studied to identify and maximize the locations that could be served via gravity sewer and those that would require a lift station. Highway US-93 splits the project area into east and west regions and each region was delineated into smaller sewer service areas. These areas are depicted in Figure 3.2-1 and Figure 3.2-2 and include the contributing land use, area and the general gradient.

Utilizing the delineations of the sewer service areas, locations of main sewer collectors were identified. Each service area will connect to the appropriate gravity collectors via gravity sewer or local lift station and force main. For example, the topography of S-W-10 generally drains south and west toward Ashley Creek and the US-93 Bypass. It is anticipated that this area can be served by gravity mains ultimately being collected in a main adjacent to the US-93 Bypass. Service area S-W-5 also flows south and west toward Ashley Creek. However, this area will require a local lift station to convey wastewater to a northerly gravity main ultimately discharging into the existing City lift station at Ashley Creek and US-93. Table 3.2-1 summarizes the population to be served by each service area.



Table 3.2-1: Summary of Service Area Population

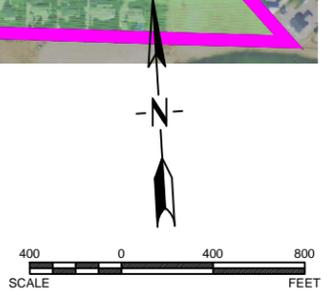
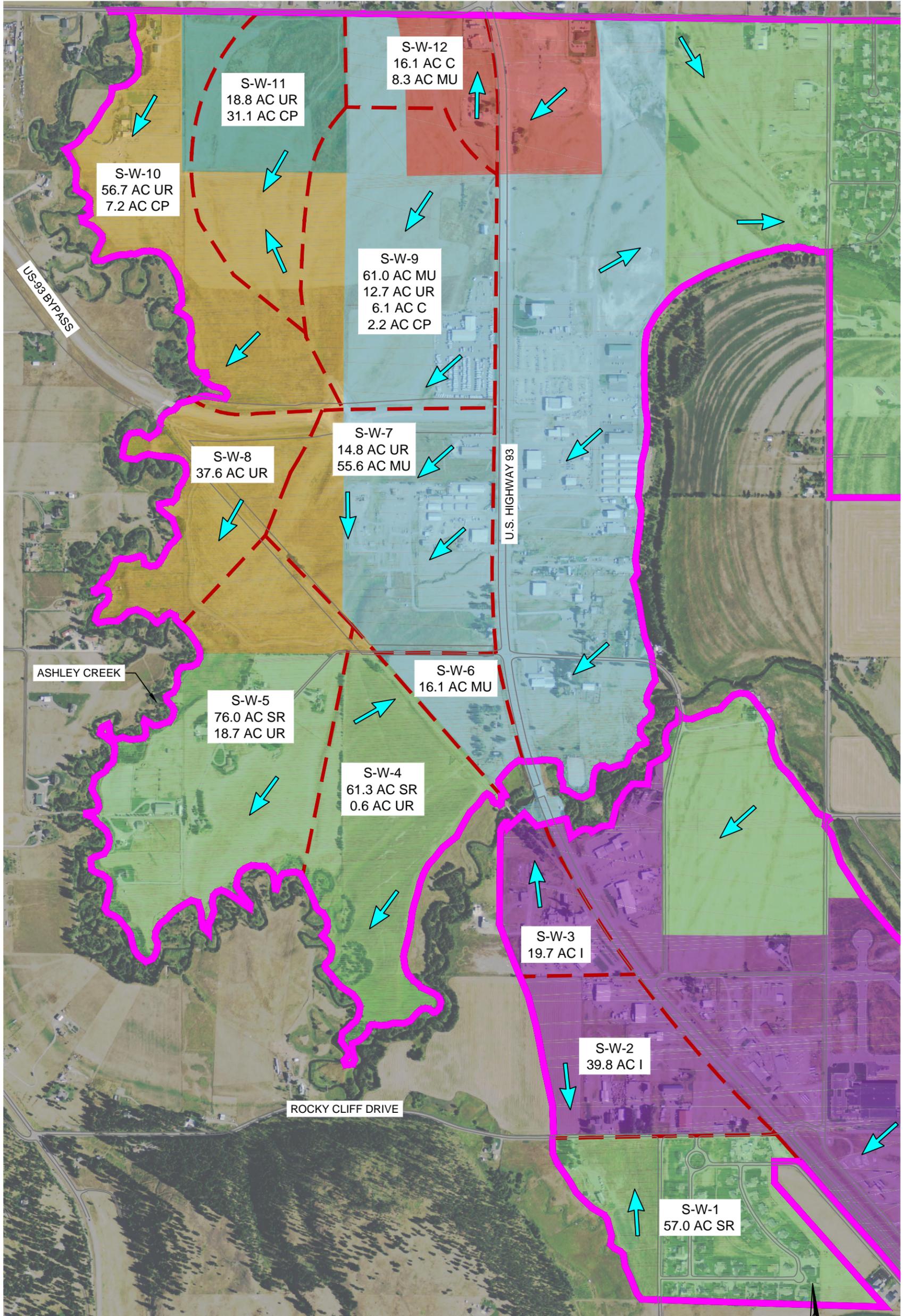
SERVICE AREA	SR (ACRES)	UR (ACRES)	C (ACRES)	I (ACRES)	MU (ACRES)	CP <sup>2</sup> (ACRES)	POPULATION <sup>1</sup>	ERU <sup>4</sup>
S-W-1	57.0						570	228
S-W-2				39.8			39	16
S-W-3				19.7			19	8
S-W-4	61.3	0.6					628	251
S-W-5	76.0	18.7					1228	491
S-W-6					16.1		16	6
S-W-7		14.8			55.6		424	170
S-W-8		37.6					940	376
S-W-9		12.7	6.1		61.0	2.2	383	153
S-W-10		56.7				7.2	1418	567
S-W-11		18.8				31.1	470	188
S-W-12			16.1		8.3		24	10
S-E-1	19.0			52.7			242	97
S-E-2	52.0			98.8			617	246
S-E-3			2.3		107.9		108	43
S-E-4			17.3				17	7
S-E-5	60.4		3.8		32.1		639	256
S-E-6	72.2						722	289
S-E-7	7.8						78	31
S-E-8	116.6						1166	466
S-E-9	60.7						607	243
<b>Total</b>	<b>583.0</b>	<b>159.9</b>	<b>45.6</b>	<b>211.0</b>	<b>281.0</b>	<b>40.5</b>	<b>10,355</b>	<b>4142</b>

1. Population = [4SR+10UR+0.39C+0.39I+0.39MU] x 2.5

2. City Property is considered undevelopable and therefore, does not contribute to any future population/flows.

3. SR = Suburban Residential, UR = Urban Residential, C = Commercial, I = Industrial, MU = Mixed Use, CP = City Property

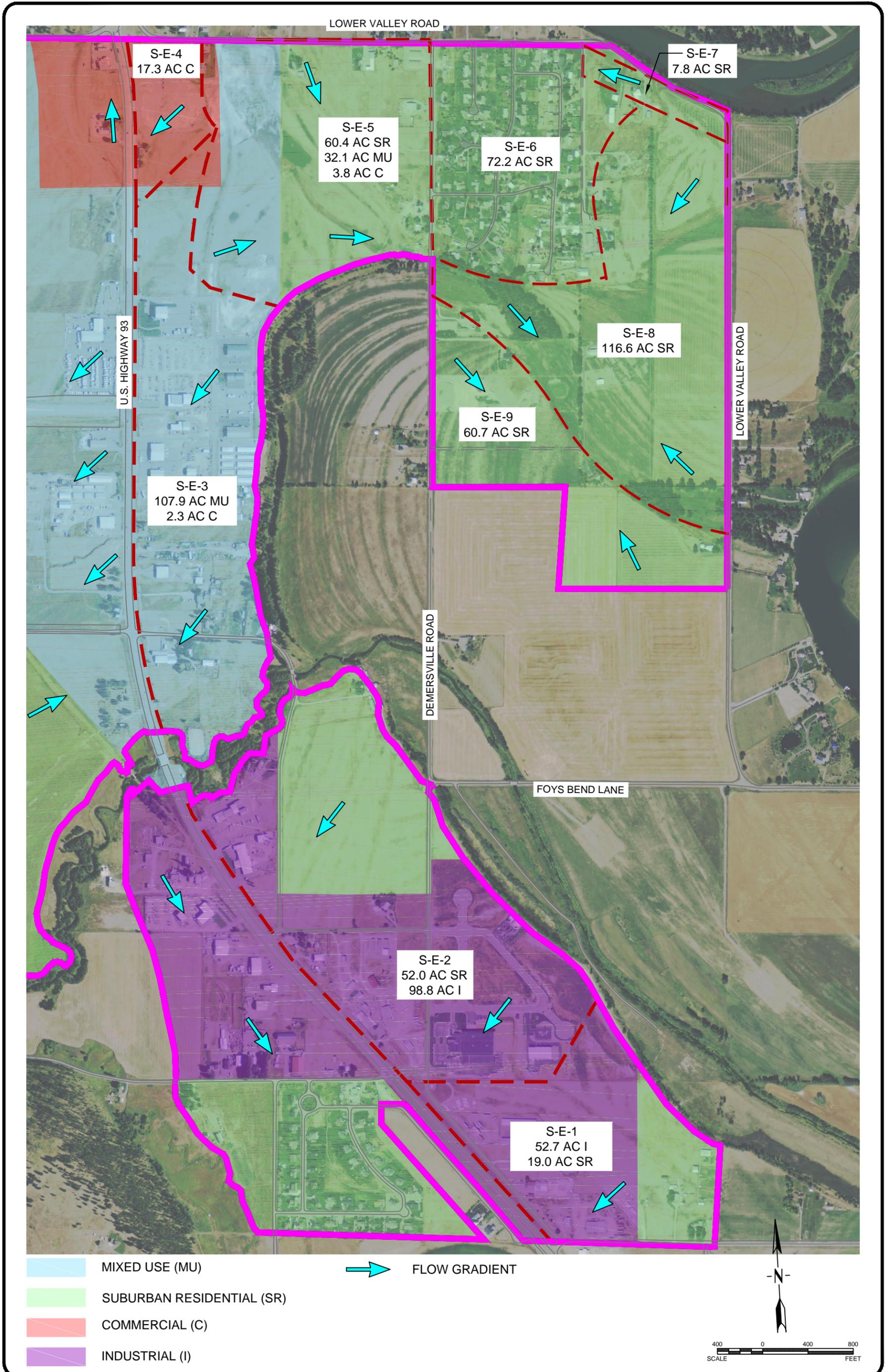
4. One ERU is defined as 2.5 people.



