City of Colfax

Sewer Evaluation and Capacity Assurance Plan

July 28, 2010

Prepared By:
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CITY OF COLFAX

RESOLUTION NO. 37-2010

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF COLFAX CERTIFYING THE SEWER SYSTEM MANAGEMENT PLAN

NOW THEREFORE, BE IT RESOLVED AND ORDERED that the City Council of the City of Colfax, the governing agency for the City of Colfax Wastewater Collection System, under the laws of the State of California, do hereby certify that the Sewer System Management Plan, and subparts thereof, are in compliance with the general WDRs within the time frames identified in the time schedule provided in subsection D.15 of the State Water Resources Control Board Order No. 2006-0003-DWQ titled Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, and further authorizes the Community Services Director or his designee to submit an online certification document to the State Water Resources Control Board..

PASSED AND ADOPTED, this 28th day of July, 2010, by the City Council of the City of Colfax, by the following roll call vote:

AYES: Council members Harvey, Roberts, Delfino and Mayor Alpine

NOES:

ABSENT: Barkle

Joshua Alpine, Mayor

ATTEST:

Karen Pierce, City Clerk

PONTICELLO ENTERPRISES
CONSULTING ENGINEERS, INC.

July 22, 2010

Bruce Kranz
City Manager
City of Colfax
33 S. Main Street
Colfax, CA 95713

Subject: City of Colfax Sewer Evaluation and Capacity Assurance Plan Report

Dear Mr. Kranz:

Ponticello Enterprises has prepared this SECAP Report for the City of Colfax as authorized by City Council through Resolution No. 05-2010 on February 10, 2010. The report presents an analysis of the capacity of the wastewater collection system through peak wet weather flow modeling methods. In this report we develop a design storm, identify locations of predicted sewer overflows and surcharging, and provide methodologies to reduce the likelihood of sewer overflows.

The key recommendation to reduce the likelihood of overflows is to identify and eliminate, to the greatest extent possible, the amount of inflow and infiltration (I&I) entering the system during rainfall events. EPA guidelines establish a maximum I&I of 275 gallons per capita per day (gpcd). During the design storm, the I&I portion of the peak flow is approximately 1,200 gpcd, more than four times the EPA maximum recommendation. Capital improvement programs aimed at reducing I&I to 275 gpcd will provide the City sufficient capacity for growth while striving to reduce the costs needed to upgrade and maintain the collection system and the wastewater treatment plant.

Going forward, the model developed for the sewer system analysis will serve as an important tool in testing the effects of I&I reduction both in the system and at the wastewater treatment plant.

We greatly appreciate the support received from City staff and Council during the preparation of this report.

Sincerely,

Jim Fletter, PE
Project Engineer

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CHAPTER 1. INTRODUCTION

The City of Colfax owns, operates, and maintains a wastewater collection system (WCS) and a wastewater treatment plant (WWTP) to which the WCS flows. The WCS consists of approximately 50,000 linear feet of sewer mains, two hundred manholes, four sewer lift stations and four force mains. The system services 733 residences, businesses, and public facilities.

The California State Water Resource Control Board, through the Statewide General Waste Discharge Requirements for Sanitary Sewer Systems Order No. 2006-003-DWQ, requires the City to prepare a Sewer System Management Plan (SSMP). Element 8 of the SSMP requires a Sewer Evaluation and Capacity Assurance Plan (SECAP) to be prepared with a Capital Improvement Plan (CIP) that provides hydraulic capacity of key sanitary sewer system elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event.

In order to assess the capacity of the system during dry and wet weather flows, the City developed a hydraulic model of the WCS. This report contains the methodology and results of the model as well recommended capital improvements to resolve any system deficiencies identified as explained below.

1.1. PURPOSE

The purpose of this report is to explain the methodologies used to develop the City's sewer model, identify deficiencies in the system from the model results, identify capital improvement projects that will most effectively resolve the deficiencies, identify potential system deficiencies that may occur as the City growth over the next twenty years, and identify system enhancement that will the future deficiencies.

1.2. PREVIOUS STUDIES

There have been numerous studies conducted over the past four decades. Most of the studies evaluated the effects of storm water inflow and infiltration on the system. The studies known to have been conducted are listed below. Most of the information was extracted from recent reports that site those studies[1] and the actual studies are no longer available.

	Study Title & Description	Avail.
1.	Infiltration/Inflow Study and Sewer System Evaluation, (Atteberry & Associates, 1975) – This study was referenced in the June 1992, Charpier Martin & Assoc. report but we were unable to obtain a copy.	NO
2.	Wastewater Flow Monitoring, (Resources Engineering & Management, April 1981) - This study was referenced in the June 1992, Chapler Martin & Assoc. report, but we were unable to obtain a copy.	NO
3.	Sewer System Evaluation Survey for City of Colfax, (Falconi & Associates, June 1981) - This study was referenced in the June 1992, Charpier Martin & Assoc. report but we were unable to obtain a copy.	NO

[1] Sewer Collection System Inflow & Infiltration Report, Ponticello Enterprises, February 2010

4.	Infiltration and Inflow Analysis, (Chapler Martin & Associates, June 1992) – This study summarized the results of previous studies and reviewed available WWTP influent flow data, and Placer County Water Agency water billing records to come to its recommendations, which included purchase of flow measuring equipment and winter flow monitoring. Report was not located.	NO
5.	1993 Sanitary Sewer Improvement Projects, Preliminary Engineering Report, (Charpier Martin & Associates, February 1993) – In this study of the City's sewer collection system it was determined that repairs were necessary to correct the inflow and infiltration into the system. A prioritized list of corrective projects was developed with cost estimates; the total estimated cost of these projects was $628,000, in 1993 dollars. Report was not located.	NO
8.	2008 CCTV and Smoke Testing (Fletcher's Plumbing & Contracting, 2008) – The City conducted a comprehensive video survey and smoke testing of the collection system. Video records of CCTV were located but a CCTV and smoke testing report was not located.	YES/ NO
9.	Pump Stations 4, 5, and 6 Predesign Report (Eco:Logic Consulting Engineers, April 2009) – This report provides engineering recommendations and cost estimates to rehabilitate and eliminated sewer pump stations.	YES
10.	2008/09 Infiltration and Inflow Study-Interim Results (Eco:Logic Consulting Engineers, July 2009) – This study evaluated the condition of the sewer mains, performed flow monitoring, and analyzed peaking factors as correlated to precipitation events.	YES
11.	Basis of Design Report (Eco:Logic Consulting Engineers, July 2009) – This report provides engineering recommendations and cost estimates for rehabilitation and elimination of sewer pump station, and rehabilitation of sewer mains.	YES
10.	2010 CCTV (Nor-Cal Pipeline Services, June 2010) – The City conducted a comprehensive video survey of the collection system of those segments of gravity sewer pipe that were not complete during the 2008 CCTV inspection.	YES

1.3. SYSTEM LAYOUT

The wastewater collection system consists of approximately 50,000 linear feet of sewer main ranging is size from 4 to 15-inches. The material is generally vitrified clay pipe and the oldest sections are in the downtown area having been installed in the early 1900s. There are approximately 200 manholes, six pump stations with force mains, and 734 sewer connections. Wastewater is conducted to the City's wastewater treatment plant located approximately 2 miles southeast of downtown Colfax. An illustrative map of the system is provided in Figure 1-1.

1.3.1. 2010 Pump Station Elimination & Rehabilitation Project

In 2010, the City began a construction project to rehabilitate four of its six pump stations and eliminate the other two. The sewer model was created during the construction so the system was modeled based upon the final reconfiguration of sewer mains and pump stations. The system layout shows the location of the four working pump stations in green and the pump stations being demolished in red.

1.4. MODELING METHODOLOGY

1.4.1. Sanitary Sewer Flows

For modeling purposes, sanitary sewer flows represent the flows entering the WCS from residences, businesses, government buildings, schools, churches, etc. The City maintains a database that catalogues each sewer connection by Equivalent Housing Unit (EDU). One EDU is defined as the average wastewater discharge from a single-family dwelling. The City Municipal Code (CMC) Chapter 13, Section 13.08.030 defines one EDU equal to a volume of two hundred (200) gallons per day. The amount of EDU being discharge for each sewer user is determined utilizing "EDU Basis Table" Appendix A and calculations methods identified in CMC Chapter 13, Article IV. Appendix A of this report contains the City's EDU assessment for each sewer connection.

For example, a restaurant with an EDU of 8.5 will have an average dry weather flow (ADWF) of 1,700 gallons per day (8.5 x 200 gpd). ADWF is defined as the average sanitary discharge into the system and excludes storm related inflow and infiltration.

1.4.2. Inflow & Infiltration (I&I)

Infiltration is typically groundwater that enters the WCS from underground sources through brakes, cracked, defective joints in pipes or manholes. Infiltration can come from sewer laterals through defective connection to the main, joints, cracks, etc.

Inflow is the water that is directly enters the system from above ground sources such as openings in manholes lids, uncapped cleanouts, illegal storm water connections such as foundation drains, landscape drains, sump pumps, roof downspouts that connect directly to sewer laterals.

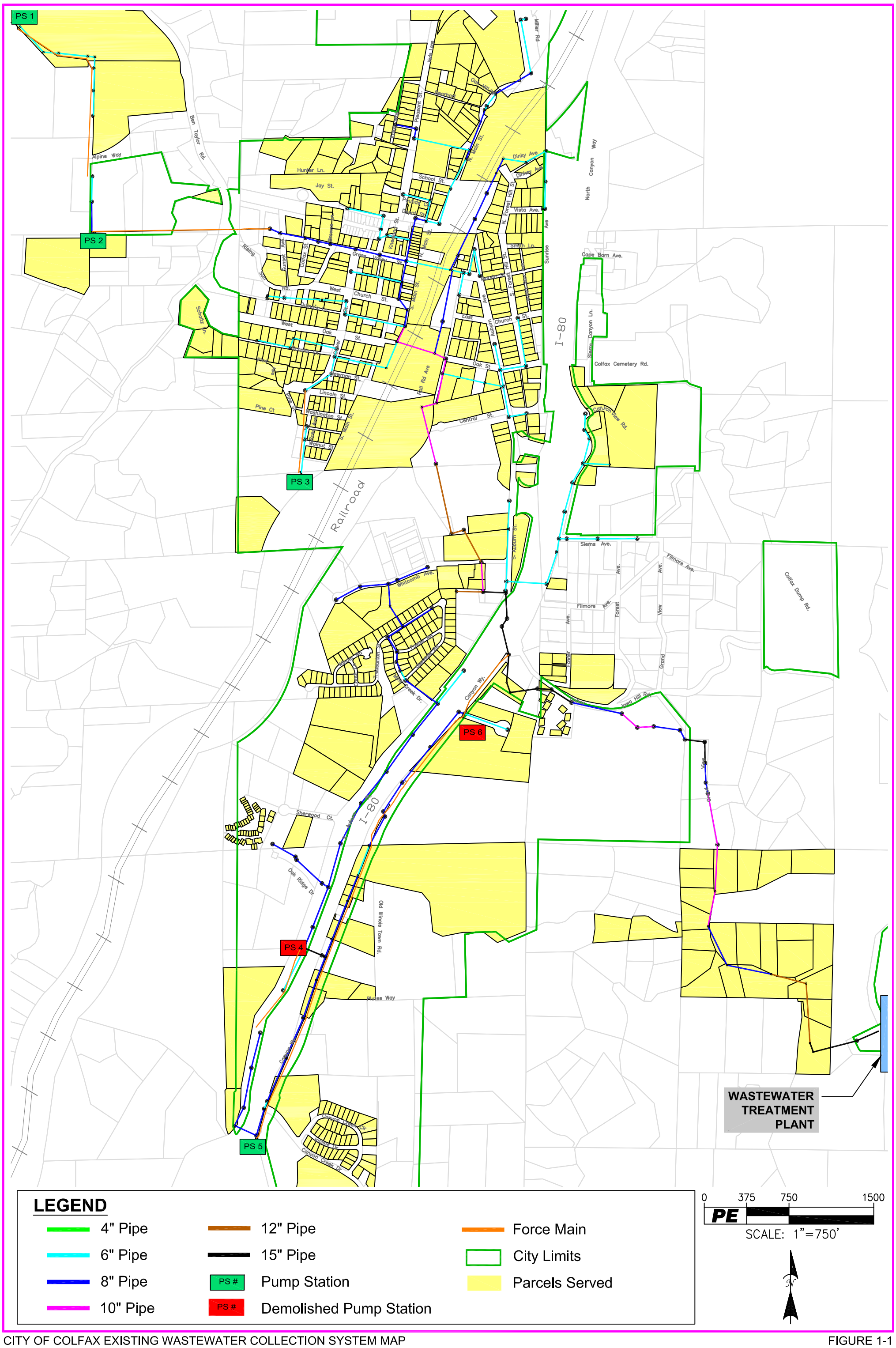
The hydrologic impact of rain-dependant I&I (RDII) was analyzed by Nexgen Utility Management. Nexgen developed hydrographs of the RDII influence. The hydrographs were then applied to the sewer model by dividing up the resulting time dependent flow to each manhole in the system.

1.4.3. Storm Recurrence Interval

Nexgen collected inflow data from the WWTP and flow monitoring data at four sites in the City. Based upon their analysis, it was determined that hydrographs developed from the WWTP inflow data would be sufficient to define the RDII influence throughout the system. Nexgen developed two design storm hydrographs based on a 10-year, 24-hour storm event and a 10-year, 36-hour storm event.

The 10-year, 36-hour RDII hydrograph was utilized for the sewer model based upon the recommendations of Nexgen. It should be noted that there was a 5% increase in peak flow rate modeled at the WWTP for the 36-hour hydrograph versus the 24-hour hydrograph.

Nexgen's RDII analysis is provided in Appendix B of this report.



CITY OF COLFAX EXISTING WASTEWATER COLLECTION SYSTEM MAP

FIGURE 1-1

CHAPTER 2. SYSTEM MODEL – EXISTING WASTEWATER COLLECTION SYSTEM

2.1. SOFTWARE AND KEY MODELING FEATURES

2.1.1. Modeling Software

The WCS was modeled utilizing SewerCAD version 8i from Bentley Systems, Inc. This software is specifically designed for planning, designing, analyzing, and optimizing wastewater collection systems. Key features utilized in the software for model analysis included static and dynamic flow characteristics, 24-hour flow variability, storm water inflow and infiltration hydrographs, and pump station dynamics.