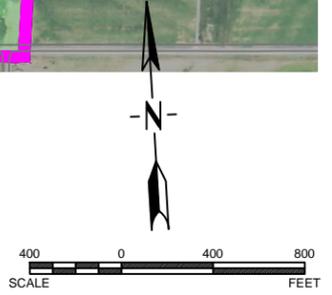
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**PROPOSED WEST SEWER SERVICE AREAS**  
 CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 3.2-1





- MIXED USE (MU)
  - SUBURBAN RESIDENTIAL (SR)
  - COMMERCIAL (C)
  - INDUSTRIAL (I)
- FLOW GRADIENT



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**PROPOSED EAST SEWER SERVICE AREAS**  
 CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 3.2-2





### 3.3 Future Sewer Flow Analysis

#### 3.3.1 Collection System Evaluation Criteria

In order to size the proposed mains and verify that the existing main running along the east side of US-93 can accept additional sewer flows, the anticipated population for each service area is converted to ERUs in accordance with the 2008 Wastewater Facility Plan. The peak hourly flow for each service area was determined using a 3.05 peaking factor. All sewer mains were sized with a 1.2 factor of safety and assumed that minimum slope values would be used during design, therefore, serving as a conservative estimate of flow capacity.

#### 3.3.2 Sewer Main Extension Evaluation

##### 3.3.2.1 West Sewer Service Area

Generally, the west service area drains north to south and is split into three smaller regions by the US-93 Bypass and Ashley Creek. Figure 3.3-1 identifies the ERUs and peak flow anticipated from each service area and depicts the proposed sewer main locations and sizing that will serve each area. Several of the service areas can be served by a local lift station, which could pump up to one of the proposed gravity mains. Proposed locations of gravity mains, force mains, and lift stations are utilized as a basis for planning established on the best available data at the time, engineering design practices, and existing development conditions. Exact locations of the utilities will be determined at the time of development and the City will ensure sound engineering practices are applied which meet City and State Standards, Regulations, and Policies.

Table 3.3-1 summarizes the service areas' ERUs, peak flows and sewer main(s) collecting flow from the area.

Table 3.3-1: West Service Area Hydraulic Summary

SERVICE AREA	ERUs	PEAK FLOW <sup>1</sup> (GPM)	RECEIVING MAINS	RECEIVING LIFT STATION
S-W-1	228	128	SM-1	LS-AC <sup>2</sup>
S-W-2	16	9	SM-1	LS-AC <sup>2</sup>
S-W-3	8	4	SM-1	LS-AC <sup>2</sup>
S-W-4	251	141	SM-2B to SM-2A	LS-SW4 to LS-AC <sup>2</sup>
S-W-5	491	276	SM-2C to SM-2B to SM-2A	LS-SW5 to LS-AC <sup>2</sup>
S-W-6	6	4	SM-2B to SM-2A	LS-AC <sup>2</sup>
S-W-7	170	95	SM-2D to SM-2B to SM-2A	LS-AC <sup>2</sup>
S-W-8	376	211	SM-2C to SM-2B to SM-2A	LS-AC <sup>2</sup>
S-W-9	153	86	SM-3C to SM-3A to SM-2A	LS-AC <sup>2</sup>
S-W-10	567	318	SM-3B to SM-3A to SM-2A	LS-AC <sup>2</sup>
S-W-11	188	106	SM-3C to SM-3A to SM-2A	LS-SW11 to LS-AC <sup>2</sup>
S-W-12	10	5	SM-4	Ex. Four Corners LS

1. Peak Flow = ERU x 265 gpd x 3.05 ÷ 24 hours/day ÷ 60 minutes/hour

2. LS-AC = Existing Ashley Creek Lift Station

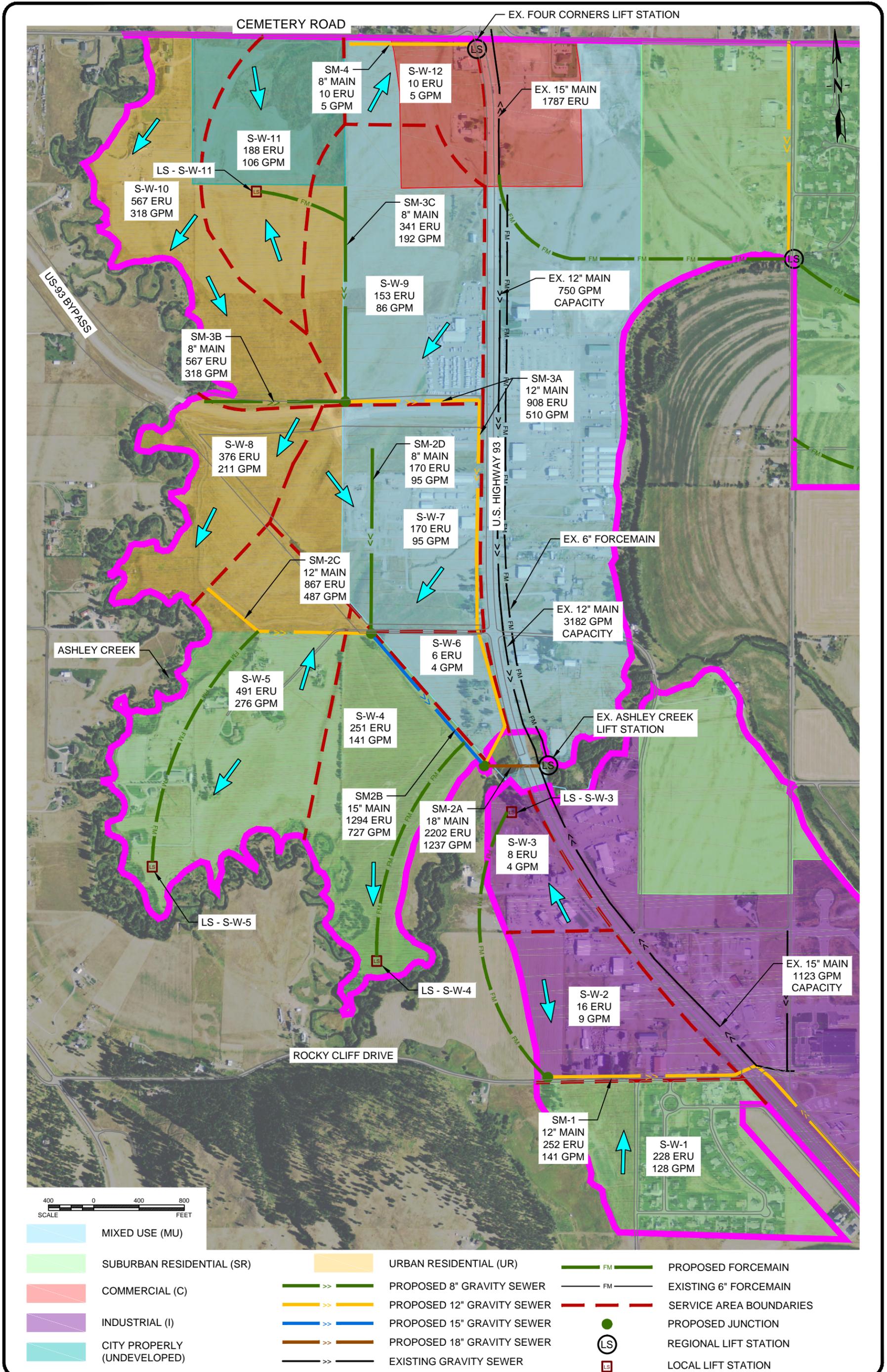
Two US-93 crossings at Ashley Creek and Rocky Cliff Drive would be necessary to avoid the construction of a new regional lift station. These crossings could connect to the existing 12" and 15" gravity mains on the east side of US-93, which have sufficient capacity to accept additional flows. Table 3.3-2 provides a summary of the proposed sewer main sizes and anticipated gravity flow.



Table 3.3-2: Summary of West Sewer Main Sizing

PROPOSED SEWER MAIN	CONTRIBUTING ERUs	CONTRIBUTING SERVICE AREA	PEAK FLOW (GPM)	SEWER MAIN SIZE (INCHES)	DISCHARGE LOCATION
SM-1	252	1,2,3	141	12 <sup>1</sup>	Ex. 15" Main @ Rocky Cliff Drive
SM-2A	2202	4,5,6,7,8,9,10,11	1237	18	Ex. Ashley Creek LS
SM-2B	1294	4,5,6,7,8	727	15	SM-2A
SM-2C	867	5,8	487	12	SM-2B
SM-2D	170	7	95	8	SM-2B
SM-3A	908	9,10,11	510	12	SM-2A
SM-3B	567	10	318	8	SM-3A
SM-3C	341	9,11	192	8	SM-3A
SM-4	10	12	5	8	Ex. Four Corners LS

1. Main has been upsized from 8" to 12" as there is potential to receive additional flows from areas west of Ashley Creek.



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**WEST SERVICE AREA SEWER MAIN LOCATIONS**  
CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
FIGURE 3.3-1





### 3.3.2.2 East Sewer Service Area

The east region is also divided into three smaller service areas with two situated adjacent to US-93, split by Ashley Creek. The third area is located east of a southeasterly running drainage located approximately 1,000 feet east of US-93 and south of Lower Valley Road. Figure 3.3-2 identifies the ERUs and peak flow anticipated from each service area and depicts the proposed sewer main locations and sizing to serve each area. Proposed locations of gravity mains, force mains, and lift stations are utilized as a basis for planning established on the best available data at the time, engineering design practices, and existing development conditions. Exact locations of the utilities will be determined at the time of development and the City will ensure sound engineering practices are applied which meet City and State Standards, Regulations, and Policies.

Table 3.3-3 summarizes the service areas' ERUs, peak flows and sewer main(s) collecting flow from the area.