While the modeling software was used to create a close approximation to the real conditions experienced by the WCS, all models are estimations and do not fully recreate field conditions. The analysis and results of a 10 year, 24-hour storm events was used to calculate the resulting system performance. In the future, when additional data in available, it can be incorporated into the sewer model to more accurately depict real world observations.

2.1.2. Sewer Model Construction

The City maintains a GIS database with the horizontal and vertical geometry of the sewer system pipelines and manholes. The GIS database was used to build a model of the majority of the system to the WWTP. The model was constructed with the intent to characterize peak wet weather flow throughout the system by including the calculated and observed effects of peak daily dry weather flow, I&I during 10-year, 36-hour storm events, and pump station patterns.

The data from the flow meter at the WWTP was used to calibrate model. Once the model was calibrated, five scenarios were developed as explained in Chapter XX. This report provides the finding and recommendations based upon the final computed results of each scenario.

2.1.3. Dynamic/Extended Period Simulations

The system was simulated utilizing extended period or dynamic computational methods. As further explained in the following sections, the sanitary flow from each connected property was varied over time based upon the patterns observed from the inflow data at the WWTP. The RDII hydrograph was applied in the system creating a manhole hydrograph based upon the primary RDII hydrogaph and inputting the manhole hydrograph into each manhole.

For clarification, the RDII hydrograph has flow rates for each of the 36 hour increments of the storm as illustrated in the Appendix B I&I analysis. There are 197 manholes within the model. The manhole hydrograph was created by dividing the 36 RDII hydrograph flow rates by 196 and applying the reduced hydrograph to 197 manholes. It is important to note that the resulting flow rates and time of concentration identified in the Nexgen analysis closely matched that calculated by the model as shown in Chapter 2.4.2.

2.1.4. Pump Stations

The pump stations were configured in the model according to records made available by the City, construction plans prepared in October 2009 by ECO:LOGIC Engineering, and measurements taken in the field. There are currently six pump stations in service; Pump Stations No. 1 through No. 6. According to construction plans prepared by ECO:LOGIC, Pump Station No. 4 and No. 6 are to be demolished by the end of the year (2010). The flows to Pump Station No. 4 are being diverted to the sewer basin operated with Pump Station No. 5. Pump Station No. 6 receives minor local area gravity flows and the pumped flow from Pump Station No. 5. Gravity flows to Pump Station No. 6 are being diverted to Pump Station No. 5 and Pump Station No. 5 is being reconfigured to pump its flows to the same manhole that Pump Station No. 6 is currently pumping into.

The performance of Pump Stations No. 1 and No. 2 is not being modified with the new construction. Pump Station No. 3 is to be reconstructed.

The performance characteristics of all of the pump stations were simulated in the model based upon the above information, manufacturer pump curves, wet well dimensions, existing pump on/off level elevations, and force main invert elevations. A summary of the performance characteristics of the four pump station used in the model are provided is Table 2-1 below.

Table 2-1: Performance Characteristics of Sewer Pump Stations

Pump Station	Type	Number of Pumps			Rated Capacity, each (gpm)[(a)]
		Total	Duty	Standby	
PS1 – Colfax HS	Submersible	2	1	1	240
PS2 – Pinecroft	Dry Pit	4 (2 in series)	2	2	300
PS3 – Orchard	Submersible	1	1	0	136
PS5 – Canyon Way	Dry Pit	2	1	1	370

(a) Rated capacity is for each pump expressed in gallons per minute (gpm)

2.2. ASSUMPTIONS

During construction of the model, several assumptions were developed about the system based upon observations, discussion with operations personnel, and the experience of the engineers. These assumptions are explained as follows:

2.2.1. Sanitary Sewer Flow

As explained in Chapter 2.4 (Modeling Methodology), daily average sanitary flows from each parcel was applied from the City's billing records. The overall average flow resulting from input flow and the model calculation of flows to the WWTP was compared with the actual flow measurements at the WWTP during dry weather periods. Dry weather period were found to occur most consistently between July and September of each year. This finding is consistent with the City's WWTP NPDES permit definition of dry weather months as occurring between July and September (NPDES Order No. R5-2007-0130 VII.C).

The average daily dry weather flow (ADWF) at the WWTP between 2005 and 2009 ranged from 0.14 and 0.16 MGD, as shown below in Table 2-2. The sewer model predicts an ADWF of 0.15 MGD. This result confirmed that the methodology to utilize the billing records average flow was sound and did not require a correction factor.

Table 2-2: Average Dry Weather Flow Calculation

Calendar Year	period July 1 through Sept 30			rainfall
	MG	DAYS	MGD	inches
2005	12.89	92	0.14	0.0
2006	14.84	92	0.16	0.0
2007	15.18	92	0.16	1.2
2008	13.39	92	0.15	0.0
2009	14.13	92	0.15	3.4
AVERAGE			0.15	

2.2.2. Peak Daily Dry Weather Flow (PDWF)

PDWF was estimated by analyzing the average hourly flow pattern between May 29 and June 4, 2009 as explained in Chapter 2.4.1 of this report and then increasing or decreasing the average by its standard deviation. While this method does not identify the highest dry weather period over an extended period of time, it does provide a pattern or time of day that the maximum flow is likely to occur. PDWF is almost insignificant relative the peak wet weather flow due to the affects of I&I. Because of this, it is assumed that researching and applying periods of higher PDWF would not affect the model results.

2.2.3. Friction Factors

The majority of the gravity system was constructed with 6 & 8-inch vitrified clay pipe (VCP). Newer construction and rehabilitation construction generally installed 8-inch polyvinyl pipe (PVC). While the Manning friction factor of PVC can be as low as 0.10, the City's design criteria for all new pipe material is 0.13. Therefore, the Manning friction factor applied to all gravity piping is 0.13.

The four force mains conveying pump station water were constructed with PVC. The Hazen-Williams friction factor was assumed to be 130.

2.2.4. Pipes & Manhole Conditions

The model assumes that the pipes and manholes are in good condition and free from debris or constrictions. Therefore, the modeling results provide capacity of a system in good condition. Over the past several years, the City has conducted CCTV inspection of the sewer mains. The information from these investigations will be used along with the results of this capacity analysis to develop capital improvement programs.

2.2.5. Slope between inaccessible manholes

During comprehensive surveys of the system, there were a few manholes that were inaccessible. In these cases, the manhole rims and pipe inverts were either estimated by averaging the elevation between surveyed manholes upstream and downstream of the in accessible manhole, or set through as-built design plans.

2.2.6. Peak Wet Weather Flow Criteria

Peak wet weather flow (PWWF) was modeled by dynamically combining the diurnal sanitary flows, the 10-year, 36-hour design storm hydrograph, and pump station influences.

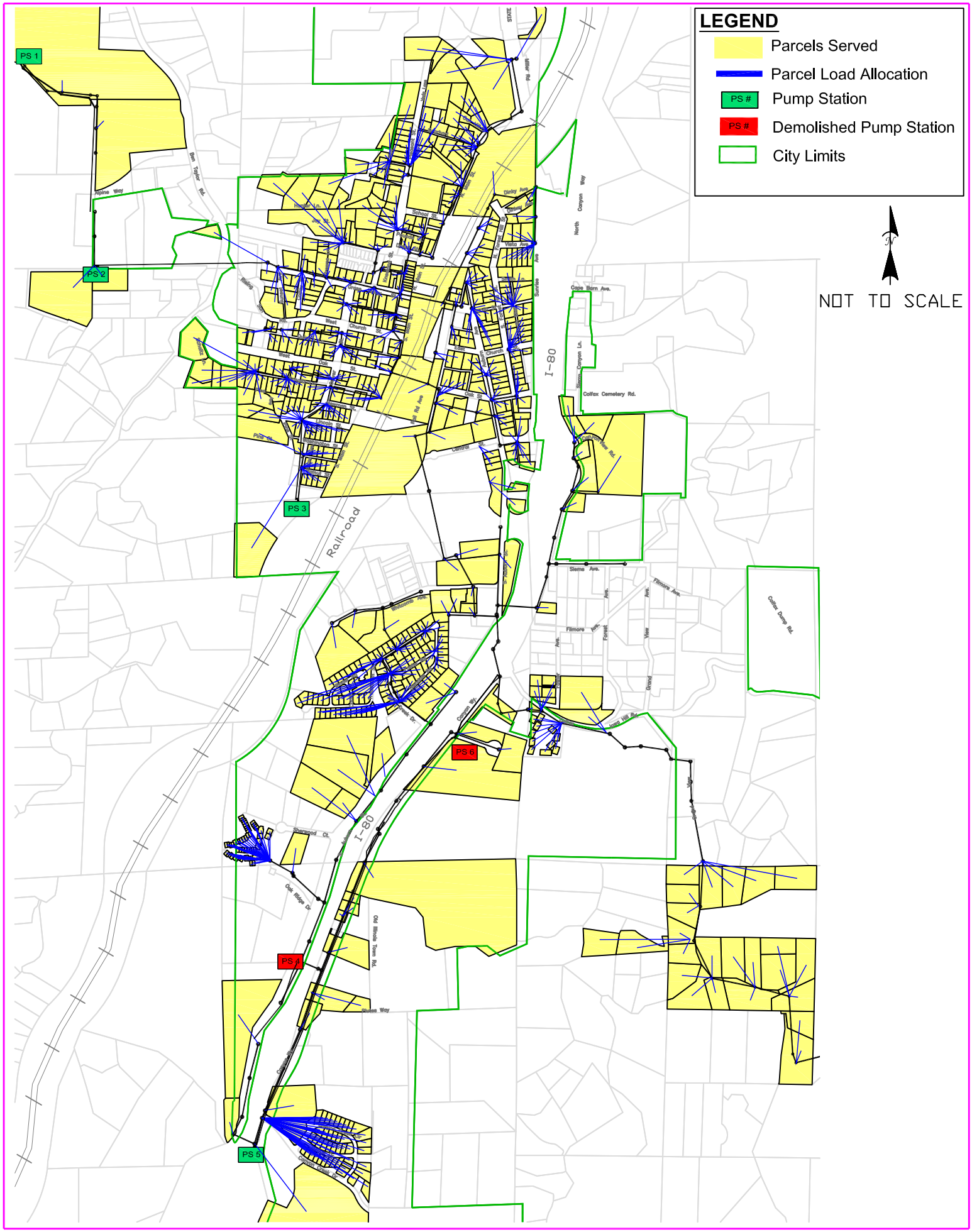
2.3. SANITARY SEWER FLOWS

2.3.1. User discharges

As described in Chapter 3.2.1, the sanitary sewer inflow from residential, businesses, and other properties was modeled based upon the EDU factors established by the City. The user discharges were applied in the following manner.

1. The County parcel maps were imported into the model.
2. The total EDU for each parcel was determined based on the City EDU calculations. For example, if one parcel consisted of EDU from a business and a residence then the total EDU for the parcel was the summation of the two users.
3. An inflow manhole for each parcel served by the City was identified in the model and the total EDU from each parcel was totaled to determine the total about of EDU flowing into each manhole.

Figure 2-1, illustrates the parcels served by the City and which manholes the parcel inflow were applied. The model was then run to determine the average daily discharge to the WWTP and the figure was compared to the average daily inflow measured at the WWTP during dry weather periods (i.e. July through September). The model calculated the ADWF to be 0.15 MGD. The ADWF measured at the WWTP between 2005 and 2009 ranged from 0.14 to 0.16 MDG. Therefore no calibration of the ADWF was required.



CITY OF COLFAX PARCEL SEWER LOADING DIAGRAM

FIGURE 2-1

2.3.2. Diurnal flow pattern

The wastewater flow through the system varies hour by hour as sewer usage patterns change from morning to evening. These patterns are clearly identifiable at the WWTP. The 24 hour diurnal factor chart shown in the following Figure 2-2 was developed based upon the hourly inflow recorded at the plant. At a value of 1, the flow equals average sanitary sewer flows. Values above or below 1 represent more or less flow and the multiplication factor is multiplied by ADWF to determine the estimated flow during any 24-hour period.

To ensure that the peak dry weather flow (PDWF) is estimated at the extreme end of the spectrum, the hourly standard deviation for the diurnal pattern was calculated and added to the hourly average for every hourly flow greater than zero and subtracted from the hourly average for every hourly flow less then zero. This average diurnal flow pattern and the extreme diurnal flow patter are illustrated in the aforementioned Figure 2-2.

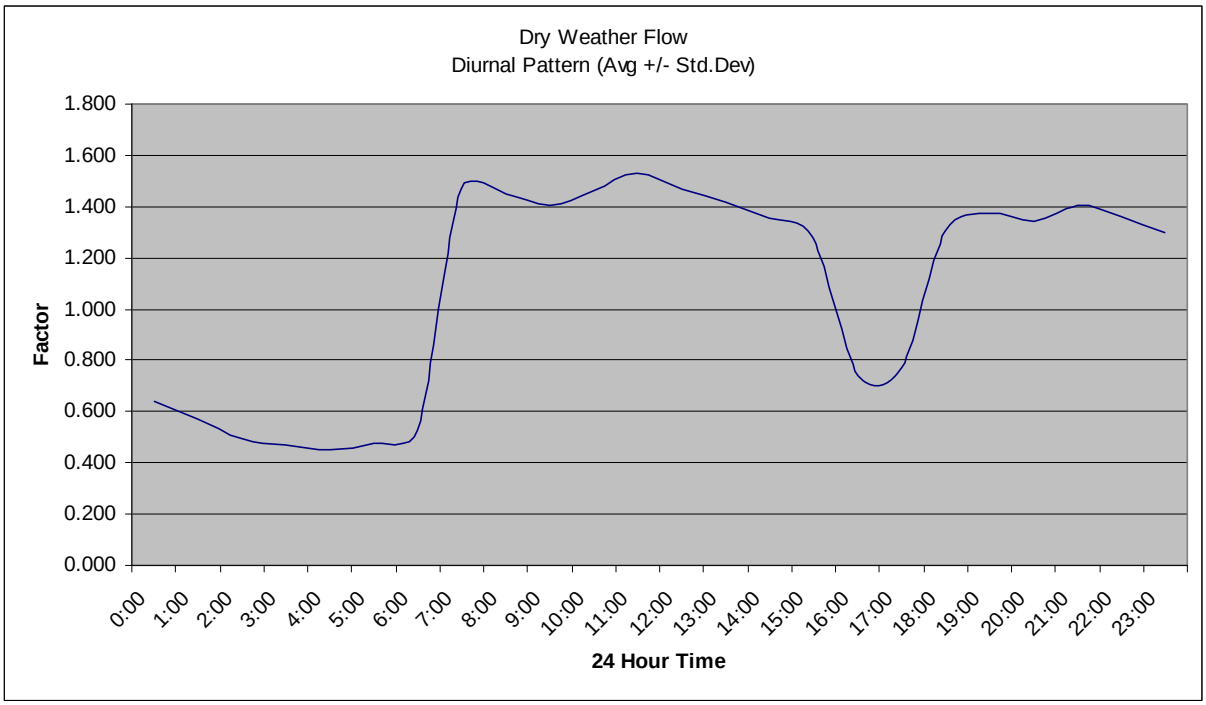


Figure 2-2: Daily Diurnal Sanitary Flow Pattern

2.4. INFLOW & INFILTRATION

2.4.1. WWTP Inflow Record Data

The City of Colfax maintains a Parshall Flume at the headworks to the WWTP. The instantaneous flow rates are calculated with a Milltronics level sensor and the records are stored electronically. For comparison of flow monitoring data collected at various locations in the City between February and May 2009, the flow data at the WWTP was analyzed between January and May 2009. The WWTP flow data between this time range was utilized to develop the RDII

hydrographs as explained in the RDII Technical Memorandum included in Appendix B of this report.