*Table 3.3-3: East Service Area Hydraulic Summary*

SERVICE AREA	ERUs	PEAK FLOW <sup>1</sup> (GPM)	RECEIVING MAINS	RECEIVING LIFT STATION
S-E-1	97	54	SM-5 to Ex. 15" Main (South)	Ex. LS-AC <sup>2</sup>
S-E-2	246	138	Ex. 15" Main (South)	Ex. LS-AC <sup>2</sup>
S-E-3	43	24	Ex. 12" Main	Ex. LS-AC <sup>2</sup>
S-E-4	7	4	Ex. 15" Main (North)	Ex. Four Corners LS
S-E-5	256	143	SM-6	New Demersville LS
S-E-6	289	162	SM-6A	New Demersville LS
S-E-7	31	18	SM-7	LS-SE7 to Demersville LS
S-E-8	466	262	SM-7	LS-SE8 to Demersville LS
S-E-9	243	136	SM-6B	LS-SE9 to Demersville LS

1. Peak Flow = ERU x 265 gpd x 3.05 ÷ 24 hours/day ÷ 60 minutes/hour

2. LS-AC = Existing Ashley Creek Lift Station

The existing Ashley Creek regional lift station located at US-93 and Ashley Creek serves the areas adjacent to US-93 by receiving wastewater flows from an existing 12" main from the north and an existing 15" main from the south. Two 6-inch force mains convey wastewater from the lift station to an existing 15" main which discharges to the existing Four Corners Lift Station.

A new regional lift station sited at the south boundary of Service Area S-E-6 at Demersville Road could serve the residential area south and west of Lower Valley Road. The Demersville Lift Station would need to be located on the east side of the road to be located out of the 100-year floodplain. As all of these service areas require a local lift station, the site of the proposed Demersville Lift Station is centrally located to serve all of the contributing areas, minimizing the length of small diameter force mains. Table 3.3-4 provides a summary of the proposed sewer main sizes and anticipated gravity flow.

*Table 3.3-4: Summary of East Sewer Main Sizing*

SEWER MAIN	CONTRIBUTING ERUs	CONTRIBUTING SERVICE AREA	PEAK FLOW (GPM)	SEWER MAIN SIZE (INCHES)	DISCHARGE LOCATION
SM-5	97	1	54	12 <sup>1</sup>	Ex. 15" (South)
EX. 15" (S) <sup>2</sup>		1,2	192	15	Ex. LS-AC
EX. 12"	43	3	24	12	Ex. LS-AC
EX. 15" (N) <sup>3</sup>	7	4	4	15	Ex. Four Corners LS
SM-6A	545	5,6	305	12 <sup>5</sup>	New Demersville LS
SM-6B	243	9	136	8	New Demersville LS
SM-7 <sup>4</sup>	186	7,8	105	8	LS-SE8 to Demersville LS

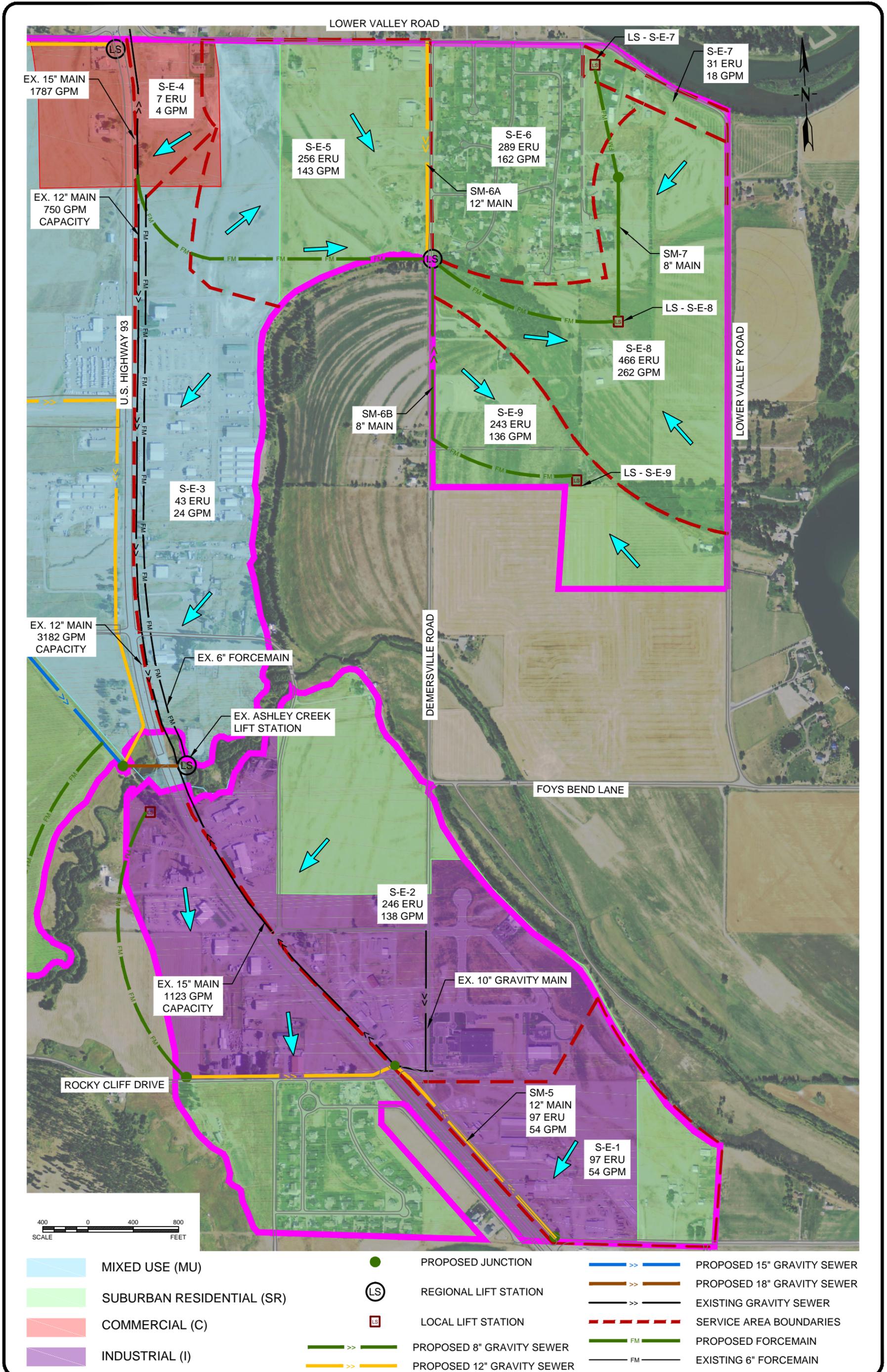
1. Main has been upsized from 8" to 12" as there is potential to receive additional flows from areas south of Auction Road.

2. Ex. 15" (S) extends north from Old School Station to the Ex. Ashley Creek Lift Station.

3. Ex. 15" (N) extends north from approximately 1500' south of Lower Valley Road to the Ex. Four Corners Lift Station.

4. It is estimated that a third of the contributing S-E-8 ERUs will discharge directly to SM-7. The remaining two-thirds will collect at S-E-8 via other local mains.

5. Main has been upsized from 10" to 12" as there is potential to receive additional flows from north of Lower Valley Road.



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**EAST SERVICE AREA SEWER MAIN LOCATIONS**  
 CITY OF KALISPELL WATER & SEWER FACILITY PLAN UPDATE  
 FIGURE 3.3-2





There appears to be sufficient capacity in the existing 12" main to receive additional flows from the west region north of the US-93 Bypass, which would account for 510 gpm (SM-3A). A more conservative approach was taken to site the crossing south at Ashley Creek and thus serve businesses that front US-93 and discharge into a portion of the main with significantly more capacity. It may be more cost effective to construct an additional crossing at the US-93/US-93 Bypass intersection versus installing an additional 3,000 lineal feet of 12" sewer main.

### **3.3.3 Conclusions**

The focus of this facility plan update with regard to the collection was on the system's ability to serve the anticipated growth of the South Kalispell planning area. Based on the projected development and flows, the existing infrastructure previously constructed along US-93 to serve the area has sufficient capacity to sustain additional growth. The planning area has decreased to encompass a smaller but still significant area. Most regions can be served with gravity sewers. However, topographic constraints still warrant the installation of six local lift stations and one larger regional lift station. More extensive analysis may indicate that future lift stations may not be necessary, and the City should work with developers to exclude lift stations whenever feasible.

#### **3.3.3.1 Future Recommendations**

Construction of new infrastructure is only necessary to the extent that new development moves into the area. It is anticipated that most new growth will occur along the US-93 corridor and expand outward. The core system infrastructure is already in-place on the east side of US-93. Therefore, the City's focus on serving future development should be directed at the west side of US-93. As previously indicated, it may be possible to collect wastewater from the area north of the US-93 Bypass and convey it directly across US-93 at the Bypass intersection. As proposed development through the region occurs, it is recommended that an evaluation of this crossing location and a cost estimate associated with constructing the new gravity main be developed. If growth continues to materialize in this area, the City could work with development, through the extension of services policy, to connect existing facilities.

*Appendix A: Existing Water Usage Data*

Account Number: 41308 / Name: JOHN AMISTOSO / Billing Address: 2525 N Monroe ST, Spokane, WA 99205  
Location Code: 8000-3075 / Service Address: FRED'S APPLIANCE / 3075 Hwy 93 S, Kalispell, MT 59901  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	06.29.2015				06.29.2015	556.35	0.00	0.00	0.00	0.00	0.00	Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	361.04	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	189.96	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	5.35	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill	06.19.2015	04.03.2015	06.02.2015	07.17.2015	06.19.2015	556.35	0.00	0.00	0.00	556.35	556.35	Run: 7868 / No: 10
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	5.35	0.00		CHARGE			61					
SW-0	361.04	0.00		CHARGE	04.01.2015	06.01.2015	61	547	619	72	0	
WA-0	189.96	0.00		CHARGE	04.01.2015	06.01.2015	61	547	619	72	0	

Payment	05.14.2015				05.14.2015	58.86	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	31.22	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	22.29	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	5.35	0.00	04.21.2015	05.15.2015	CHARGE

Cycle Bill	04.21.2015	02.03.2015	04.02.2015	05.15.2015	04.21.2015	58.86	0.00	0.00	0.00	58.86	58.86	Run: 7710 / No: 10
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	5.35	0.00		CHARGE			59					
SW-0	31.22	0.00		CHARGE	02.02.2015	04.01.2015	58	544	547	3	0	
WA-0	22.29	0.00		CHARGE	02.02.2015	04.01.2015	58	544	547	3	0	

Payment	03.13.2015				03.13.2015	51.65	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	26.44	0.00	02.20.2015	03.13.2015	CHARGE
WA-0	19.86	0.00	02.20.2015	03.13.2015	CHARGE
MR-0	5.35	0.00	02.20.2015	03.13.2015	CHARGE

Cycle Bill	02.20.2015	12.03.2014	02.02.2015	03.13.2015	02.20.2015	51.65	0.00	0.00	0.00	51.65	51.65	Run: 7595 / No: 10
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	5.35	0.00		CHARGE			62					
SW-0	26.44	0.00		CHARGE	12.03.2014	02.02.2015	61	542	544	2	0	
WA-0	19.86	0.00		CHARGE	12.03.2014	02.02.2015	61	542	544	2	0	

Payment	01.02.2015				01.02.2015	58.86	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
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Account Number: 41308 / Name: JOHN AMISTOSO / Billing Address: 2525 N Monroe ST, Spokane, WA 99205  
Location Code: 8000-3075 / Service Address: FRED'S APPLIANCE / 3075 Hwy 93 S, Kalispell, MT 59901  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
SW-0	31.22	0.00	12.10.2014	01.09.2015	CHARGE							
WA-0	22.29	0.00	12.10.2014	01.09.2015	CHARGE							
MR-0	5.35	0.00	12.10.2014	01.09.2015	CHARGE							
Cycle Bill	12.10.2014	10.03.2014	12.02.2014	01.09.2015	12.10.2014	58.86	0.00	0.00	0.00	58.86	58.86	Run: 7413 / No: 10
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	5.35	0.00		CHARGE			61					
SW-0	31.22	0.00		CHARGE	10.01.2014	12.03.2014	63	539	542	3	0	
WA-0	22.29	0.00		CHARGE	10.01.2014	12.03.2014	63	539	542	3	0	
Payment	10.27.2014				10.27.2014	1,720.51	0.00	0.00	0.00	0.00	0.00	Cash
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	1,111.50	0.00	10.15.2014	11.14.2014	CHARGE							
WA-0	571.47	0.00	10.15.2014	11.14.2014	CHARGE							
MR-0	5.35	0.00	10.15.2014	11.14.2014	CHARGE							
MC-97	32.19	0.00	10.15.2014	11.14.2014	MISC							
Cycle Bill	10.15.2014	08.03.2014	10.02.2014	11.14.2014	10.15.2014	1,720.51	0.00	0.00	0.00	1,720.51	1,720.51	Run: 7261 / No: 10
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MC-97	32.19	0.00		MISC								1 1/2" METER SPUD
MR-0	5.35	0.00		CHARGE			61					
SW-0	1,111.50	0.00		CHARGE	08.01.2014	10.01.2014	61	310	539	229	0	
WA-0	571.47	0.00		CHARGE	08.01.2014	10.01.2014	61	310	539	229	0	
Payment	09.09.2014				09.09.2014	2,266.84	0.00	0.00	0.00	0.00	0.00	Cash
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	1,496.19	0.00	08.13.2014	09.12.2014	CHARGE							
WA-0	766.09	0.00	08.13.2014	09.12.2014	CHARGE							
MR-0	4.56	0.00	08.13.2014	09.12.2014	CHARGE							
Cycle Bill	08.13.2014	06.03.2014	08.02.2014	09.12.2014	08.13.2014	2,266.84	0.00	0.00	0.00	2,266.84	2,266.84	Run: 7027 / No: 10
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	4.56	0.00		CHARGE			52					
SW-0	1,496.19	0.00		CHARGE	06.12.2014	08.01.2014	50	0	310	310	0	
WA-0	766.09	0.00		CHARGE	06.12.2014	08.01.2014	50	0	310	310	0	

Account Number: 41308 / Name: JOHN AMISTOSO / Billing Address: 2525 N Monroe ST, Spokane, WA 99205

Location Code: 8000-3075 / Service Address: FRED'S APPLIANCE / 3075 Hwy 93 S, Kalispell, MT 59901

Transactions From: 08.06.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
MR		0	31.31	0	5.22	0	0	6
SW		619	3,057.61	103	509.60	0	0	6
WA		619	1,591.96	103	265.33	0	0	6

Payments: 4,713

Account Number: 35961 / Name: FUN BEVERAGE-WAREHOUSE / Billing Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Location Code: 8000-7010 / Service Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	07.20.2015				07.22.2015	477.81	0.00	0.00	0.00	0.00	0.00	Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	126.82	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	70.89	0.00	06.19.2015	07.17.2015	CHARGE
IR-0	244.40	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	28.20	0.00	06.19.2015	07.17.2015	CHARGE
MR-2	7.50	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill 06.19.2015 04.03.2015 06.02.2015 07.17.2015 06.19.2015 477.81 0.00 0.00 0.00 477.81 477.81 Run: 7868 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			61					
MR-2	7.50	0.00		CHARGE			61					
SW-0	126.82	0.00		CHARGE	04.01.2015	06.01.2015	61	986	1,009	23	0	
IR-0	244.40	0.00		CHARGE	04.01.2015	06.01.2015	61	4,638	4,786	148	0	
WA-0	70.89	0.00		CHARGE	04.01.2015	06.01.2015	61	986	1,009	23	0	

Payment 05.15.2015 05.15.2015 233.99 0.00 0.00 0.00 0.00 0.00 Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	117.26	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	66.03	0.00	04.21.2015	05.15.2015	CHARGE
IR-0	15.00	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	28.20	0.00	04.21.2015	05.15.2015	CHARGE
MR-2	7.50	0.00	04.21.2015	05.15.2015	CHARGE

Cycle Bill 04.21.2015 02.03.2015 04.02.2015 05.15.2015 04.21.2015 233.99 0.00 0.00 0.00 233.99 233.99 Run: 7710 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			59					
MR-2	7.50	0.00		CHARGE			59					
SW-0	117.26	0.00		CHARGE	02.02.2015	04.01.2015	58	965	986	21	0	
IR-0	15.00	0.00		CHARGE	02.02.2015	04.01.2015	58	4,638	4,638	0	0	
WA-0	66.03	0.00		CHARGE	02.02.2015	04.01.2015	58	965	986	21	0	

Payment 03.13.2015 03.13.2015 249.96 0.00 0.00 0.00 0.00 0.00 Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	126.82	0.00	02.20.2015	03.13.2015	CHARGE
WA-0	70.89	0.00	02.20.2015	03.13.2015	CHARGE
IR-0	16.55	0.00	02.20.2015	03.13.2015	CHARGE
MR-0	28.20	0.00	02.20.2015	03.13.2015	CHARGE

Account Number: 35961 / Name: FUN BEVERAGE-WAREHOUSE / Billing Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Location Code: 8000-7010 / Service Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
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MR-2 7.50 0.00 02.20.2015 03.13.2015 CHARGE

Cycle Bill 02.20.2015 12.03.2014 02.02.2015 03.13.2015 02.20.2015 249.96 0.00 0.00 0.00 249.96 249.96 Run: 7595 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			62					
MR-2	7.50	0.00		CHARGE			62					
SW-0	126.82	0.00		CHARGE	12.03.2014	02.02.2015	61	942	965	23	0	
IR-0	16.55	0.00		CHARGE	12.03.2014	02.02.2015	61	4,637	4,638	1	0	
WA-0	70.89	0.00		CHARGE	12.03.2014	02.02.2015	61	942	965	23	0	

Payment 01.12.2015 01.12.2015 226.78 0.00 0.00 0.00 0.00 0.00 Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	112.48	0.00	12.10.2014	01.09.2015	CHARGE
WA-0	63.60	0.00	12.10.2014	01.09.2015	CHARGE
IR-0	15.00	0.00	12.10.2014	01.09.2015	CHARGE
MR-0	28.20	0.00	12.10.2014	01.09.2015	CHARGE
MR-2	7.50	0.00	12.10.2014	01.09.2015	CHARGE

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 226.78 0.00 0.00 0.00 226.78 226.78 Run: 7413 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			61					
MR-2	7.50	0.00		CHARGE			61					
SW-0	112.48	0.00		CHARGE	10.01.2014	12.03.2014	63	922	942	20	0	
IR-0	15.00	0.00		CHARGE	10.01.2014	12.03.2014	63	4,637	4,637	0	0	
WA-0	63.60	0.00		CHARGE	10.01.2014	12.03.2014	63	922	942	20	0	

Payment 11.14.2014 11.14.2014 484.08 0.00 0.00 0.00 0.00 0.00 Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	112.48	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	63.60	0.00	10.15.2014	11.14.2014	CHARGE
IR-0	272.30	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	28.20	0.00	10.15.2014	11.14.2014	CHARGE
MR-2	7.50	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 484.08 0.00 0.00 0.00 484.08 484.08 Run: 7261 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			61					
MR-2	7.50	0.00		CHARGE			61					

Account Number: 35961 / Name: FUN BEVERAGE-WAREHOUSE / Billing Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
 Location Code: 8000-7010 / Service Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925  
 Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
SW-0	112.48	0.00		CHARGE	08.01.2014	10.01.2014	61	902	922	20	0	
IR-0	272.30	0.00		CHARGE	08.01.2014	10.01.2014	61	4,471	4,637	166	0	
WA-0	63.60	0.00		CHARGE	08.01.2014	10.01.2014	61	902	922	20	0	

Payment 09.12.2014 09.12.2014 556.39 0.00 0.00 0.00 0.00 0.00 Receipt: DRAFTBank Draft

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	117.26	0.00	08.13.2014	09.12.2014	CHARGE
WA-0	66.03	0.00	08.13.2014	09.12.2014	CHARGE
IR-0	337.40	0.00	08.13.2014	09.12.2014	CHARGE
MR-0	28.20	0.00	08.13.2014	09.12.2014	CHARGE
MR-2	7.50	0.00	08.13.2014	09.12.2014	CHARGE