2.4.2. System Calibration

Once the PDWF and the 10-year, 36-hour I&I was identified and applied to the model to predict PWWF, the model results were compared to the PWWF experienced by the WWTP. In all cases, the modeled PWWF closely matched the PWWF measured at the WWTP. Therefore, detailed calibration of the model was unnecessary.

Figure 2-3 compares the modeled 10-year, 36-hour storm event, the RDII + ADWF develop in Appendix B, and the measured PWWF at the WWTP during an actual storm event between March 2, 2009 at 6:00 PM and March 4, 2009 at 5:00 PM. The actual storm event was smaller than a 10-year recurrence interval so a multiplier of 1.35 was applied to the flows for ease of comparison. The figure illustrates that the model reacts similarly to both the RDII analysis and the real storm event recorded at the WWTP. Therefore it was determined further calibration of the existing system PWWF scenario was unnecessary.

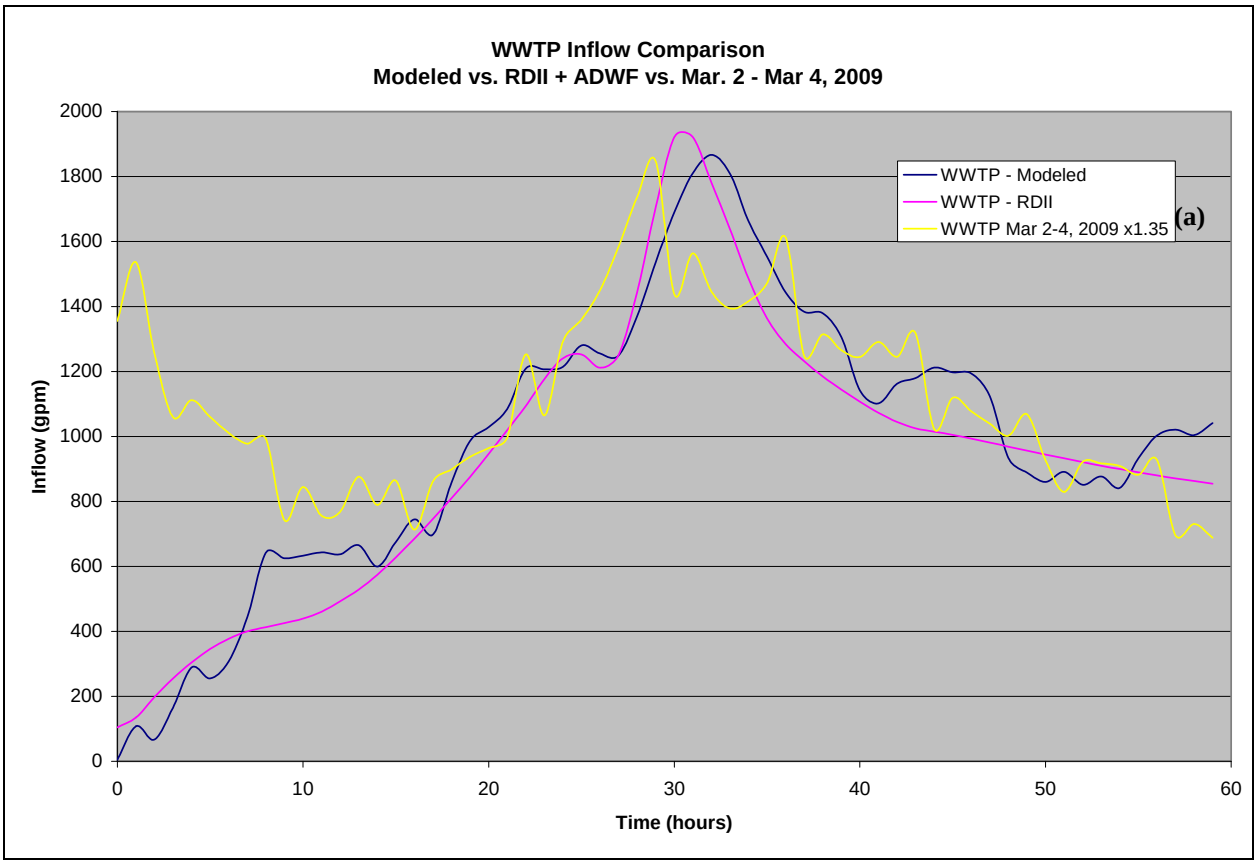


Figure 2-3: WWTP inflow during 10-year, 36-hour design storm event.
(a) The 1.35 multiplier was applied to the WWTP March flow data to increase flows and approximate the 10-year, 36-hour design storm, thereby visually correlating system response and modeled response.

2.4.3. System Deficiency Criteria

Three criteria were utilized to identify deficiencies within the WCS conveyance system. A deficiency exists when 1) the water surface elevation at each manhole is within 3 feet or less from rim elevation; and 2) Any manhole that is surcharging (water level at or above the top of pipe) when there is less than 3 feet of cover over the pipes at the manhole.

The third deficiency involves the pump stations. If a pump station's firm capacity is less than the design inflow entering the pump station then station is considered deficient. Pump station firm capacity is defined as the capacity of the pump station with the largest pump out of service.

All pipes, manholes, and pump stations that are deficient due to the above criteria are identified in the Model Results Chapter 4 of this report.

CHAPTER 3. MODELING – 20 YEAR GROWTH PROJECTION

3.1. PURPOSE & METHODOLOGY

As the population of Colfax grows, the demand on the infrastructure in place today will increase. By estimating the demand increase after twenty years and identifying the deficiencies, the City can plan accordingly. The three step methodology was used in this process

1. Model the demand on existing system after 20 years of projected growth utilizing the City of Colfax 2020 General Plan.
2. Identify pipe and pump station deficiencies resulting from the extra demand.
3. Develop Capital Improvement Programs to accommodate the growth.

3.2. METHODOLOGY

It is assumed that any growth that expands beyond the existing system will be funded solely by private development funds and therefore it is disregarded for the purpose of this report. Therefore the methodology used to determine the demand and resulting recommended improvements to the system after 20 year growth is as follows:

1. Identify 20 year population based upon the City of Colfax 2020 General Plan
2. Increase flows in existing system in proportion to growth
3. Identify capacity deficiencies that occur as a result of the sanitary flow increases and some I&I increases.
4. Develop capital improvement programs that either increase the capacity of the system at those deficiencies, decrease the affects of I&I (decrease demand) upstream of those deficiencies, or a combination of both.

3.3. POPULATION & FLOW PROJECTIONS

Future population estimates were projected for the 20-year planning horizon by linearly extending the City of Colfax's General Plan 2020 to the year 2030. The Safety Element of the General Plan in Section 7.5 identifies a growth trend of 2.5% per year. Calculating the effective twenty year growth rate $(1-(1+2.5\%)^{20})$, the effective rate is 64%.

3.3.1. Sanitary Flow Projections

For simplicity, the ADWF and PDWF were increased by 1.64 times at each currently connected parcel to project the increase in system demand in 20 years. For reasons state in Chapter 2.2.2, the impact of dry weather flows is less than significant as compared to the I&I influence; therefore, further analysis was deems unnecessary. The assumption was tested by creating a temporary scenario with a 200% (2 times) increase in existing parcel loading and assessing the results. The resulting PWWF increases by 2.6% and no additional deficiencies resulted.

3.3.2. Inflow & Infiltration Projections

I&I was projected by adding a steady I&I flow into the system on top of the I&I used to model the existing system PWWF. As growth occur, new sewer system and laterals will be connected to the existing system. It is not known how much I&I will enter through the new system; however, the EPA has developed guidelines for estimating I&I in these situations. The

guidelines state that during wet weather flow, 275 gpcd is delineation between excessive and non-excessive I&I flow.[2]

For this analysis, the I&I of the existing system is based upon measurements available over extended periods. It is assumed that I&I resulting from new development will be less than the peak I&I currently being experienced during an 10-year, 36-hour storm event. According to Placer County Demographic Data[3], the population in January 2009 was 1878. Utilizing the 2020 Colfax General Plan growth of 2.5% over 20 year (64% growth), the population will grow by 1,201 persons.

The EPA I&I standard (275 gpcd) was applied to the projected population growth resulting in a projected peak 0.33 MGD into the system. It is assumed that most of this growth will occur within the city limits so the 0.33 MGD was applied uniformly to the system excluding the WWTP trunk system from Canyon Road to the WWTP.

It is observed that the peak per capita I&I, as explained in the next section, is approximately 1,400 gpcd (2,600,000gpd / 1878 persons). Therefore, I&I from new development is modeled to be 80% less than that currently being experienced.

[2] EPA Ecology Publication No. 97-03)
[3] Placer County Economic and Demographic Profile 2010, County of Placer, Center for Strategic Economic Research, 2010

CHAPTER 4. MODELED RESULTS & MITIGATION STRATEGIES

4.1. EXISTING FLOWS

The purpose of this chapter is to provide summaries of the model results based on the configuration of the existing system and the modeling criteria described in Chapter 2. As explained in the earlier section, the observed diurnal sanitary flows (PDWF) and the calculated 10-year, 36 hour I&I flow were combined to determine the PWWF as described in the following subsections of this chapter. All modeling scenarios assume that the pipes and manholes are clean and free of debris (roots, rocks, joint offset, etc) such that the manning "n" factor is at most 0.013.

4.1.1. Model Scenarios

The following scenarios were modeled:

1) Existing system at PDWF
2) Existing system during PDWF plus 10-year, 36 hour storm (PWWF)

4.1.2. PDWF Results

The diurnal dry weather flow pattern developed and explained in Chapter 3.3.2 was applied to the model. These flows typically average 0.15 MGD based upon July through September WWTP inflow data between 2005 and 2009. All pipes in the system were found to be less than 60% of capacity.

4.1.3. PWWF Results – Design Storm (10-Year, 36-Hour)

Under modeled conditions, a 10-year, 36-hour design storm is estimated to generate a PWWF of 2.66 MGD at the City's WWTP. This is a calculated flow that ignores manhole overflows that are predicted to occur within the system. In fact, due to overflows at thirteen manholes, not all of the 2.66 MGD would reach the plant.

Figure 4-1, provides an illustration of the model results and the locations with predicted overflows. The figure shows the following information:

Pipes

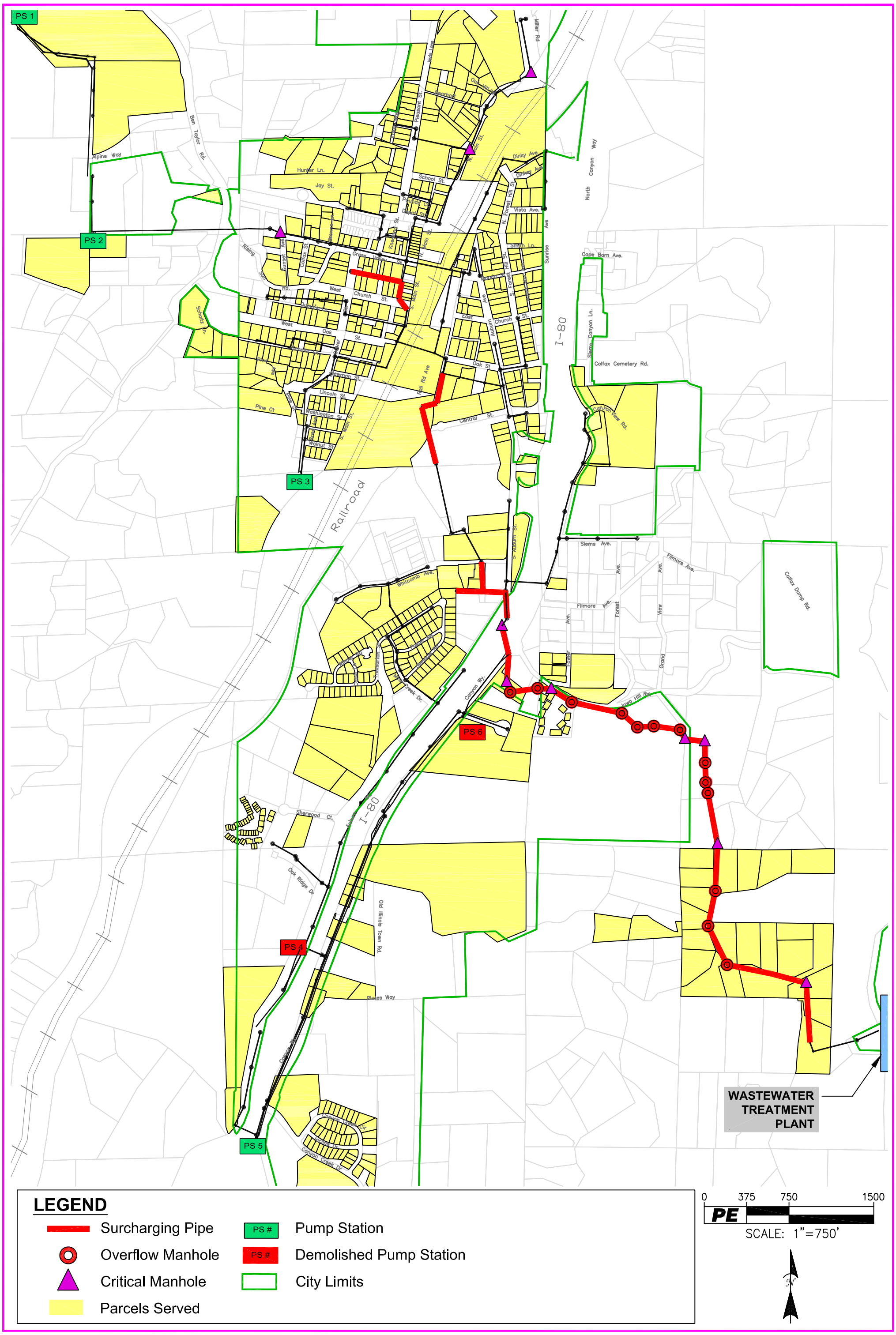
1) Black – Pipeline flow rate under capacity
2) Red – Pipeline flow rate full capacity or under pressure (surcharging)

Manholes

3) Black – Manholes with water levels more than 3 feet below the rim
4) Purple – Manholes with water levels between rim and 3 feet below rim
5) Red – Manholes with predicted overflow

The model predicts that pipelines not under surcharge conditions are flowing at a d/D of less that 0.90.