Cycle Bill 08.13.2014 06.03.2014 08.02.2014 09.12.2014 08.13.2014 556.39 0.00 0.00 0.00 556.39 556.39 Run: 7027 / No: 1

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	28.20	0.00		CHARGE			61					
MR-2	7.50	0.00		CHARGE			61					
SW-0	117.26	0.00		CHARGE	06.03.2014	08.01.2014	59	881	902	21	0	
IR-0	337.40	0.00		CHARGE	06.03.2014	08.01.2014	59	4,263	4,471	208	0	
WA-0	66.03	0.00		CHARGE	06.03.2014	08.01.2014	59	881	902	21	0	

Account Number: 35961 / Name: FUN BEVERAGE-WAREHOUSE / Billing Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925

Location Code: 8000-7010 / Service Address: 175 Schoolhouse LOOP, Kalispell, MT 59901-7925

Transactions From: 08.06.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
IR		523	900.65	87	150.11	0	0	6
MR		0	169.20	0	28.20	0	0	6
MR	2	0	45.00	0	7.50	0	0	6
SW		128	713.12	21	118.85	0	0	6
WA		128	401.04	21	66.84	0	0	6

Payments: 2,229

Account Number: 36661 / Name: KALISPELL TOYOTA / Billing Address: GERRID GANDRUD / 2845 Us Highway 93 S, Kalispell, MT 59901-8601  
Location Code: 8000-891 / Service Address: 2845 Us Highway 93 S, Kalispell, MT 59901-8601  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	07.13.2015				07.13.2015	1,214.78	0.00	0.00	0.00	0.00	0.00	Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	447.08	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	233.70	0.00	06.19.2015	07.17.2015	CHARGE
IR-0	526.50	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	7.50	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill 06.19.2015 04.03.2015 06.02.2015 07.17.2015 06.19.2015 1,214.78 0.00 0.00 0.00 1,214.78 1,214.78 Run: 7868 / No: 3

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	447.08	0.00		CHARGE	04.01.2015	06.01.2015	61	5,090	5,180	90	0	
IR-0	526.50	0.00		CHARGE	04.01.2015	06.01.2015	61	9,528	9,858	330	0	
WA-0	233.70	0.00		CHARGE	04.01.2015	06.01.2015	61	5,090	5,180	90	0	

Payment 04.27.2015 04.27.2015 846.90 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	552.24	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	287.16	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	7.50	0.00	04.21.2015	05.15.2015	CHARGE

Cycle Bill 04.21.2015 02.03.2015 04.02.2015 05.15.2015 04.21.2015 846.90 0.00 0.00 0.00 846.90 846.90 Run: 7710 / No: 3

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			59					
SW-0	552.24	0.00		CHARGE	02.02.2015	04.01.2015	58	4,978	5,090	112	0	
IR-0	0.00	0.00		CHARGE	02.02.2015	04.01.2015	58	9,528	9,528	0	0	
WA-0	287.16	0.00		CHARGE	02.02.2015	04.01.2015	58	4,978	5,090	112	0	

Payment 03.02.2015 03.02.2015 681.07 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	442.30	0.00	02.20.2015	03.13.2015	CHARGE
WA-0	231.27	0.00	02.20.2015	03.13.2015	CHARGE
MR-0	7.50	0.00	02.20.2015	03.13.2015	CHARGE

Cycle Bill 02.20.2015 12.03.2014 02.02.2015 03.13.2015 02.20.2015 681.07 0.00 0.00 0.00 681.07 681.07 Run: 7595 / No: 3

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			62					
SW-0	442.30	0.00		CHARGE	12.03.2014	02.02.2015	61	4,889	4,978	89	0	
IR-0	0.00	0.00		CHARGE	12.03.2014	02.02.2015	61	9,528	9,528	0	0	

Account Number: 36661 / Name: KALISPELL TOYOTA / Billing Address: GERRID GANDRUD / 2845 Us Highway 93 S, Kalispell, MT 59901-8601  
Location Code: 8000-891 / Service Address: 2845 Us Highway 93 S, Kalispell, MT 59901-8601  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
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WA-0 231.27 0.00 CHARGE 12.03.2014 02.02.2015 61 4,889 4,978 89 0

Payment 12.16.2014 12.16.2014 717.70 0.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	456.64	0.00	12.10.2014	01.09.2015	CHARGE
WA-0	238.56	0.00	12.10.2014	01.09.2015	CHARGE
IR-0	15.00	0.00	12.10.2014	01.09.2015	CHARGE
MR-0	7.50	0.00	12.10.2014	01.09.2015	CHARGE

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 717.70 0.00 0.00 0.00 717.70 717.70 Run: 7413 / No: 3

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	456.64	0.00		CHARGE	10.01.2014	12.03.2014	63	4,797	4,889	92	0	
IR-0	15.00	0.00		CHARGE	10.01.2014	12.03.2014	63	9,528	9,528	0	0	
WA-0	238.56	0.00		CHARGE	10.01.2014	12.03.2014	63	4,797	4,889	92	0	

Payment 10.27.2014 10.27.2014 1,568.30 0.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	528.34	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	275.01	0.00	10.15.2014	11.14.2014	CHARGE
IR-0	757.45	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	7.50	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 1,568.30 0.00 0.00 0.00 1,568.30 1,568.30 Run: 7261 / No: 3

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	528.34	0.00		CHARGE	08.01.2014	10.01.2014	61	4,690	4,797	107	0	
IR-0	757.45	0.00		CHARGE	08.01.2014	10.01.2014	61	9,049	9,528	479	0	
WA-0	275.01	0.00		CHARGE	08.01.2014	10.01.2014	61	4,690	4,797	107	0	

Payment 08.18.2014 08.18.2014 2,182.64 0.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	523.56	0.00	08.13.2014	09.12.2014	CHARGE
WA-0	272.58	0.00	08.13.2014	09.12.2014	CHARGE
IR-0	1,379.00	0.00	08.13.2014	09.12.2014	CHARGE
MR-0	7.50	0.00	08.13.2014	09.12.2014	CHARGE

Cycle Bill 08.13.2014 06.03.2014 08.02.2014 09.12.2014 08.13.2014 2,182.64 0.00 0.00 0.00 2,182.64 2,182.64 Run: 7027 / No: 3

Account Number: 36661 / Name: KALISPELL TOYOTA / Billing Address: GERRID GANDRUD / 2845 Us Highway 93 S, Kalispell, MT 59901-8601

Location Code: 8000-891 / Service Address: 2845 Us Highway 93 S, Kalispell, MT 59901-8601

Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details	
	SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
	MR-0	7.50	0.00		CHARGE			61					
	SW-0	523.56	0.00		CHARGE	06.03.2014	08.01.2014	59	4,584	4,690	106	0	
	IR-0	1,379.00	0.00		CHARGE	06.03.2014	08.01.2014	59	8,169	9,049	880	0	
	WA-0	272.58	0.00		CHARGE	06.03.2014	08.01.2014	59	4,584	4,690	106	0	

Account Number: 36661 / Name: KALISPELL TOYOTA / Billing Address: GERRID GANDRUD / 2845 Us Highway 93 S, Kalispell, MT 59901-8601

Location Code: 8000-891 / Service Address: 2845 Us Highway 93 S, Kalispell, MT 59901-8601

Transactions From: 08.06.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
IR		1,689	2,677.95	282	446.33	0	0	6
MR		0	45.00	0	7.50	0	0	6
SW		596	2,950.16	99	491.69	0	0	6
WA		596	1,538.28	99	256.38	0	0	6

Payments: 7,211

Account Number: 36987 / Name: MORRISON MAIRELE / Billing Address: 125 Schoolhouse Loop, Kalispell, MT 59901  
Location Code: 8000-7020 / Service Address: 125 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	07.13.2015				07.13.2015	236.59	0.00	0.00	0.00	0.00	0.00	Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	36.00	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	24.72	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	2.75	0.00	04.21.2015	05.15.2015	CHARGE
MR-2	1.60	0.00	04.21.2015	05.15.2015	CHARGE
SW-0	36.00	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	24.72	0.00	06.19.2015	07.17.2015	CHARGE
IR-0	106.45	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	2.75	0.00	06.19.2015	07.17.2015	CHARGE
MR-2	1.60	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill 06.19.2015 04.03.2015 06.02.2015 07.17.2015 06.19.2015 171.52 0.00 0.00 0.00 171.52 236.59 Run: 7868 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	36.00	0.00		CHARGE	04.01.2015	06.01.2015	61	282	286	4	0	
IR-0	106.45	0.00		CHARGE	04.01.2015	06.01.2015	61	1,848	1,907	59	0	
WA-0	24.72	0.00		CHARGE	04.01.2015	06.01.2015	61	282	286	4	0	

Cycle Bill 04.21.2015 02.03.2015 04.02.2015 05.15.2015 04.21.2015 65.07 0.00 0.00 0.00 65.07 65.07 Run: 7710 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			59					
MR-2	1.60	0.00		CHARGE			59					
SW-0	36.00	0.00		CHARGE	02.02.2015	04.01.2015	58	278	282	4	0	
IR-0	0.00	0.00		CHARGE	02.02.2015	04.01.2015	58	1,848	1,848	0	0	
WA-0	24.72	0.00		CHARGE	02.02.2015	04.01.2015	58	278	282	4	0	

Payment 03.09.2015 03.09.2015 65.07 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	36.00	0.00	02.20.2015	03.13.2015	CHARGE
WA-0	24.72	0.00	02.20.2015	03.13.2015	CHARGE
MR-0	2.75	0.00	02.20.2015	03.13.2015	CHARGE
MR-2	1.60	0.00	02.20.2015	03.13.2015	CHARGE

Cycle Bill 02.20.2015 12.03.2014 02.02.2015 03.13.2015 02.20.2015 65.07 0.00 0.00 0.00 65.07 65.07 Run: 7595 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			62					

Account Number: 36987 / Name: MORRISON MAIRELE / Billing Address: 125 Schoolhouse Loop, Kalispell, MT 59901  
Location Code: 8000-7020 / Service Address: 125 Schoolhouse LOOP, Kalispell, MT 59901-7925  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
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MR-2	1.60	0.00			CHARGE	62						
SW-0	36.00	0.00			CHARGE	12.03.2014 02.02.2015	61	274	278	4	0	
IR-0	0.00	0.00			CHARGE	12.03.2014 02.02.2015	61	1,848	1,848	0	0	
WA-0	24.72	0.00			CHARGE	12.03.2014 02.02.2015	61	274	278	4	0	

Payment 01.06.2015 01.06.2015 72.86 0.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	31.22	0.00	12.10.2014	01.09.2015	CHARGE
WA-0	22.29	0.00	12.10.2014	01.09.2015	CHARGE
IR-0	15.00	0.00	12.10.2014	01.09.2015	CHARGE
MR-2	1.60	0.00	12.10.2014	01.09.2015	CHARGE
MR-0	2.75	0.00	12.10.2014	01.09.2015	CHARGE

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 72.86 0.00 0.00 0.00 72.86 72.86 Run: 7413 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	31.22	0.00		CHARGE	10.01.2014	12.03.2014	63	271	274	3	0	
IR-0	15.00	0.00		CHARGE	10.01.2014	12.03.2014	63	1,848	1,848	0	0	
WA-0	22.29	0.00		CHARGE	10.01.2014	12.03.2014	63	271	274	3	0	

Payment 11.10.2014 11.10.2014 407.12 0.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	36.00	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	24.72	0.00	10.15.2014	11.14.2014	CHARGE
IR-0	342.05	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	2.75	0.00	10.15.2014	11.14.2014	CHARGE
MR-2	1.60	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 407.12 0.00 0.00 0.00 407.12 407.12 Run: 7261 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	36.00	0.00		CHARGE	08.01.2014	10.01.2014	61	267	271	4	0	
IR-0	342.05	0.00		CHARGE	08.01.2014	10.01.2014	61	1,637	1,848	211	0	
WA-0	24.72	0.00		CHARGE	08.01.2014	10.01.2014	61	267	271	4	0	

Payment 09.08.2014 09.08.2014 278.47 0.00 0.00 0.00 0.00 0.00 0.00 Cash

Account Number: 36987 / Name: MORRISON MAIRELE / Billing Address: 125 Schoolhouse Loop, Kalispell, MT 59901  
 Location Code: 8000-7020 / Service Address: 125 Schoolhouse LOOP, Kalispell, MT 59901-7925  
 Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	36.00	0.00	08.13.2014	09.12.2014	CHARGE							
WA-0	24.72	0.00	08.13.2014	09.12.2014	CHARGE							
IR-0	213.40	0.00	08.13.2014	09.12.2014	CHARGE							
MR-0	2.75	0.00	08.13.2014	09.12.2014	CHARGE							
MR-2	1.60	0.00	08.13.2014	09.12.2014	CHARGE							

Cycle Bill      08.13.2014 06.03.2014 08.02.2014 09.12.2014 08.13.2014      278.47      0.00      0.00      0.00      278.47      278.47      Run: 7027 / No: 6

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.75	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	36.00	0.00		CHARGE	06.03.2014	08.01.2014	59	263	267	4	0	
IR-0	213.40	0.00		CHARGE	06.03.2014	08.01.2014	59	1,509	1,637	128	0	
WA-0	24.72	0.00		CHARGE	06.03.2014	08.01.2014	59	263	267	4	0	

Account Number: 36987 / Name: MORRISON MAIRELE / Billing Address: 125 Schoolhouse Loop, Kalispell, MT 59901

Location Code: 8000-7020 / Service Address: 125 Schoolhouse LOOP, Kalispell, MT 59901-7925

Transactions From: 08.06.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
IR		398	676.90	66	112.82	0	0	6
MR		0	16.50	0	2.75	0	0	6
MR	2	0	9.60	0	1.60	0	0	6
SW		23	211.22	4	35.20	0	0	6
WA		23	145.89	4	24.32	0	0	6

Payments: 1,060

Account Number: 36729 / Name: TOWN PUMP INC / Billing Address: 600 S Main ST, Butte, MT 59701-2534  
 Location Code: 8000-900 / Service Address: 2910 Us Highway 93 S, Kalispell, MT 59901-7901  
 Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	07.06.2015				07.06.2015	767.59	0.00	0.00	0.00	0.00	0.00	Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	499.66	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	260.43	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	7.50	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill	06.19.2015	04.03.2015	06.02.2015	07.17.2015	06.19.2015	767.59	0.00	0.00	0.00	767.59	767.59	Run: 7868 / No: 4
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	499.66	0.00		CHARGE	04.01.2015	06.01.2015	61	5,142	5,243	101	0	
WA-0	260.43	0.00		CHARGE	04.01.2015	06.01.2015	61	5,142	5,243	101	0	

Payment	05.04.2015				05.04.2015	450.35	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	289.34	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	153.51	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	7.50	0.00	04.21.2015	05.15.2015	CHARGE

Cycle Bill	04.21.2015	02.03.2015	04.02.2015	05.15.2015	04.21.2015	450.35	0.00	0.00	0.00	450.35	450.35	Run: 7710 / No: 4
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			59					
SW-0	289.34	0.00		CHARGE	02.02.2015	04.01.2015	58	5,085	5,142	57	0	
WA-0	153.51	0.00		CHARGE	02.02.2015	04.01.2015	58	5,085	5,142	57	0	

Payment	03.16.2015				03.16.2015	421.51	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	270.22	0.00	02.20.2015	03.13.2015	CHARGE
WA-0	143.79	0.00	02.20.2015	03.13.2015	CHARGE
MR-0	7.50	0.00	02.20.2015	03.13.2015	CHARGE

Cycle Bill	02.20.2015	12.03.2014	02.02.2015	03.13.2015	02.20.2015	421.51	0.00	0.00	0.00	421.51	421.51	Run: 7595 / No: 4
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			62					
SW-0	270.22	0.00		CHARGE	12.03.2014	02.02.2015	61	5,032	5,085	53	0	
WA-0	143.79	0.00		CHARGE	12.03.2014	02.02.2015	61	5,032	5,085	53	0	

Payment	12.19.2014				12.19.2014	515.24	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
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Account Number: 36729 / Name: TOWN PUMP INC / Billing Address: 600 S Main ST, Butte, MT 59701-2534  
Location Code: 8000-900 / Service Address: 2910 Us Highway 93 S, Kalispell, MT 59901-7901  
Transactions From: 08.06.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
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SW-0	332.36	0.00	12.10.2014	01.09.2015	CHARGE							
WA-0	175.38	0.00	12.10.2014	01.09.2015	CHARGE							
MR-0	7.50	0.00	12.10.2014	01.09.2015	CHARGE							

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 515.24 0.00 0.00 0.00 515.24 515.24 Run: 7413 / No: 4

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	332.36	0.00		CHARGE	10.01.2014	12.03.2014	63	4,966	5,032	66	0	
WA-0	175.38	0.00		CHARGE	10.01.2014	12.03.2014	63	4,966	5,032	66	0	

Payment 10.29.2014 10.29.2014 1,171.35 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	767.34	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	396.51	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	7.50	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 1,171.35 0.00 0.00 0.00 1,171.35 1,171.35 Run: 7261 / No: 4

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	767.34	0.00		CHARGE	08.01.2014	10.01.2014	61	4,809	4,966	157	0	
WA-0	396.51	0.00		CHARGE	08.01.2014	10.01.2014	61	4,809	4,966	157	0	

Payment 08.25.2014 08.25.2014 1,690.47 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	1,111.50	0.00	08.13.2014	09.12.2014	CHARGE
WA-0	571.47	0.00	08.13.2014	09.12.2014	CHARGE
MR-0	7.50	0.00	08.13.2014	09.12.2014	CHARGE

Cycle Bill 08.13.2014 06.03.2014 08.02.2014 09.12.2014 08.13.2014 1,690.47 0.00 0.00 0.00 1,690.47 1,690.47 Run: 7027 / No: 4

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	7.50	0.00		CHARGE			61					
SW-0	1,111.50	0.00		CHARGE	06.03.2014	08.01.2014	59	4,580	4,809	229	0	
WA-0	571.47	0.00		CHARGE	06.03.2014	08.01.2014	59	4,580	4,809	229	0	

Account Number: 36729 / Name: TOWN PUMP INC / Billing Address: 600 S Main ST, Butte, MT 59701-2534

Location Code: 8000-900 / Service Address: 2910 Us Highway 93 S, Kalispell, MT 59901-7901

Transactions From: 08.06.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
MR		0	45.00	0	7.50	0	0	6
SW		663	3,270.42	111	545.07	0	0	6
WA		663	1,701.09	111	283.52	0	0	6

Payments: 5,017

Account Number: 36053 / Name: GARDNER AUCTION SERVIC / Billing Address: PO BX 958 / Kalispell, MT 59903  
Location Code: 8000-1110 / Service Address: 200 United Loop, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Payment	08.17.2015				08.17.2015	213.73	0.00	0.00	0.00	0.00	0.00	Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	136.38	0.00	08.10.2015	09.11.2015	CHARGE
WA-0	75.75	0.00	08.10.2015	09.11.2015	CHARGE
MR-0	1.60	0.00	08.10.2015	09.11.2015	CHARGE

Cycle Bill	08.10.2015	06.03.2015	08.02.2015	09.11.2015	08.10.2015	213.73	0.00	0.00	0.00	213.73	213.73	Run: 8001 / No: 2
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	136.38	0.00		CHARGE	06.01.2015	08.04.2015	64	648	673	25	0	
WA-0	75.75	0.00		CHARGE	06.01.2015	08.04.2015	64	648	673	25	0	

Payment	06.26.2015				06.26.2015	120.00	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	74.24	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	44.16	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	1.60	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill	06.19.2015	04.03.2015	06.02.2015	07.17.2015	06.19.2015	120.00	0.00	0.00	0.00	120.00	120.00	Run: 7868 / No: 2
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	74.24	0.00		CHARGE	04.01.2015	06.01.2015	61	636	648	12	0	
WA-0	44.16	0.00		CHARGE	04.01.2015	06.01.2015	61	636	648	12	0	