The model predicts that all pump stations, as designed and to be constructed or rehabilitated in 2010, have sufficient capacity during PWWF.



LEGEND

- Surcharging Pipe
- Overflow Manhole
- Critical Manhole
- Parcels Served
- PS # Pump Station
- PS # Demolished Pump Station
- City Limits

0 375 750 1500

PE

SCALE: 1"=750'

N

CITY OF COLFAX EXISTING SYSTEM PEAK WET WEATHER FLOW RESULTS

Figure 4-1

4.2. MITIGATION STRATEGIES

4.2.1. Exist System with 2010 Pump Station Rehabilitation

The pipe surcharging and manhole overflows predicted during design storm events are due to the excessive I&I. The design storm peak flow of 2.66 MGD is 7.8 times the predicted peak dry weather flow of 0.34 MGD. These results strongly agree with the findings of the Appendix B Technical Memorandum of wet weather rain-dependent infiltration and inflow analysis.

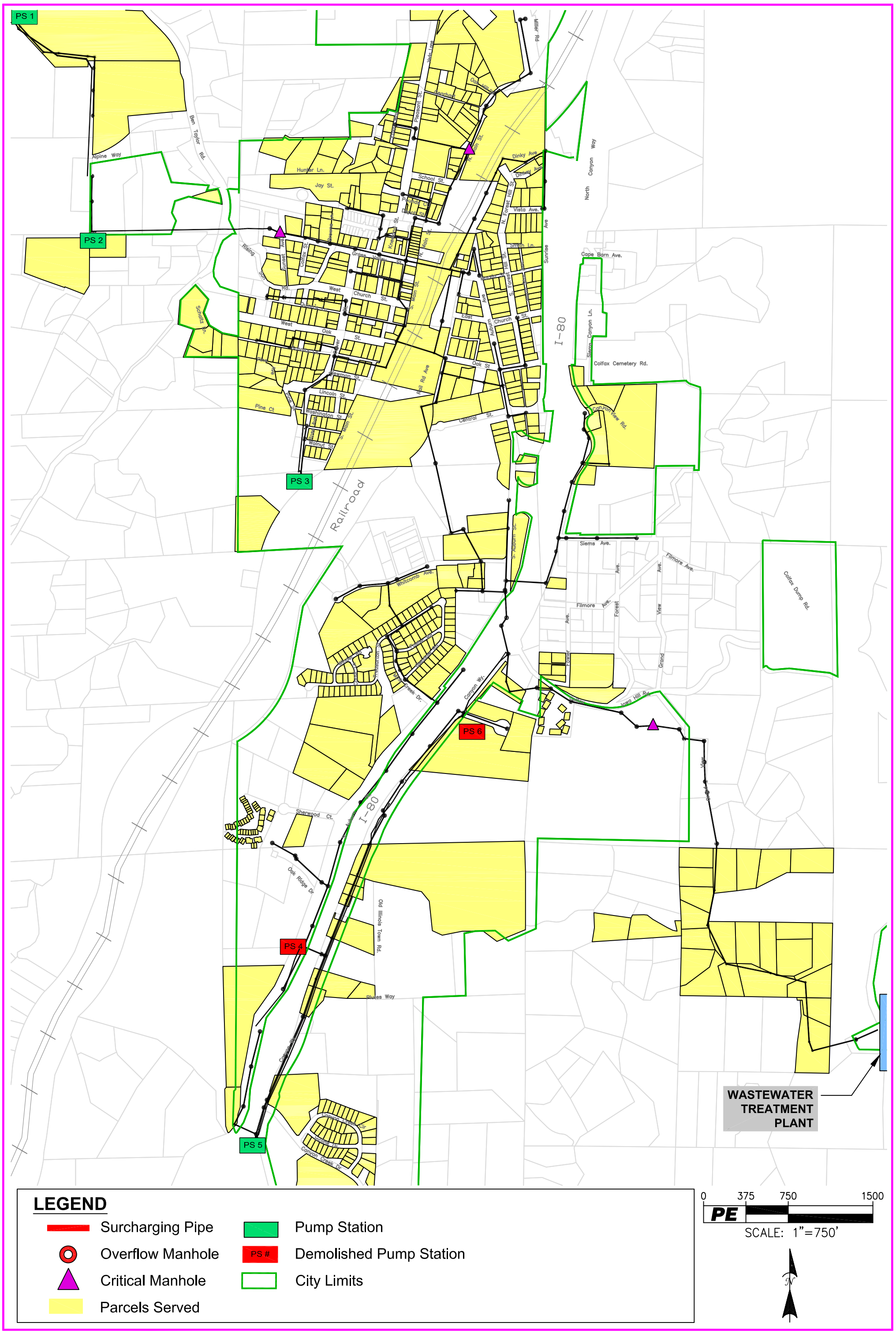
A more standard method for approximating the impact of I&I on the system is to compare the average daily dry weather flow to the peak I&I. In this case, the ADWF is approximately 0.15 MGD. The I&I can be approximated by reducing the PWWF (2.66 MGD) by the peak dry weather flow (0.34 MGD) which is 2.32 MGD. Therefore the I&I is approximately 15 times the ADWF during the design storm event.

The Environmental Protection Agency (EPA) provides a guideline for maximum per capita I&I into a WCS of 275 gallons per capita per day (gpcd). With a 2010 population of 1826 the ideal maximum I&I would be 0.5 MGD. Based upon the analysis of I&I provided in Appendix B, the maximum citywide I&I is 2.6 MGD. Therefore, the EPA guideline maximum I&I in Colfax is 80% less than is currently experienced.

The EPA maximum per capita guideline for I&I is a recommended goal that the City should work to achieve. While the achievement would still be at the top limit of the EPA recommendation, it would have a significant impact to the City in terms of operating cost savings and growth potential, as will briefly be explained in the following sections of this Chapter.

If the EPA I&I of 275 gpcd is applied to the model, analysis predicts that an I&I reduction of 80% should reduce the PWWF at the WWTP from 2.66 MGD to 0.91 MGD. At this reduced peak flow rate, the model predicts that no pipeline surcharging or manhole overflow would occur. In addition, all pipe segments would have an available capacity of 15% of full flow. Figure 4-2 shows the model simulation results with the 80% I&I reduction. The three manholes shown in the figure with critical depth is due to constructed depth of three feet plus or minus a half foot.

It is additionally noted that all pipelines in they system have a d/D less than 0.90.



CITY OF COLFAX EXISTING SYSTEM MODEL RESULTS WITH i&i REDUCED TO 275 GPCD

FIGURE 4-2

4.2.2. Modification to 2010 Pump Station Rehabilitation

While the system model predicts that overflow will occur during design storm events, the extent of the overflows can be reduced by modifying the operating condition of the rehabilitation Pump Station 5 (PS5). PS5 was originally the lower part of a staged pump system. PS5 pumped sewer flow to a soon to be demolished Pump Station 6 (PS6) at a rate of 370 gpm. PS6 then pumped the stored flows from PS5 and its basin area to the main WWTP trunk near the intersection of Canyon Way and Iowa Hill Road at a rate of 100 gpm. Therefore, PS6 attenuates the flows from PS5 thereby reducing the demand on the downstream system.

Once reconstruction of PS5 is completed, the flow rate to the same WWTP trunk will experience nearly four times its current flow from PS6. Additional modeling of this system by reducing PS5's flow to 100 gpm predicted the following:

1) Pipeline surcharging still occurs though to a lesser degree.
2) Manholes experiencing overflow downstream of PS5 was reduced from 13 to 2.

To eliminate the overflow at these two manholes, the lids can be replaced with watertight, lockable lids and sealed against exfiltration.

The results of this model scenario are provided in Appendix C.

4.3. FUTURE FLOWS (20-YEAR GROWTH PROJECTION)

The 20-year growth impact upon the WCS was modeled by applying the PDWF and PWWF scenarios described in Chapter 3. The net impact on system in terms of pipeline surcharging and manhole overflow was negligible relative to the impacts predicted by the existing system model scenarios. This is not unexpected because I&I into existing system is approximately 15 times the ADWF as explained above. Future growth represents 64% of the existing ADWF or 0.1 MGD and 80% less I&I per capita that is experienced now.

4.3.1. PDWF Results

The diurnal dry weather flow developed for the existing system was increase by 64%. All pipes in the system were found to be less than 60% of capacity.

4.3.2. PWWF Results

The PWWF was modeled by joining the PDWF of the 20-Year demand, the I&I from the existing system model, and the additional I&I projection due to growth as explained in Chapter 3.

Under these modeled conditions, the PWWF was 2.95 MGD at the City's WWTP. This represents an 11% increase in flow from the existing system PWWF. Pipeline surcharging increased significantly in the downtown area but minor additional pipeline surcharge occurs on the WWTP trunk. One additional manhole experiences overflow in the WWTP trunk.
Figure 4-3 can be used to compare the system changes with the 20-year growth projection. The figure shows the following information:

Pipes

6) Black – Pipeline flow rate under capacity
7) Red – Pipeline flow rate full capacity or under pressure (surcharging)

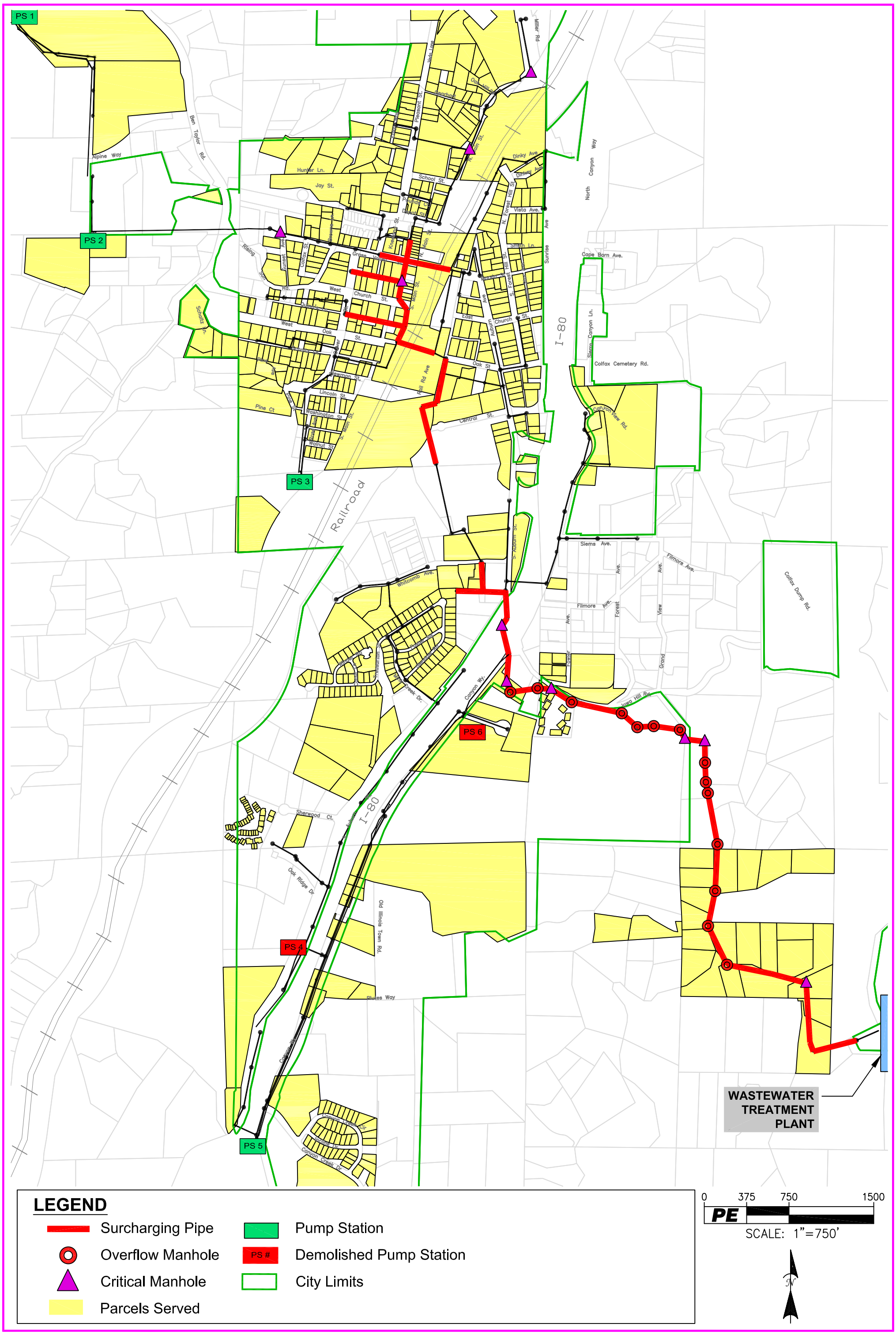
Manholes

8) Black – Manholes with water levels more than 3 feet below the rim
9) Purple – Manholes with water levels between rim and 3 feet below rim
10) Red – Manholes with predicted overflow

The model predicts that all pump stations, as designed and to be constructed or rehabilitated in 2010, have sufficient capacity during PWWF.

4.3.3. Mitigation Strategies

Mitigation strategies are the same recommended for the Existing System. If I&I can be reduce to 275 gpcd for the 20-year projected population of 2,995 then all pipe segment are predicted to be less that 95% of capacity. Figure 4-2 also illustrates the same predicted condition of the system under this scenario.



CITY OF COLFAX 20-YEAR PROJECTED GROWTH PEAK WET WEATHER FLOW RESULTS

FIGURE 4-3

CHAPTER 5. RECOMMENDATIONS & CAPITAL IMPROVEMENT COST ESTIMATES

Based upon the results of the system models for the both the existing and 20-year growth scenarios, I&I is the contributing factor to predicted pipeline surcharging and manhole overflows. While it is possible to reconstruct the WCS to convey the PWWF, observation and experience suggests that it is infeasible due to the regulatory and cost requirements.