Payment	05.04.2015				05.04.2015	127.21	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	79.02	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	46.59	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	1.60	0.00	04.21.2015	05.15.2015	CHARGE

Cycle Bill	04.21.2015	02.03.2015	04.02.2015	05.15.2015	04.21.2015	127.21	0.00	0.00	0.00	127.21	127.21	Run: 7710 / No: 2
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SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			59					
SW-0	79.02	0.00		CHARGE	02.02.2015	04.01.2015	58	623	636	13	0	
WA-0	46.59	0.00		CHARGE	02.02.2015	04.01.2015	58	623	636	13	0	

Payment	03.02.2015				03.02.2015	105.58	0.00	0.00	0.00	0.00	0.00	Cash
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SVC	Amount	Tax	Bill Date	Due Date	Type
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Account Number: 36053 / Name: GARDNER AUCTION SERVIC / Billing Address: PO BX 958 / Kalispell, MT 59903  
Location Code: 8000-1110 / Service Address: 200 United Loop, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
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SW-0	64.68	0.00	02.20.2015	03.13.2015	CHARGE							
WA-0	39.30	0.00	02.20.2015	03.13.2015	CHARGE							
MR-0	1.60	0.00	02.20.2015	03.13.2015	CHARGE							

Cycle Bill 02.20.2015 12.03.2014 02.02.2015 03.13.2015 02.20.2015 105.58 0.00 0.00 0.00 105.58 105.58 Run: 7595 / No: 2

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			62					
SW-0	64.68	0.00		CHARGE	12.03.2014	02.02.2015	61	613	623	10	0	
WA-0	39.30	0.00		CHARGE	12.03.2014	02.02.2015	61	613	623	10	0	

Payment 12.23.2014 12.23.2014 127.21 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	79.02	0.00	12.10.2014	01.09.2015	CHARGE
WA-0	46.59	0.00	12.10.2014	01.09.2015	CHARGE
MR-0	1.60	0.00	12.10.2014	01.09.2015	CHARGE

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 127.21 0.00 0.00 0.00 127.21 127.21 Run: 7413 / No: 2

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	79.02	0.00		CHARGE	10.01.2014	12.03.2014	63	600	613	13	0	
WA-0	46.59	0.00		CHARGE	10.01.2014	12.03.2014	63	600	613	13	0	

Payment 10.28.2014 10.28.2014 170.47 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	107.70	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	61.17	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	1.60	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 170.47 0.00 0.00 0.00 170.47 170.47 Run: 7261 / No: 2

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	107.70	0.00		CHARGE	08.01.2014	10.01.2014	61	581	600	19	0	
WA-0	61.17	0.00		CHARGE	08.01.2014	10.01.2014	61	581	600	19	0	

Payment 08.25.2014 08.25.2014 156.05 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	98.14	0.00	08.13.2014	09.12.2014	CHARGE
WA-0	56.31	0.00	08.13.2014	09.12.2014	CHARGE

Account Number: 36053 / Name: GARDNER AUCTION SERVIC / Billing Address: PO BX 958 /, Kalispell, MT 59903  
Location Code: 8000-1110 / Service Address: 200 United Loop, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
	MR-0	1.60	0.00	08.13.2014	09.12.2014	CHARGE						

Account Number: 36053 / Name: GARDNER AUCTION SERVIC / Billing Address: PO BX 958 /, Kalispell, MT 59903

Location Code: 8000-1110 / Service Address: 200 United Loop, Kalispell, MT 59901

Transactions From: 08.18.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
MR		0	9.60	0	1.60	0	0	6
SW		92	541.04	15	90.17	0	0	6
WA		92	313.56	15	52.26	0	0	6

Payments: 1,020

Account Number: 40832 / Name: GARDNER INVESTMENTS LLC / Billing Address: PO BOX 958 Kalispell, MT 59903  
Location Code: 8000-1111 / Service Address: 201 United Dr, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
Cycle Bill	08.10.2015	06.03.2015	08.02.2015	09.11.2015	08.10.2015	200.36	0.00	0.00	0.00	200.36	200.36	Run: 8001 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	68.94	0.00		CHARGE	06.01.2015	08.04.2015	64	154	162	8	0	
IR-0	84.75	0.00		CHARGE	06.01.2015	08.04.2015	64	867	912	45	0	
WA-0	43.07	0.00		CHARGE	06.01.2015	08.04.2015	64	154	162	8	0	

Payment 07.01.2015 07.01.2015 129.24 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	21.10	0.00	04.21.2015	05.15.2015	CHARGE
WA-0	18.75	0.00	04.21.2015	05.15.2015	CHARGE
MR-0	2.00	0.00	04.21.2015	05.15.2015	CHARGE
MR-2	1.60	0.00	04.21.2015	05.15.2015	CHARGE
SW-0	33.06	0.00	06.19.2015	07.17.2015	CHARGE
WA-0	24.83	0.00	06.19.2015	07.17.2015	CHARGE
IR-0	24.30	0.00	06.19.2015	07.17.2015	CHARGE
MR-0	2.00	0.00	06.19.2015	07.17.2015	CHARGE
MR-2	1.60	0.00	06.19.2015	07.17.2015	CHARGE

Cycle Bill 06.19.2015 04.03.2015 06.02.2015 07.17.2015 06.19.2015 85.79 0.00 0.00 0.00 85.79 129.24 Run: 7868 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	33.06	0.00		CHARGE	04.01.2015	06.01.2015	61	152	154	2 E	0	
IR-0	24.30	0.00		CHARGE	04.01.2015	06.01.2015	61	861	867	6	0	
WA-0	24.83	0.00		CHARGE	04.01.2015	06.01.2015	61	152	154	2 E	0	

Cycle Bill 04.21.2015 02.03.2015 04.02.2015 05.15.2015 04.21.2015 43.45 0.00 0.00 0.00 43.45 43.45 Run: 7710 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			59					
MR-2	1.60	0.00		CHARGE			59					
SW-0	21.10	0.00		CHARGE	02.02.2015	04.01.2015	58	152	152	0	0	
IR-0	0.00	0.00		CHARGE	02.02.2015	04.01.2015	58	861	861	0	0	
WA-0	18.75	0.00		CHARGE	02.02.2015	04.01.2015	58	152	152	0	0	

Payment 03.16.2015 03.16.2015 101.90 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type

Account Number: 40832 / Name: GARDNER INVESTMENTS LLC / Billing Address: PO BOX 958 Kalispell, MT 59903  
Location Code: 8000-1111 / Service Address: 201 United Dr, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
SW-0	21.10	0.00	12.10.2014	01.09.2015	CHARGE							
WA-0	18.75	0.00	12.10.2014	01.09.2015	CHARGE							
IR-0	15.00	0.00	12.10.2014	01.09.2015	CHARGE							
MR-0	2.00	0.00	12.10.2014	01.09.2015	CHARGE							
MR-2	1.60	0.00	12.10.2014	01.09.2015	CHARGE							
SW-0	21.10	0.00	02.20.2015	03.13.2015	CHARGE							
WA-0	18.75	0.00	02.20.2015	03.13.2015	CHARGE							
MR-0	2.00	0.00	02.20.2015	03.13.2015	CHARGE							
MR-2	1.60	0.00	02.20.2015	03.13.2015	CHARGE							

Cycle Bill 02.20.2015 12.03.2014 02.02.2015 03.13.2015 02.20.2015 43.45 0.00 0.00 0.00 43.45 101.90 Run: 7595 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			62					
MR-2	1.60	0.00		CHARGE			62					
SW-0	21.10	0.00		CHARGE	12.03.2014	02.02.2015	61	152	152	0	0	
IR-0	0.00	0.00		CHARGE	12.03.2014	02.02.2015	61	861	861	0	0	
WA-0	18.75	0.00		CHARGE	12.03.2014	02.02.2015	61	152	152	0	0	

Cycle Bill 12.10.2014 10.03.2014 12.02.2014 01.09.2015 12.10.2014 58.45 0.00 0.00 0.00 58.45 58.45 Run: 7413 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					
SW-0	21.10	0.00		CHARGE	10.01.2014	12.03.2014	63	152	152	0	0	
IR-0	15.00	0.00		CHARGE	10.01.2014	12.03.2014	63	861	861	0	0	
WA-0	18.75	0.00		CHARGE	10.01.2014	12.03.2014	63	152	152	0	0	

Payment 10.21.2014 10.21.2014 153.00 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	21.10	0.00	10.15.2014	11.14.2014	CHARGE
WA-0	18.75	0.00	10.15.2014	11.14.2014	CHARGE
IR-0	109.55	0.00	10.15.2014	11.14.2014	CHARGE
MR-0	2.00	0.00	10.15.2014	11.14.2014	CHARGE
MR-2	1.60	0.00	10.15.2014	11.14.2014	CHARGE

Cycle Bill 10.15.2014 08.03.2014 10.02.2014 11.14.2014 10.15.2014 153.00 0.00 0.00 0.00 153.00 153.00 Run: 7261 / No: 9

SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	2.00	0.00		CHARGE			61					
MR-2	1.60	0.00		CHARGE			61					

Account Number: 40832 / Name: GARDNER INVESTMENTS LLC / Billing Address: PO BOX 958 Kalispell, MT 59903  
 Location Code: 8000-1111 / Service Address: 201 United Dr, Kalispell, MT 59901  
 Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details	
	SW-0	21.10	0.00		CHARGE	08.01.2014	10.01.2014	61	152	152	0	0	
	IR-0	109.55	0.00		CHARGE	08.01.2014	10.01.2014	61	800	861	61	0	
	WA-0	18.75	0.00		CHARGE	08.01.2014	10.01.2014	61	152	152	0	0	

Payment 08.25.2014 08.25.2014 157.65 0.00 0.00 0.00 0.00 0.00 Cash

SVC	Amount	Tax	Bill Date	Due Date	Type
SW-0	21.10	0.00	08.13.2014	09.12.2014	CHARGE
WA-0	18.75	0.00	08.13.2014	09.12.2014	CHARGE
IR-0	114.20	0.00	08.13.2014	09.12.2014	CHARGE
MR-0	2.00	0.00	08.13.2014	09.12.2014	CHARGE
MR-2	1.60	0.00	08.13.2014	09.12.2014	CHARGE

Account Number: 40832 / Name: GARDNER INVESTMENTS LLC / Billing Address: PO BOX 958 Kalispell, MT 59903

Location Code: 8000-1111 / Service Address: 201 United Dr, Kalispell, MT 59901

Transactions From: 08.18.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
IR		112	233.60	19	38.93	0	0	6
MR		0	12.00	0	2.00	0	0	6
MR	2	0	9.60	0	1.60	0	0	6
SW		10	186.40	2	31.07	0	0	6
WA		10	142.90	2	23.82	0	0	6
Payments:		542						

Account Number: 36891 / Name: GARDNER INVSTMNTS LLC / Billing Address: PO BX 958 Kalispell, MT 59903  
Location Code: 8000-1130 / Service Address: 237 United Dr, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details	
Payment	08.17.2015				08.17.2015	103.01	0.00	0.00	0.00	0.00	69.53-	Cash	
	SVC	Amount	Tax	Bill Date	Due Date	Type							
	SW-0	16.88	0.00	08.10.2015	09.11.2015	CHARGE							
	WA-0	15.00	0.00	08.10.2015	09.11.2015	CHARGE							
	MR-0	1.60	0.00	08.10.2015	09.11.2015	CHARGE							
	SW-0	41.72	0.00			UNAPPL							
	WA-0	27.81	0.00			UNAPPL							
Cycle Bill	08.10.2015	06.03.2015	08.02.2015	09.11.2015	08.10.2015	33.48	0.00	0.00	0.00	33.48	33.48	Run: 8001 / No: 5	
	SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
	MR-0	1.60	0.00		CHARGE			61					
	SW-0	16.88	0.00		CHARGE	06.01.2015	08.04.2015	64	203	203	0	0	
	WA-0	15.00	0.00		CHARGE	06.01.2015	08.04.2015	64	203	203	0	0	
Payment	06.29.2015				06.29.2015	103.01	0.00	0.00	0.00	0.00	0.00	Cash	
	SVC	Amount	Tax	Bill Date	Due Date	Type							
	SW-0	40.78	0.00	04.21.2015	05.15.2015	CHARGE							
	WA-0	27.15	0.00	04.21.2015	05.15.2015	CHARGE							
	MR-0	1.60	0.00	04.21.2015	05.15.2015	CHARGE							
	SW-0	16.88	0.00	06.19.2015	07.17.2015	CHARGE							
	WA-0	15.00	0.00	06.19.2015	07.17.2015	CHARGE							
	MR-0	1.60	0.00	06.19.2015	07.17.2015	CHARGE							
Cycle Bill	06.19.2015	04.03.2015	06.02.2015	07.17.2015	06.19.2015	33.48	0.00	0.00	0.00	33.48	103.01	Run: 7868 / No: 5	
	SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
	MR-0	1.60	0.00		CHARGE			61					
	SW-0	16.88	0.00		CHARGE	04.01.2015	06.01.2015	61	203	203	0	0	
	WA-0	15.00	0.00		CHARGE	04.01.2015	06.01.2015	61	203	203	0	0	
Cycle Bill	04.21.2015	02.03.2015	04.02.2015	05.15.2015	04.21.2015	69.53	0.00	0.00	0.00	69.53	69.53	Run: 7710 / No: 5	
	SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
	MR-0	1.60	0.00		CHARGE			59					
	SW-0	40.78	0.00		CHARGE	02.02.2015	04.01.2015	58	198	203	5	0	
	WA-0	27.15	0.00		CHARGE	02.02.2015	04.01.2015	58	198	203	5	0	
Apply Credit	03.02.2015				03.02.2015	0.00	0.00	0.00	0.00	0.00	0.00		
	SVC	Amount	Tax	Bill Date	Due Date	Type							
	WA-0	0.25	0.00	02.20.2015	03.13.2015	CHARGE							

Account Number: 36891 / Name: GARDNER INVSTMNTS LLC / Billing Address: PO BX 958 Kalispell, MT 59903  
Location Code: 8000-1130 / Service Address: 237 United Dr, Kalispell, MT 59901  
Transactions From: 08.18.2014 To: 08.31.2015

Transaction Type	Posted Date	Bill From Date	Bill To Date	Due Date	Creation Date	Tran Amount	Tax Amount	Penalty Amount	Penalty Forgiven	Total	Account Balance	Details
MR-0	1.60	0.00	02.20.2015	03.13.2015	CHARGE							
SW-0	1.85-	0.00			UNAPPL							
Cycle Bill	02.20.2015	12.03.2014	02.02.2015	03.13.2015	02.20.2015	55.11	0.00	0.00	0.00	55.11	0.00	Run: 7595 / No: 5
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			62					
SW-0	31.22	0.00		CHARGE	12.03.2014	02.02.2015	61	195	198	3	0	
WA-0	22.29	0.00		CHARGE	12.03.2014	02.02.2015	61	195	198	3	0	
Payment	01.22.2015				01.22.2015	55.11	0.00	0.00	0.00	0.00	55.11-	Cash
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	33.07	0.00			UNAPPL							
WA-0	22.04	0.00			UNAPPL							
Payment	01.12.2015				01.12.2015	62.32	0.00	0.00	0.00	0.00	0.00	Cash
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	36.00	0.00	12.10.2014	01.09.2015	CHARGE							
WA-0	24.72	0.00	12.10.2014	01.09.2015	CHARGE							
MR-0	1.60	0.00	12.10.2014	01.09.2015	CHARGE							
Cycle Bill	12.10.2014	10.03.2014	12.02.2014	01.09.2015	12.10.2014	62.32	0.00	0.00	0.00	62.32	62.32	Run: 7413 / No: 5
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	36.00	0.00		CHARGE	10.01.2014	12.03.2014	63	191	195	4	0	
WA-0	24.72	0.00		CHARGE	10.01.2014	12.03.2014	63	191	195	4	0	
Payment	11.18.2014				11.18.2014	62.32	0.00	0.00	0.00	0.00	0.00	Cash
SVC	Amount	Tax	Bill Date	Due Date	Type							
SW-0	36.00	0.00	10.15.2014	11.14.2014	CHARGE							
WA-0	24.72	0.00	10.15.2014	11.14.2014	CHARGE							
MR-0	1.60	0.00	10.15.2014	11.14.2014	CHARGE							
Cycle Bill	10.15.2014	08.03.2014	10.02.2014	11.14.2014	10.15.2014	62.32	0.00	0.00	0.00	62.32	62.32	Run: 7261 / No: 5
SVC	Amount	Tax Amount	Tax Table	Type	Read From	Read To	Days	Prev Read	Curr Read	Cons'n	Demand	Description
MR-0	1.60	0.00		CHARGE			61					
SW-0	36.00	0.00		CHARGE	08.01.2014	10.01.2014	61	187	191	4	0	
WA-0	24.72	0.00		CHARGE	08.01.2014	10.01.2014	61	187	191	4	0	



Account Number: 36891 / Name: GARDNER INVSTMNTS LLC / Billing Address: PO BX 958 Kalispell, MT 59903

Location Code: 8000-1130 / Service Address: 237 United Dr, Kalispell, MT 59901

Transactions From: 08.18.2014 To: 08.31.2015

Metered Services Averages/Totals

SVC Code	SVC No	Total Usage	Total Charges	Average Usage	Average Charge	Total Demand	Average Demand	No Of Bills
MR		0	9.60	0	1.60	0	0	6
SW		16	177.76	3	29.63	0	0	6
WA		16	128.88	3	21.48	0	0	6

Payments: 477

*Appendix B: Kalispell Fire Chief Correspondence*

## Andy Evensen

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**From:** Dave Dedman <ddedman@kalispell.com>  
**Sent:** Wednesday, September 02, 2015 9:53 AM  
**To:** Andy Evensen  
**Subject:** RE: Kalispell Fire Demand

Not to my knowledge.

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**From:** Andy Evensen [mailto:[andy.evensen@kljeng.com](mailto:andy.evensen@kljeng.com)]  
**Sent:** Wednesday, September 02, 2015 9:52 AM  
**To:** Dave Dedman <ddedman@kalispell.com>  
**Subject:** RE: Kalispell Fire Demand

Thank you for the response, Dave. This is not for a specific development but the South Kalispell area in general. I understand that the fire flows will need to be evaluated on an individual basis once a specific development is planned for the area. We want to provide the City with a water main sizing that can meet the anticipated flows of the area. Granted, since we don't have specifics on building size and type, this is difficult to do. Do you happen to know if there are existing mixed-us/commercial/industrial areas within Kalispell that require fire flows in excess of 4000 gpm?

Andy Evensen PE  
KLJ - Kalispell  
406-755-2763

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**From:** Dave Dedman [mailto:[ddedman@kalispell.com](mailto:ddedman@kalispell.com)]  
**Sent:** Wednesday, September 02, 2015 9:36 AM  
**To:** Andy Evensen  
**Subject:** RE: Kalispell Fire Demand

Andy, is this for a development? The 1500 GPM residential and 4000 GPM for commercial is a safe estimate. I have seen where 1500 GPM may not meet the need for some residential homes due to the size of the structure. We base our fire flows need using the IFC 2012 appendix B which list the minimum fire flows and durations for type and size of building. If it is a mixed use area then the higher fire flow needs will be required for the areas in question. I would need more information to feel comfortable answering any additional questions.

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**From:** Cec Lee  
**Sent:** Tuesday, September 01, 2015 12:43 PM  
**To:** Dave Dedman <[ddedman@kalispell.com](mailto:ddedman@kalispell.com)>  
**Subject:** FW: Kalispell Fire Demand

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**From:** Andy Evensen [mailto:[andy.evensen@kljeng.com](mailto:andy.evensen@kljeng.com)]  
**Sent:** Tuesday, September 01, 2015 12:39 PM  
**Subject:** Kalispell Fire Demand

Good Afternoon Chief Dedman,

I am working with the Kalispell Public Works Department to plan for and size water and sewer infrastructure in the South Kalispell area. Can you provide any guidance for what fire flows should be provided in residential,

commercial, industrial and mixed-use areas in Kalispell? I'm assuming 1500 gpm for residential and 4000 gpm for the other areas but wanted to make sure these are consistent with the Fire Department's requirements.

Thanks,

Andy Evensen PE



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