Any reconstruction of the WCS would simply mask the fundamental I&I problem. The USEPA and State RWQCB require that excessive I&I be removed from the system. In fact, Federal and State Grant funding for collections system and wastewater treatment plants is often restricted when excess I&I is present. In addition, the RWQCB has adopted Cease and Desist Order No. R5-2010-0001 specifically requiring the City to report annually, estimates of I&I reduction based on I&I reduction projects that it expects the to City implement.[4]

In 2010, the City began implementing an I&I reduction program that will line approximately 9,000 linear feet of sewer main and rehabilitating nine manholes at a cost of approximately $1 million. It is recommended that the City continue to investigate the sources of I&I and assess the effects of I&I reduction projects such as the 2020 program mentioned above.

As sources of I&I are identified, they can be catalogued and estimated for their effective contribution to I&I. I&I is inherent to all wastewater collection systems and the cost to eliminate it must be balanced with the cost to manage it and ultimately treat it at the WWTP. Spending time and money to identify those sources that can be eliminated at the least cost with the highest beneficial impact (dollars per inflow rate eliminated) will best serve the City. The following section attempts to quantify the cost of I&I in terms of managing the PWWF and treating I&I at the WWTP.

5.1. CAPITAL IMPROVEMENT PROJECTS

The capital improvement construction projects, listed below in Table 5-1, are based upon the findings of this report recommending significant reductions in I&I. In order to reduce I&I, the most significant sources should be identified. Once I&I sources are identified, construction projects specific to each I&I source can repair the deficiency. I&I is also likely to originate from private properties as explained in Chapter 1.4.2.

When appropriate, private sources of I&I should be investigated. The owners of private properties identified as source of I&I can be required to cease all such activity. The cost of discovering private I&I sources may be reimbursable at the City's option.

Funding of the capital improvement projects identified in Table 5-1 below are predicated upon availability of funds.

[4] Cease and Desist Order No. R5-2010-0001 Requiring the City of Colfax Wastewater Treatment Plant Placer County to Cease and Desist from Discharging Contrary to Requirements, California Region Water Quality Control Board Central Valley Region, January 2010.

Table 5-1: Capital Improvement Projects

Proj. No.	Description	Approx Date	Estimated Capital Cost
1.	Flow monitoring to quantify I&I reduction from 2010 CIPP lining installation	2010 – 2011	$25,000
2.	Annual flow monitoring over five years to identify sources of I&I	2011 - 2016	$125,000
3.	Construction fund to repair public sources of I&I sources	2011-2021	$500,000
4.	Five year private sewer service inflow identification	2011-2016	$100,000
	SUBTOTAL		$750,000
	Contingency (20%)		$150,000
	TOTAL CAPITAL COST		**$900,000**

APPENDIX A

CITY OF COLFAX
SEWER CONNECTION DATABASE & EDU ASSIGNMENT

City of Colfax Sewer Connection Database

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	AUBS-001875-0000-00	0	####	1875 S AUBURN ST	COLFAX	CA	95713	S	3	CH	300	101131046000	3
0000158073	CHUW-000059-0000-00	0	####	59 W CHURCH ST	COLFAX	CA	95713	S	3	CH	200	006066019000	2
0000157950	CULV-000252-0000-00	0	####	252 CULVER ST	COLFAX	CA	95713	S	3	CH	200	006092010000	2
0000158087	OAKE-000058-0000-00	0	####	58 E OAK ST	COLFAX	CA	95713	S	3	CH	300	006102005000	3
0000158007	SHOL-000454-0000-00	0	####	454 SCHOLTZ AVE	COLFAX	CA	95713	S	3	CH	300	100130036000	3
898-1500-0	AUBN-000010-0000-00	0	####	10 N AUBURN STREET	COLFAX	CA	95713	S	3	CO	200	006071002000	2
892-0100-0	AUBS-000240-0000-02	0	####	240 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	006142035000	1
0000158282	AUBS-000300-0000-00	0	####	300 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	006143013000	1
892-0700-0	AUBS-000333-0000-00	0	####	333 S AUBURN ST	COLFAX	CA	95713	S	3	CO	500	100240010000	5
892-0800-0	AUBS-000400-0000-00	0	####	400 S AUBURN ST	COLFAX	CA	95713	S	3	CO	300	006144001000	3
892-0900-0	AUBS-000424-0000-00	0	####	424 S AUBURN ST	COLFAX	CA	95713	S	3	CO	240	100240008510	2.4
892-1250-0	AUBS-000501-0000-00	0	####	501 S AUBURN ST	COLFAX	CA	95713	S	3	CO	400	100240012000	4
0000000000	AUBS-000522-0001-00	0	####	522 S AUBURN ST	COLFAX	CA	95713	S	3	CO	400	100230035000	4
0892-13000	AUBS-000555-0000-00	0	####	555 S AUBURN ST	COLFAX	CA	95713	S	3	CO	1100	100230048000	11
0000000000	AUBS-000555-000D-00	0	####	555 S AUBURN ST # D	COLFAX	CA	95713	S	3	CO	200	100230048000	2
0000000000	AUBS-000575-0000-00	0	####	575 S AUBURN ST #U	COLFAX	CA	95713	S	3	CO	730	100230048000	7.3
892-1400-0	AUBS-000575-000A-00	0	####	575 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	100230048000	1
0000170796	AUBS-001155-0000-00	0	####	1155 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	100153015000	1
892-1650-0	AUBS-001175-0000-00	0	####	1175 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	100153003000	1
0000158292	AUBS-001213-000E-00	0	####	1213 S AUBURN ST # E	COLFAX	CA	95712	S	3	CO	300	100153004000	3
0000158294	AUBS-001255-0000-00	0	####	1255 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	100153006000	1
0000158295	AUBS-001263-0000-00	0	####	1263 S AUBURN ST	COLFAX	CA	95713	S	3	CO	100	100153005000	1
0000170424	AUBS-002121-0001-00	0	####	2121 S AUBURN ST	COLFAX	CA	95713	S	3	CO	600	101131038000	6
0089212000	AUBU-000550-0001-00	0	####	550 AUBURN ST	COLFAX	CA	95713	S	3	CO	450	100230035000	4.5
892-1000-0	CANN-000330-0000-00	0	####	300 N CANYON WAY	COLFAX	CA	95713	S	3	CO	300	101080014000	3
898-1200-0	CANN-000333-0001-00	0	####	333 N CANYON WAY	COLFAX	CA	95713	S	3	CO	300	101080030000	3
0000158309	CANS-000210-0000-00	0	####	210 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	101070006000	1
0896-03000	CANS-000212-0000-00	0	####	212 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	101080031000	1
898-0800-0	CANS-000320-0000-01	0	####	320 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	101080013000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
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892-2100-0	CANS-000350-000A-00	0	####	350 S CANYON WAY	COLFAX	CA	95713	S	3	CO	200	101080013000	2
896-0225-0	CANS-000962-0000-00	0	####	962 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	100152011000	1
896-0210-0	CANS-000986-0000-00	0	####	986 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	100152012000	1
892-1900-0	CANS-001000-0000-00	0	####	1000 S CANYON WAY	COLFAX	CA	95713	S	3	CO	600	100152015000	6
0000158304	CANS-001458-0000-00	0	####	1458 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	101132029000	1
0000170708	CANS-001506-0000-00	0	####	1506 S CANYON WAY	COLFAX	CA	95713	S	3	CO	100	101132024000	1
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898-0200-0	CANS-001624-000A-00	0	####	1454 S CANYON WAY	COLFAX	CA	95713	S	3	CO	300	101132029000	3
896-0475-0	CENT-000044-0000-00	0	####	44 CENTRAL ST	COLFAX	CA	95713	S	3	CO	200	006141009000	2
0000158082	CHUE-000003-0000-00	0	####	3 E CHURCH ST	COLFAX	CA	95713	S	3	CO	260	006101001000	2.6
0000158092	CHUE-000011-0000-00	0	####	11 E CHURCH ST	COLFAX	CA	95713	S	3	CO	100	006101002000	1
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0000158384	FORH-000102-0000-00	0	####	102 FOREST HILL AVE	COLFAX	CA	95713	S	3	CO	100	006104001000	1
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0000157872	GRAW-000121-0000-00	0	####	121 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	CO	300	006061007000	3
898-1450-0	H174-000255-0000-00	0	####	13990 YOU BET RD.	GRASS VAL	CA	95945	S	3	CO	200	006142047000	2
0000000000	H174-000301-0000-00	0	####	301 HWY 174	COLFAX	CA	95713	S	3	CO	100	006143001000	1
0000158418	H174-000701-0000-00	0	####	701 HWY 174	COLFAX	CA	95713	S	3	CO	400	100100008000	4
892-2700-0	MAIN-000002-0000-00	0	####	2 N MAIN ST	COLFAX	CA	95713	S	3	CO	100	006067011000	1
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0000170309	MAIN-000026-0000-00	0	####	26 N MAIN ST	COLFAX	CA	95713	S	3	CO	100	006067007000	1
892-3000-0	MAIN-000034-0000-00	0	####	34 N MAIN ST	COLFAX	CA	95713	S	3	CO	300	006067005000	3
0000157922	MAIN-000046-0000-00	0	####	46 N MAIN ST	COLFAX	CA	95713	S	3	CO	220	006067003000	2.2
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Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
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0000158124	MAIN-000210-0000-00	0	####	210 N MAIN ST	COLFAX	CA	95713	S	3	CO	100	006022025000	1
0000158182	MAIN-000235-0000-00	0	####	235 N MAIN ST	COLFAX	CA	95713	S	3	CO	100	006022023000	1
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0000172103	MAIS-000003-0000-00	0	####	3 S MAIN ST	COLFAX	CA	95713	S	3	CO	400	006066021000	4
0000157897	MAIS-000025-0000-00	0	####	25 S MAIN ST	COLFAX	CA	95713	S	3	CO	100	006066009000	1
0000157898	MAIS-000027-0000-00	0	####	27 S MAIN ST	COLFAX	CA	95713	S	3	CO	180	006066010000	1.8
896-0500-0	MAIS-000051-0000-00	0	####	51 S MAIN ST	COLFAX	CA	95713	S	3	CO	260	006066012000	2.6
0000169619	MAIS-000055-0000-00	0	####	55 S MAIN ST	COLFAX	CA	95713	S	3	CO	200	006066013000	2
0000158391	OAKE-000145-000A-00	0	####	145 E OAK STREET	COLFAX	CA	95713	S	3	CO	100	006142042000	1
0000000000	RAIL-000111-0000-00	0	####	111 RAILROAD AVE	COLFAX	CA	95713	S	3	CO	2800	006093021000	28
0000158096	RAIL-000201-0000-00	0	####	201 RAILROAD AVE	COLFAX	CA	95713	S	3	CO	100	006093021000	1
898-2100-0	RAIL-000212-0000-00	0	####	212 RAILROAD AVE	COLFAX	CA	95713	S	3	CO	400	006102009000	4
0000000000	RAIL-000219-0000-00	0	####	219 RAILROAD AVE	COLFAX	CA	95713	S	3	CO	200	006131009000	2
898-1800-0	RAIL-000223-0000-00	0	####	223 RAILROAD AVE	COLFAX	CA	95713	S	3	CO	200	006131009000	2
0089820000	RAIL-000235-0000-00	0	####	PO BOX 1236	COLFAX	CA	95713	S	3	CO	100	006131009000	1
0000157879	RISS-000009-0000-00	0	####	9 RISING SUN RD	COLFAX	CA	95713	S	3	CO	180	006062009000	1.8
0000158125	SCHO-000013-0000-00	0	####	13 SCHOOL ST	COLFAX	CA	95713	S	3	CO	100	006022026000	1
0000000000	SCHO-000055-0000-00	0	####	55 SCHOOL ST	COLFAX	CA	95713	S	3	CO	690	006022024000	6.9
0000158222	SHER-000160-0000-00	0	####	160 SHERWOOD CT	COLFAX	CA	95713	S	3	CO	100	100153013000	1
0000170739	WHIT-000120-0000-00	0	####	120 WHITCOMB AVE	COLFAX	CA	95713	S	3	CO	140	100230051000	1.4
00892-1425	WHIT-000130-0000-00	0	####	130 WHITCOMB AVE	COLFAX	CA	95713	S	3	CO	450	100230057000	4.5
00892-1425	WHIT-000130-000A-00	0	####	130 WHITCOMB AVE # A	COLFAX	CA	95713	S	3	CO	137	100230057000	1.37
892-1450-0	WHIT-000148-0000-00	0	####	148 WHITCOMB AVE	COLFAX	CA	95713	S	3	CO	400	100230013000	4
896-0200-0	WHIT-000152-0000-00	0	####	152 WHITCOMB AVE	COLFAX	CA	95713	S	3	CO	700	100230054000	7
0000000000	WHIT-000158-0001-00	0	####	158 WHITCOMB AVE # 1	COLFAX	CA	95713	S	3	CO	300	100230053000	3
0000000000	WIND-000120-0000-00	0	####	120 WINDER RD	COLFAX	CA	95713	S	3	CO	100	100260057000	1
592-2300-0	CHUW-000040-0000-00	0	####	40 W CHURCH ST	COLFAX	CA	95713	S	3	GO	200	006091003000	2
00896-0950	CULV-000010-0000-00	0	####	10 CULVER ST	COLFAX	CA	95713	S	3	GO	200	006066001000	2
0000000000	FOWL-024020-0000-00	0	####	24020 FOWLER AVE	COLFAX	CA	95713	SO	3	GO	308	101093008000	3.08

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
896-0900-0	SUNC-000022-0000-00	0	####	22 SUNSET CIRCLE	COLFAX	CA	95713	S	3	GO	300	006052001000	3
0000158343	AUBN-000005-0001-00	0	####	5 N AUBURN STREET	COLFAX	CA	95713-1407	S	3	RE	100	006073005000	1
0000158346	AUBN-000011-0000-00	0	####	11 N AUBURN STREET	COLFAX	CA	95713	S	3	RE	100	006073009000	1
0000158347	AUBN-000033-0000-00	0	####	33 N AUBURN STREET	COLFAX	CA	95713	S	3	RE	100	006073007000	1
0000158348	AUBN-000035-0000-00	0	####	35 N AUBURN STREET	COLFAX	CA	95713	S	3	RE	260	006073006000	2.6
0000158344	AUBS-000002-0000-00	0	####	2 S AUBURN ST	COLFAX	CA	95713	S	3	RE	180	006074008000	1.8
0000158332	AUBS-000010-0000-00	0	####	10 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006074010000	1
0000158078	AUBS-000015-0000-00	0	####	15 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006072002000	1
0000158331	AUBS-000018-0000-00	0	####	18 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006074007000	1
0000158330	AUBS-000022-0000-00	0	####	22 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006074006000	1
0000158079	AUBS-000023-0000-00	0	####	23 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006072003000	1
0000158085	AUBS-000033-0000-00	0	####	33 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006072004000	1
0000158329	AUBS-000034-0000-00	0	####	34 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006074004000	1
0000158090	AUBS-000121-0000-00	0	####	121 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006101013000	1
0000158327	AUBS-000122-0000-00	0	####	122 S AUBURN ST	COLFAX	CA	95713	S	3	RE	180	006103003000	1.8
0000158086	AUBS-000133-0000-00	0	####	133 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006101014000	1
0000000000	AUBS-000159-0000-00	0	####	159 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006101015000	1
0000158319	AUBS-000204-0000-02	0	####	204 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006142039000	1
0000158317	AUBS-000210-0000-00	0	####	210 S AUBURN ST	COLFAX	CA	95713	S	3	RE	360	006142022000	3.6
0000000000	AUBS-000220-000B-01	0	####	220 S AUBURN ST	COLFAX	CA	95713	S	3	RE	400	006142021000	4
0000171970	AUBS-000233-0000-02	0	####	233 S AUBURN ST	COLFAX	CA	95713	S	3	RE	220	006141008000	2.2
892-0300-0	AUBS-000234-0000-01	0	####	234 S AUBURN ST	COLFAX	CA	95713	S	3	RE	470	006142020000	4.7
0000158287	AUBS-000303-0000-00	0	####	303 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006141002000	1
0000158285	AUBS-000308-0000-00	0	####	308 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006143005000	1
0000158288	AUBS-000309-0000-00	0	####	309 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006141003000	1
0000158289	AUBS-000313-0000-02	0	####	313 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006141004000	1
0000158286	AUBS-000320-0000-00	0	####	320 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	006143004000	1
0000158310	AUBS-000504-0000-00	0	####	504 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	100230035000	1
0000000000	AUBS-000555-000E-00	0	####	555 S AUBURN ST # E	COLFAX	CA	95713	S	3	RE	200	100230048000	2
0000000000	AUBS-001001-0000-00	0	####	1001 S AUBURN ST	COLFAX	CA	95713	S	3	RE	220	100230029000	2.2
0000158291	AUBS-001033-0000-00	0	####	1033 S AUBURN ST	COLFAX	CA	95713	S	3	RE	100	100230030000	1
0000158202	AUBS-001075-0006-00	0	####	170 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260006000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158205	AUBS-001075-0007-00	0	####	168 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260007000	1
0000158206	AUBS-001075-0008-00	0	####	166 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260008000	1
0000168997	AUBS-001075-0010-00	0	####	162 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260010000	1
0000158213	AUBS-001075-0015-00	0	####	155 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260015000	1
0000158215	AUBS-001075-0018-00	0	####	161 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260018000	1
0000158217	AUBS-001075-0020-02	0	####	105 WINDER ROAD	COLFAX	CA	95713	S	3	RE	100	100260020000	1
0000158220	AUBS-001075-0023-00	0	####	111 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260023000	1
0000170187	AUBS-001075-0024-00	0	####	113 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260024000	1
0000158221	AUBS-001075-0025-00	0	####	115 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260025000	1
0000158216	AUBS-001075-0028-00	0	####	102 WINDER ROAD	COLFAX	CA	95713	S	3	RE	100	100260064000	1
0000158204	AUBS-001075-0030-00	0	####	167 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260030000	1
0000158203	AUBS-001075-0031-00	0	####	169 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260031000	1
0000158200	AUBS-001075-0032-00	0	####	173 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260032000	1
0000170193	AUBS-001075-0034-00	0	####	179 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260034000	1
0000170338	AUBS-001075-0036-00	0	####	203 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260036000	1
0000158195	AUBS-001075-0037-00	0	####	205 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260037000	1
0000158187	AUBS-001075-0044-00	0	####	105 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260044000	1
0000158183	AUBS-001075-0046-00	0	####	101 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260046000	1
0000158186	AUBS-001075-0048-00	0	####	104 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260048000	1
0000170202	AUBS-001075-0050-00	0	####	108 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260050000	1
0000158191	AUBS-001075-0051-00	0	####	112 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260051000	1
0000168232	AUBS-001075-0054-00	0	####	118 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260054000	1
0000170676	AUBS-001075-0057-00	0	####	211 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270003000	1
0000170327	AUBS-001075-0058-01	0	####	213 TREASURTON STREET	COLFAX	CA	95713	S	3	RE	100	100270004000	1
0000170597	AUBS-001075-0060-00	0	####	217 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270006000	1
0000170566	AUBS-001075-0061-00	0	####	219 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270007000	1
0000170326	AUBS-001075-0064-00	0	####	225 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270010000	1
0000170795	AUBS-001075-0065-00	0	####	222 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270011000	1
0000170582	AUBS-001075-0067-00	0	####	218 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270013000	1
0000170511	AUBS-001075-0070-00	0	####	212 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270016000	1
0000170896	AUBS-001075-0071-00	0	####	210 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270017000	1
0000170897	AUBS-001075-0072-00	0	####	203 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270018000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157084	AUBS-001075-0073-00	0	####	205 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270019000	1
0000170511	AUBS-001075-0077-00	0	####	213 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270023000	1
0000170339	AUBS-001075-0079-00	0	####	208 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270025000	1
0000170619	AUBS-001075-0080-00	0	####	206 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270026000	1
0000170784	AUBS-001075-0085-00	0	####	202 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270031000	1
0000170201	AUBS-001075-0086-00	0	####	204 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270032000	1
0000170581	AUBS-001075-0088-00	0	####	208 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270034000	1
0000170801	AUBS-001075-0089-00	0	####	210 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270035000	1
0000170826	AUBS-001075-0090-00	0	####	212 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270036000	1
0000171054	AUBS-001075-0091-00	0	####	214 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270037000	1
0000153796	AUBS-001075-0096-00	0	####	224 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270042000	1
0000170865	AUBS-001075-0098-00	0	####	228 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270044000	1
0000000000	BENT-024675-0000-00	0	####	24675 BEN TAYLOR RD	COLFAX	CA	95713	S	3	RE	100	100120047000	1
0000157994	BROW-000027-0000-00	0	####	27 BROWNS LN	COLFAX	CA	95713	S	3	RE	100	006061044000	1
0000157993	BROW-000034-0000-00	0	####	34 BROWNS LN	COLFAX	CA	95713	S	3	RE	180	006061015000	1.8
0000157992	BROW-000044-0000-00	0	####	44 BROWNS LN	COLFAX	CA	95713	S	3	RE	100	006061014000	1
0000158281	CACC-000202-0000-00	0	####	202 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200029000	1
0000158280	CACC-000205-0000-00	0	####	205 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200023000	1
0000158279	CACC-000208-0000-02	0	####	208 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200030000	1
0000158278	CACC-000214-0000-00	0	####	214 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200031000	1
0000158277	CACC-000215-0000-01	0	####	215 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200024000	1
0000158276	CACC-000220-0000-00	0	####	220 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200032000	1
0000158275	CACC-000223-0000-01	0	####	223 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200025000	1
0000158274	CACC-000226-0000-00	0	####	226 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200033000	1
0000168957	CACC-000231-0000-00	0	####	231 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200026000	1
0000158273	CACC-000232-0001-00	0	####	232 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200034000	1
0000158272	CACC-000235-0000-00	0	####	235 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200027000	1
0000158271	CACC-000238-0000-00	0	####	238 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200035000	1
0000158269	CACC-000242-0000-00	0	####	242 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200036000	1
0000158270	CACC-000247-0000-00	0	####	247 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200028000	1
0000892000	CACC-000248-0000-00	0	####	248 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200037000	1
0000158268	CACC-000250-0000-00	0	####	250 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200038000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	CACC-000254-0000-00	0	####	254 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200039000	1
0000171776	CACC-000256-0000-02	0	####	256 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200040000	1
0000168356	CACC-000269-0000-00	0	####	269 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200010000	1
0000158262	CACC-000275-0000-00	0	####	275 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200011000	1
0000158263	CACC-000283-0000-00	0	####	283 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200012000	1
0000158267	CACC-000291-0000-00	0	####	291 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200013000	1
0000158264	CACC-000300-0000-00	0	####	300 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200044000	1
0000170248	CACC-000306-0000-01	0	####	306 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200043000	1
0000158266	CACC-000310-0000-00	0	####	310 CANYON CREEK CIR	COLFAX	CA	95713	S	3	RE	100	101200046000	1
0000000000	CACD-000301-0000-00	0	####	301 CANYON CREEK DR	COLFAX	CA	95713	S	3	RE	4420	101132046000	44.2
0000170248	CACD-000306-0000-02	0	####	306 CANYON CREEK DR	COLFAX	CA	95713	S	3	RE	100	101200043000	1
0000000000	CACD-000308-0000-00	0	####	308 CANYON CREEK DR	COLFAX	CA	95713	S	3	RE	100	101200042000	1
898-1100-0	CANC-000205-0000-00	0	####	205 S CANYON COURT	COLFAX	CA	95713	S	3	RE	5380	101080004000	53.8
0000000000	CANN-000246-0001-00	0	####	246 CANYON WAY	COLFAX	CA	95713	S	3	RE	100	101080031000	1
892-2000-0	CANS-000400-0000-01	0	####	400 S CANYON WAY	COLFAX	CA	95713	S	3	RE	200	101080008000	2
0000000000	CANS-000600-0000-00	0	####	600 S CANYON WAY	COLFAX	CA	95713	SO	3	RE	100	101092024000	1
0000000000	CANS-000920-0000-00	0	####	920 S CANYON WAY	COLFAX	CA	95713	SO	3	RE	100	100152004000	1
0000158303	CANS-001744-0000-00	0	####	1744 S CANYON WAY	COLFAX	CA	95713	S	3	RE	180	101132016000	1.8
0089801000	CANS-001774-0000-02	0	####	1774 S CANYON WAY	COLFAX	CA	95713	S	3	RE	100	101132027000	1
896-0175-0	CEDR-000201-000A-00	0	####	201 CEDAR RAVINE CIR. #A	COLFAX	CA	95713	S	3	RE	2100	101132043000	21
0000158083	CHUE-000024-0000-00	0	####	24 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006072006000	1
0000158084	CHUE-000034-0000-00	0	####	34 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006072005000	1
0000158093	CHUE-000043-0000-00	0	####	43 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006101003000	1
0000158091	CHUE-000045-0000-02	0	####	45 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006101004000	1
0000158392	CHUE-000103-0000-00	0	####	103/105/107 EAST CHURCH	COLFAX	CA	95713	S	3	RE	260	006103001000	2.6
0000158393	CHUE-000112-0000-00	0	####	112/114 E CHURCH ST	COLFAX	CA	95713	S	3	RE	180	006074005000	1.8
0000158381	CHUE-000120-0000-02	0	####	120 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006076018000	1
0000170310	CHUE-000151-0000-00	0	####	151 E CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006104014000	1
0000158071	CHUW-000002-0001-00	0	####	2 W CHURCH ST	COLFAX	CA	95713	S	3	RE	200	006091006000	2
0000000000	CHUW-000025-000A-02	0	####	25 W CHURCH ST # A	COLFAX	CA	95713	S	3	RE	100	006066026000	1
0000157895	CHUW-000029-0000-00	0	####	29 W CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006066025000	1
0000157929	CHUW-000034-0000-00	0	####	34 W CHURCH ST	COLFAX	CA	95713	S	3	RE	180	006091029000	1.8

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157890	CHUW-000039-0000-00	0	####	39 W CHURCH ST	COLFAX	CA	95713	S	3	RE	340	006066017000	3.4
0000157928	CHUW-000044-0000-02	0	####	44 W CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006091002000	1
0000172325	CHUW-000055-0000-02	0	####	55 W CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006066018000	1
0000157883	CHUW-000110-0000-02	0	####	110 W CHURCH ST	COLFAX	CA	95713	S	3	RE	100	006080023000	1
0000157882	CHUW-000120-0000-00	0	####	120 W CHURCH ST	COLFAX	CA	95713	S	3	RE	180	006080048000	1.8
0000157998	CHUW-000130-0000-00	0	####	134 W CHURCH ST	COLFAX	CA	95713	S	3	RE	180	006080037000	1.8
896-1000-0	COLF-000004-0000-00	0	####	4 COLFAX AVE	COLFAX	CA	95713	S	3	RE	340	006062007000	3.4
0000171193	COLF-000015-0000-00	0	####	15 COLFAX AVE	COLFAX	CA	95713	S	3	RE	100	006053007000	1
896-1000-0	COLF-000022-0000-00	0	####	22 COLFAX AVE	COLFAX	CA	95713	S	3	RE	340	006062002000	3.4
0000157988	COLF-000040-0000-02	0	####	40 COLFAX AVE	COLFAX	CA	95713	S	3	RE	100	006062003000	1
896-1025-0	COLF-000044-0001-00	0	####	44 COLFAX AVE	COLFAX	CA	95713	S	3	RE	340	006062004000	3.4
0000000000	COLF-000055-0000-00	0	####	55 COLFAX AVE	COLFAX	CA	957	S	3	RE	100	006053004000	1
0000163128	COLF-000058-0001-00	0	####	58 COLFAX AVE	COLFAX	CA	95713	S	3	RE	100	006062008000	1
0000170565	COND-000103-0001-00	0	####	103 CONDI LN	COLFAX	CA	95713	S	3	RE	100	100260063000	1
0000169101	COND-000104-0002-00	0	####	104 CONDI LN	COLFAX	CA	95713	S	3	RE	100	100260026000	1
0000158394	CORT-000681-0000-00	0	####	681 CORTOPASSI CT	COLFAX	CA	95713	S	3	RE	300	100230052000	3
0000157876	CULV-000005-0000-00	0	####	5 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006063005000	1
0000157887	CULV-000015-0000-00	0	####	15 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006063006000	1
0000157886	CULV-000017-0000-00	0	####	17 CULVER ST	COLFAX	CA	95713	S	3	RE	340	006063003000	3.4
0000157881	CULV-000033-0000-00	0	####	33 CULVER ST	COLFAX	CA	95713	S	3	RE	180	006063004000	1.8
0000157884	CULV-000101-0000-00	0	####	101 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006080022000	1
0000158072	CULV-000102-0000-00	0	####	102 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006091032000	1
0000158002	CULV-000107-0000-00	0	####	107 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006080021000	1
0000157926	CULV-000114-0001-00	0	####	114 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006091025000	1
0000158069	CULV-000120-0000-00	0	####	120 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006091021000	1
0000158003	CULV-000121-0000-00	0	####	121 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006080008000	1
0000157935	CULV-000133-0000-00	0	####	133 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006080009000	1
0000157936	CULV-000145-0000-00	0	####	145 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006080010000	1
0000158030	CULV-000221-0000-00	0	####	221 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006112037000	1
0000157947	CULV-000222-0000-00	0	####	222 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006092012000	1
0000157948	CULV-000232-0000-00	0	####	232 CULVER ST	COLFAX	CA	95713	S	3	RE	180	006092011000	1.8
0000157952	CULV-000233-0000-02	0	####	233 CULVER ST	COLFAX	CA	95713	S	3	RE	100	006112057000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157911	DEPA-000044-0000-00	0	####	44 DEPOT ALLEY	COLFAX	CA	95713	S	3	RE	100	006064004000	1
0000158349	DEPE-000101-0000-00	0	####	101 E DEPOT ST	COLFAX	CA	95713	S	3	RE	100	006073013000	1
0000000000	DEPE-000125-0000-01	0	####	125 E DEPOT ST	COLFAX	CA	95713	S	3	RE	100	006073014000	1
0000158351	DEPE-000169-0000-00	0	####	169 E DEPOT ST	COLFAX	CA	95713	S	3	RE	100	006073015000	1
0000157919	DEPO-000009-0000-02	0	####	9 DEPOT STREET	COLFAX	CA	95713	S	3	RE	300	006043003000	3
0000157915	DEPO-000011-0000-02	0	####	11 DEPOT STREET	COLFAX	CA	95713	S	3	RE	300	006043004000	3
0078310500	DEPO-000033-0000-00	0	####	33 DEPOT STREET	COLFAX	CA	95713	S	3	RE	180	006042005000	1.8
0000158111	DEPO-000049-0000-00	0	####	49 DEPOT STREET	COLFAX	CA	95713	S	3	RE	180	006042007000	1.8
0000158110	DEPO-000055-0000-01	0	####	55 E DEPOT ST	COLFAX	CA	95713	S	3	RE	100	006042006000	1
0000170157	DEPO-000110-0000-00	0	####	110 DEPOT STREET	COLFAX	CA	95713	S	3	RE	100	006030022000	1
0000158104	DEPO-000130-0000-00	0	####	130 DEPOT STREET	COLFAX	CA	95713	S	3	RE	100	006030013000	1
0000158107	DEPO-000140-0000-00	0	####	140 DEPOT STREET	COLFAX	CA	95713	S	3	RE	100	006030014000	1
0000158106	DEPO-000150-0000-00	0	####	150 DEPOT STREET	COLFAX	CA	95713	S	3	RE	100	006030051000	1
0000171493	DEPO-000151-0000-00	0	####	151 DEPOT STREET	COLFAX	CA	95713	S	3	RE	100	006061043000	1
0000158113	DEPW-000043-0000-00	0	####	43 W DEPOT ST	COLFAX	CA	95713	S	3	RE	100	006042003000	1
0000158364	DINK-000161-0000-00	0	####	161 DINKY AVE	COLFAX	CA	95713	S	3	RE	100	006044008000	1
0000158361	DINK-000202-0000-00	0	####	202 DINKY AVE	COLFAX	CA	95713	S	3	RE	100	006022023000	1
0000158141	EASY-000246-0000-00	0	####	246 EASY WAY	COLFAX	CA	95713	S	3	RE	100	100110022000	1
0000171855	EASY-000300-0000-00	0	####	300 EASY WAY	COLFAX	CA	95713	S	3	RE	100	100110029000	1
0000158142	EASY-000306-0000-03	0	####	306 EASY WAY	COLFAX	CA	95713	S	3	RE	100	100110029000	1
0000171867	FIRH-000056-0000-00	0	####	56 FIRE HOUSE ALLEY	COLFAX	CA	95713	S	3	RE	100	006066031000	1
0000171154	FOHN-000012-0000-00	0	####	12 N FOREST HILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006073011000	1
0000172846	FOHN-000014-0000-00	0	####	14 N FOREST HILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006073010000	1
0000158338	FOHN-000033-0001-00	0	####	33 N FOREST HILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006075010000	1
0000158337	FOHN-000039-0001-00	0	####	39 N FOREST HILL AVENUE	COLFAX	CA	95713-1407	S	3	RE	100	006075009000	1
0000158335	FOHN-000042-0000-00	0	####	42 N FOREST HILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006073008000	1
0000169308	FOHN-000055-0000-00	0	####	55 N FOREST HILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006075001000	1
0000158352	FOHN-000100-0000-00	0	####	100 N FORESTHILL AVE	COLFAX	CA	95713	S	3	RE	100	006043009000	1
0000158353	FOHN-000111-0001-00	0	####	111 N FOREST HILL AVENU	COLFAX	CA	95713	S	3	RE	100	006045001000	1
0000158354	FOHN-000120-0000-00	0	####	120 N FORESTHILL AVENUE	COLFAX	CA	95713	S	3	RE	100	006043010000	1
0000158355	FOHN-000130-0000-00	0	####	130 N FORESTHILL AVE.	COLFAX	CA	95713	S	3	RE	100	006043011000	1
0000158356	FOHN-000140-0000-00	0	####	140 N FOREST HILL AVENU	COLFAX	CA	95713	S	3	RE	100	006043012000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158358	FOHN-000150-0000-00	0	####	150 N FOREST HILL AVENU	COLFAX	CA	95713	S	3	RE	100	006043016000	1
0000158360	FOHN-000160-0000-00	0	####	160 N FOREST HILL AVENU	COLFAX	CA	95713	S	3	RE	100	006043015000	1
0000158392	FORH-000101-0000-00	0	####	101 FOREST HILL AVE	COLFAX	CA	95713	S	3	RE	100	006103001000	1
0000158333	FORS-000005-0000-00	0	####	5 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006074002000	1
0000158376	FORS-000022-0000-00	0	####	22 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006076011000	1
0000158377	FORS-000034-0000-00	0	####	34 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006076010000	1
0000790280	FORS-000044-0000-00	0	####	44 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006076009000	1
0000158382	FORS-000058-0000-00	0	####	58 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006076008000	1
0000158385	FORS-000110-0000-00	0	####	110 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104009000	1
0000158328	FORS-000111-0000-00	0	####	111 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006103002000	1
0000158386	FORS-000120-0000-00	0	####	120 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104008000	1
0000158387	FORS-000128-0000-00	0	####	128 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104007000	1
0000158324	FORS-000129-0000-00	0	####	129 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	180	006103004000	1.8
0000058388	FORS-000134-0000-00	0	####	134 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104006000	1
0000158323	FORS-000141-0000-02	0	####	141 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006103005000	1
0000158389	FORS-000144-0000-00	0	####	144 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104005000	1
0000158390	FORS-000150-0000-00	0	####	150 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006104012000	1
0000158359	FORS-000159-0000-00	0	####	159 S FOREST HILL AVE.	COLFAX	CA	95713	S	3	RE	100	006044006000	1
0000170774	FOST-000202-0002-00	0	####	202 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270048000	1
0000170568	FOST-000204-0000-00	0	####	204 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270027000	1
0000164610	FOST-000207-0000-02	0	####	207 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270020000	1
0000170325	FOST-000209-0001-00	0	####	209 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270021000	1
0000170727	FOST-000210-0000-02	0	####	210 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270024000	1
0000170386	FOST-000211-0001-00	0	####	211 FOSTER RD	COLFAX	CA	95713	S	3	RE	100	100270022000	1
0000000000	FOWL-024000-0000-00	0	####	24000 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101093014000	1
0000000000	FOWL-024005-0001-00	0	####	24005 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101092021000	1
0000000000	FOWL-024011-0000-00	0	####	24011 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101092028000	1
0000000000	FOWL-024017-0001-00	0	####	24017 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101092029000	1
0000000000	FOWL-024029-0000-00	0	####	24029 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101092026000	1
0000000000	FOWL-024033-0000-00	0	####	24033 FOWLER AVE	COLFAX	CA	95713	SO	3	RE	100	101092027000	1
0000000000	GAYL-000565-0000-00	0	####	565 GAYL DRIVE	COLFAX	CA	95713	SO	3	RE	100	101161043000	1
0000000000	GAYL-000580-0000-00	0	####	580 GAYL DRIVE	COLFAX	CA	95713	SO	3	RE	100	101161044000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158169	GEAR-000009-0000-00	0	####	9 GEARHART LN	COLFAX	CA	95713	S	3	RE	100	006010006000	1
0000158165	GEAR-000012-0000-00	0	####	12 GEARHART LN	COLFAX	CA	95713	S	3	RE	100	006022005000	1
0000158164	GEAR-000013-0000-00	0	####	13 GEARHART LN	COLFAX	CA	95713	S	3	RE	180	006010005000	1.8
0000158163	GEAR-000022-0000-00	0	####	22 GEARHART LN	COLFAX	CA	95713	S	3	RE	100	006022022000	1
0000158162	GEAR-000033-0000-00	0	####	33 GEARHART LN	COLFAX	CA	95713	S	3	RE	100	006010022000	1
0000158159	GEAR-000044-0000-00	0	####	44 GEARHART LN	COLFAX	CA	95713	S	3	RE	100	006022002000	1
0000158160	GERW-000032-0000-00	0	####	32 W GEARHART LN	COLFAX	CA	95713	S	3	RE	180	006022021000	1.8
0000158161	GERW-000047-0000-00	0	####	47 W GEARHART LN	COLFAX	CA	95713	S	3	RE	180	006010024000	1.8
0000158185	GLEN-000200-0002-00	0	####	200 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100260047000	1
0000170769	GLEN-000203-0001-00	0	####	203 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270030000	1
0000157709	GLEN-000205-0000-85	0	####	205 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270047000	1
0000170732	GLEN-000206-0000-00	0	####	206 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270033000	1
0000000000	GLEN-000216-0000-00	0	####	216 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270038000	1
0000170731	GLEN-000218-0001-00	0	####	218 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270039000	1
0000170636	GLEN-000220-0001-00	0	####	220 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270040000	1
0000170685	GLEN-000222-0000-00	0	####	222 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270041000	1
0000170742	GLEN-000226-0000-00	0	####	226 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270043000	1
0000170733	GLEN-000230-0100-00	0	####	230 GLENDALE RD	COLFAX	CA	95713	S	3	RE	100	100270045000	1
0000158077	GRAE-000045-0000-00	0	####	45 E GRASS VALLEY STREE	COLFAX	CA	95713	S	3	RE	100	006071006000	1
0000000000	GRAV-023580-0000-00	0	####	23580 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161054000	1
0000000000	GRAV-023610-0000-00	0	####	23610 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161050000	1
0000000000	GRAV-023620-0002-00	0	####	23620 GRAND VIEW WAY	COLFAX	CA	95713	SO	3	RE	100	101161046000	1
0000000000	GRAV-023630-0000-00	0	####	23630 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161045000	1
0000000000	GRAV-023640-0000-00	0	####	23640 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161047000	1
0000000000	GRAV-023649-0000-00	0	####	23649 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161049000	1
0000000000	GRAV-023653-0000-02	0	####	23653 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161048000	1
0000000000	GRAV-023657-0000-00	0	####	23657 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161034000	1
0000000000	GRAV-023675-0000-00	0	####	23675 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161032000	1
0000000000	GRAV-023680-0000-02	0	####	23680 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161042000	1
0000000000	GRAV-023695-0000-00	0	####	23695 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161031000	1
0000000000	GRAV-023735-0000-00	0	####	23735 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161029000	1
0000000000	GRAV-023750-0000-00	0	####	23750 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161037000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	GRAV-023755-0000-00	0	####	23755 GRAND VIEW AVE	COLFAX	CA	95713	SO	3	RE	100	101161028000	1
0000169879	GRAW-000025-0000-00	0	####	25 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006065004000	1
0000157893	GRAW-000030-0000-00	0	####	30 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006066006000	1
0000157891	GRAW-000036-0000-00	0	####	36 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006066005000	1
0000158075	GRAW-000045-0000-00	0	####	45 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006065005000	1
0000157889	GRAW-000048-0000-00	0	####	48 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006066024000	1
0000000000	GRAW-000052-0000-00	0	####	52 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006066030000	1
0000157888	GRAW-000054-0002-00	0	####	54 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006066029000	1
0000000000	GRAW-000055-0001-00	0	####	55 W GRASS VALLEY STRE	COLFAX	CA	95713	S	3	RE	100	006065006000	1
0000157871	GRAW-000101-0000-00	0	####	101 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	200	006061019000	2
0000157874	GRAW-000131-0000-00	0	####	131 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	100	006061008000	1
0000157875	GRAW-000141-0000-00	0	####	141 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	100	006061009000	1
0000000000	GRAW-000145-0002-00	0	####	145 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	100	006061010000	1
0000157995	GRAW-000149-0000-00	0	####	149 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	100	006061012000	1
0000157996	GRAW-000203-0000-00	0	####	203 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	200	006061003000	2
0000157990	GRAW-000215-0000-00	0	####	215 W GRASS VALLEY STR	COLFAX	CA	95713	S	3	RE	100	006061011000	1
0000000000	GRVW-023590-0000-00	0	####	23590 GRAND VIEW WAY	COLFAX	CA	95713	SO	3	RE	100	101161053000	1
0000000000	GRVW-023715-0000-00	0	####	23715 GRAND VIEW WAY	COLFAX	CA	95713	SO	3	RE	100	101161030000	1
0000169365	H174-000233-0000-00	0	####	233 HWY 174	COLFAX	CA	95713	S	3	RE	100	006142044000	1
0000158284	H174-000313-0000-02	0	####	313 HWY 174	COLFAX	CA	95713	S	3	RE	100	006143002000	1
0000000000	HILH-000313-0000-00	0	####	313 HILL HAVEN DRIVE	COLFAX	CA	95713	SO	3	RE	100	101161014000	1
0000158136	HUNT-000110-0000-02	0	####	110 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030062000	1
0000172510	HUNT-000120-0000-01	0	####	120 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030061000	1
0000158139	HUNT-000121-0000-00	0	####	121 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	100110007000	1
0000158138	HUNT-000131-0002-00	0	####	131 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030002000	1
0000158137	HUNT-000141-0000-00	0	####	141 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	100110010000	1
0000158135	HUNT-000150-0000-00	0	####	150 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030045000	1
0000158134	HUNT-000191-0000-00	0	####	191 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030030000	1
0000158133	HUNT-000201-0000-00	0	####	201 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030058000	1
0000158132	HUNT-000225-0000-00	0	####	225 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030049000	1
0000158131	HUNT-000233-0000-00	0	####	233 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030050000	1
0000158130	HUNT-000255-0000-00	0	####	255 HUNTER LN	COLFAX	CA	95713	S	3	RE	100	006030048000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000168214	INCL-000200-0000-00	0	####	200 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200022000	1
0000158245	INCL-000201-0001-00	0	####	201 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200001000	1
0000158246	INCL-000204-0000-00	0	####	204 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200021000	1
0000158547	INCL-000207-0000-00	0	####	207 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200002000	1
0000158249	INCL-000210-0000-04	0	####	210 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200020000	1
0000158248	INCL-000211-0002-00	0	####	211 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200003000	1
0000158250	INCL-000217-0000-00	0	####	217 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200004000	1
0000158251	INCL-000218-0001-00	0	####	218 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200019000	1
0000158252	INCL-000219-0000-00	0	####	219 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200005000	1
0000158253	INCL-000224-0000-00	0	####	224 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200018000	1
0000158254	INCL-000225-0000-00	0	####	225 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200006000	1
0000158255	INCL-000230-0000-00	0	####	230 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200017000	1
0000000000	INCL-000233-0000-01	0	####	12378 INCLINE DRIVE	AUBURN	CA	95603	S	3	RE	100	101200007000	1
0000158258	INCL-000236-0000-00	0	####	236 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200016000	1
0000158257	INCL-000239-0000-00	0	####	239 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200008000	1
0000158259	INCL-000244-0000-02	0	####	244 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200015000	1
0000158260	INCL-000245-0000-02	0	####	245 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200009000	1
0000158261	INCL-000252-0000-02	0	####	252 INCLINE DR	COLFAX	CA	95713	S	3	RE	100	101200014000	1
0000158307	IOWH-000100-0000-00	0	####	100 IOWA HILL RD	COLFAX	CA	95713	SO	3	RE	100	101091001000	1
0000158108	JAY -000255-0000-00	0	####	255 JAY STREET	COLFAX	CA	95713	S	3	RE	100	006030056000	1
0000158020	JEFF-000245-0000-00	0	####	245 JEFFERY PLACE	COLFAX	CA	95713	S	3	RE	100	006112018000	1
0000158021	JEFF-000255-0000-00	0	####	255 JEFFERY PL	COLFAX	CA	95713	S	3	RE	100	006112064000	1
0000158022	JEFF-000258-0000-00	0	####	258 JEFFERY PL	COLFAX	CA	95713	S	3	RE	100	006112014000	1
0000158101	KNEE-000033-0000-00	0	####	3452 N 675 E	NORTH OGD	UT	84414	S	3	RE	100	006064009000	1
0000157964	LINC-000029-0000-00	0	####	29 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006093005000	1
0000157965	LINC-000033-0000-03	0	####	33 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006093004000	1
0000157972	LINC-000038-0000-00	0	####	38 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006131005000	1
0000157966	LINC-000039-0000-00	0	####	39 LINCOLN ST	COLFAX	CA	95713	S	3	RE	180	006093014000	1.8
0000157967	LINC-000043-0000-00	0	####	43 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006093012000	1
0000157958	LINC-000047-0000-00	0	####	47 LINCOLN STREET	COLFAX	CA	95713	S	3	RE	100	006093015000	1
0000157973	LINC-000048-0000-00	0	####	48 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006131003000	1
0000157961	LINC-000052-0000-00	0	####	52 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006131010000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157962	LINC-000058-0000-00	0	####	58 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006131012000	1
0000157968	LINC-000112-0001-00	0	####	112 LINCOLN ST	COLFAX	CA	95713	S	3	RE	100	006122001000	1
0000157903	MAIN-000006-0000-03	0	####	6 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006067010000	1
0000157904	MAIN-000010-0000-00	0	####	10 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006067009000	1
0000157909	MAIN-000030-0000-02	0	####	30 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006067006000	1
0000000000	MAIN-000038-0000-00	0	####	38 N MAIN ST	COLFAX	CA	95713	S	3	RE	300	006067004000	3
0000158123	MAIN-000214-0000-00	0	####	214 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022013000	1
0000158181	MAIN-000222-0000-00	0	####	222 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022012000	1
0000158180	MAIN-000302-0000-00	0	####	302 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022008000	1
0000158179	MAIN-000314-0000-00	0	####	314 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022007000	1
0000158178	MAIN-000334-0000-00	0	####	334 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022006000	1
0000170188	MAIN-000348-0000-00	0	####	348 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006022005000	1
0000158166	MAIN-000354-0000-00	0	####	354 N MAIN ST	COLFAX	CA	95713	S	3	RE	260	006022004000	2.6
0000158168	MAIN-000406-0000-00	0	####	406 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006010017000	1
0000158176	MAIN-000454-0000-00	0	####	454 N MAIN ST	COLFAX	CA	95713	S	3	RE	100	006010020000	1
0000157930	MAIS-000121-0002-00	0	####	121 S MAIN ST	COLFAX	CA	95713	S	3	RE	100	006091007000	1
0000157932	MAIS-000133-0000-00	0	####	133 S MAIN ST	COLFAX	CA	95713	S	3	RE	100	006091042000	1
0000157963	MAIS-000300-0000-00	0	####	300 S MAIN ST	COLFAX	CA	95713	S	3	RE	100	006093006000	1
0000158042	MAIS-000451-0000-00	0	####	451 S MAIN ST	COLFAX	CA	95713	S	3	RE	100	006132016000	1
0000158342	MARE-000121-0000-02	0	####	121 E MARVIN STREET	COLFAX	CA	95713	S	3	RE	100	006074009000	1
0000170155	MARE-000241-0000-00	0	####	241 E MARVIN STREET	COLFAX	CA	95713	S	3	RE	100	006076021000	1
0000168204	MARV-000201-0002-00	0	####	201 MARVIN AVE	COLFAX	CA	95713	S	3	RE	100	006076013000	1
0000158334	MARV-000204-000A-00	0	####	204 MARVIN AVE # A	COLFAX	CA	95713	S	3	RE	100	006075005000	1
0000158341	MARV-000204-000B-00	0	####	204 MARVIN AVE # B	COLFAX	CA	95713	S	3	RE	100	006075005000	1
0000158340	MARV-000210-0000-00	0	####	210 MARVIN AVE	COLFAX	CA	95713	S	3	RE	100	006075004000	1
0000158375	MARV-000211-0000-00	0	####	211 MARVIN AVE	COLFAX	CA	95713	S	3	RE	100	006076002000	1
0000158184	MINC-000103-0000-00	0	####	103 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260045000	1
0000158190	MINC-000106-0000-02	0	####	106 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260049000	1
0000158188	MINC-000107-0001-00	0	####	107 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260043000	1
0000000000	MINC-000109-0000-00	0	####	109 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260042000	1
0000158189	MINC-000111-0000-00	0	####	111 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260041000	1
0000169422	MINC-000113-0001-00	0	####	113 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260040000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	MINC-000114-0000-00	0	####	114 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260052000	1
0000158192	MINC-000115-0002-00	0	####	115 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260039000	1
0000158193	MINC-000116-0001-00	0	####	116 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260053000	1
0000158194	MINC-000117-0001-00	0	####	117 MINK CREEK DR	COLFAX	CA	95713	S	3	RE	100	100260038000	1
0000000000	MOON-000530-0000-00	0	####	530 MOONRISE LN	COLFAX	CA	95713	SO	3	RE	100	101161038000	1
0000000000	MOON-000560-0000-00	0	####	560 MOONRISE LN	COLFAX	CA	95713	SO	3	RE	100	101161039000	1
0000000000	MOON-000570-0000-00	0	####	570 MOONRISE LN	COLFAX	CA	95713	SO	3	RE	100	101161040000	1
0000158034	NEWM-000017-0000-00	0	####	17 NEWMAN ST	COLFAX	CA	95713	S	3	RE	100	006092016000	1
0000158033	NEWM-000021-0000-00	0	####	21 NEWMAN ST	COLFAX	CA	95713	S	3	RE	100	006092015000	1
0000158032	NEWM-000033-0000-00	0	####	33 NEWMAN ST	COLFAX	CA	95713	S	3	RE	100	006092008000	1
0000158031	NEWM-000040-0000-00	0	####	40 NEWMAN ST	COLFAX	CA	95713	S	3	RE	100	006093013000	1
0000158339	NORS-000011-0000-00	0	####	11 NORTH STAR AVE	COLFAX	CA	95713	S	3	RE	100	006075003000	1
0000000000	NORS-000024-0000-00	0	####	24 NORTH STAR AVE	COLFAX	CA	95713	S	3	RE	100	006076022000	1
0000000000	NORS-000032-0000-00	0	####	32 NORTH STAR AVE	COLFAX	CA	95713	S	3	RE	100	006076023000	1
0000158373	NORS-000037-0000-00	0	####	37 NORTH STAR AVE	COLFAX	CA	95713	S	3	RE	100	006075007000	1
0000158283	NORS-000323-000A-00	0	####	323 NORTH STAR AVE # A	COLFAX	CA	95713	S	3	RE	100	006143011000	1
0000158378	NOSS-000033-0000-00	0	####	33 S NORTH STAR AVE	COLFAX	CA	95713	S	3	RE	100	006076016000	1
0000158380	NOSS-000045-0000-00	0	####	45 S NORTHSTAR AVE	COLFAX	CA	95713	S	3	RE	100	006076017000	1
0000157939	OAK -000117-0000-00	0	####	117 W OAK STREET	COLFAX	CA	95713	S	3	RE	180	006080012000	1.8
0000158094	OAKE-000004-0000-00	0	####	4 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006101011000	1
0000158098	OAKE-000010-0000-00	0	####	10 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006101009000	1
0000158095	OAKE-000030-0000-00	0	####	30 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006101008000	1
0000158089	OAKE-000034-0000-00	0	####	34 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006101007000	1
08960800-0	OAKE-000041-0000-02	0	####	41 E OAK ST	COLFAX	CA	95713	S	3	RE	980	006102008000	9.8
0000158320	OAKE-000115-0001-02	0	####	115 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006142039000	1
0000158321	OAKE-000125-0000-00	0	####	125 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006142040000	1
0000168203	OAKE-000135-0000-00	0	####	135 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006142045000	1
0000158322	OAKE-000156-0000-00	0	####	156 E OAK ST	COLFAX	CA	95713	S	3	RE	100	006103006000	1
0000158170	OAKH-000101-0000-00	0	####	101 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010013000	1
0000158171	OAKH-000102-0000-00	0	####	102 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010045000	1
0000158173	OAKH-000105-0000-00	0	####	105 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010043000	1
0000158172	OAKH-000108-0000-00	0	####	108 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010046000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158174	OAKH-000111-0000-00	0	####	111 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010044000	1
0000158175	OAKH-000139-0000-00	0	####	139 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010039000	1
0000171148	OAKH-000140-0000-02	0	####	140 OAK HILL DR	COLFAX	CA	95713	S	3	RE	100	006010041000	1
0000158228	OAKR-001301-0000-01	0	####	1301/03 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250003000	1.8
0000158223	OAKR-001302-0000-00	0	####	1302/1304 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250001000	1.8
0000158226	OAKR-001305-0000-00	0	####	1305 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250004000	1.8
0000158225	OAKR-001306-0000-00	0	####	1306 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250002000	1.8
0000158229	OAKR-001309-0000-00	0	####	1309 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250005000	1.8
00158231/2	OAKR-001315-0000-01	0	####	1315 & 1317 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250006000	1.8
0000158233	OAKR-001318-0000-00	0	####	1318 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250007000	1
0000158234	OAKR-001319-0000-03	0	####	1319 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250033000	1
0000158235	OAKR-001321-0000-00	0	####	1321 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250032000	1
0000158236	OAKR-001322-0000-01	0	####	1322 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250036000	1
0000158239	OAKR-001323-0000-03	0	####	1323 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250035000	1
0000158239	OAKR-001323-0002-00	0	####	1323 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250035000	1
0000158237	OAKR-001324-0000-00	0	####	1324 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250037000	1
0000158240	OAKR-001325-0001-00	0	####	1325 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250034000	1
0000158238	OAKR-001326-0000-00	0	####	1326 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	180	100250011000	1.8
0000158241	OAKR-001329-0000-00	0	####	1329 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250039000	1
0000000000	OAKR-001330-0000-02	0	####	1330 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250042000	1
0000158242	OAKR-001331-0000-00	0	####	1331 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250038000	1
0000000000	OAKR-001332-0000-00	0	####	1332 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250043000	1
0000158243	OAKR-001333-0000-00	0	####	1333 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250041000	1
0000169372	OAKR-001334-0000-00	0	####	1334 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250044000	1
0000158244	OAKR-001335-0000-00	0	####	1335 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250040000	1
0000000000	OAKR-001336-0000-00	0	####	1336 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250045000	1
0000170410	OAKR-001340-0000-00	0	####	1340 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250046000	1
0000170341	OAKR-001342-0000-00	0	####	1342 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250047000	1
0000170407	OAKR-001348-0001-00	0	####	1348 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250048000	1
0000000000	OAKR-001350-0000-00	0	####	1350 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250049000	1
0000170282	OAKR-001356-0000-00	0	####	1356 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250050000	1
0000170572	OAKR-001358-0000-00	0	####	1358 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250051000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000160853	OAKR-001360-0000-00	0	####	1360 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250052000	1
0000000000	OAKR-001362-0001-00	0	####	1362 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250053000	1
0000000000	OAKR-001364-0001-00	0	####	1364 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250054000	1
0000170282	OAKR-001366-0000-00	0	####	1366 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250055000	1
0000170751	OAKR-001368-0002-00	0	####	1368 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250056000	1
0000170781	OAKR-001370-0000-00	0	####	1370 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250057000	1
0000170875	OAKR-001372-0000-01	0	####	1372 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250058000	1
0000000000	OAKR-001374-0000-00	0	####	1374 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250059000	1
0000000000	OAKR-001376-0000-00	0	####	1376 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250060000	1
0000170963	OAKR-001378-0000-02	0	####	1378 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250061000	1
0000170921	OAKR-001380-0001-00	0	####	1380 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250062000	1
0000171232	OAKR-001382-0000-00	0	####	1382 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250063000	1
0000171235	OAKR-001384-0000-00	0	####	1384 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250064000	1
0000171236	OAKR-001386-0000-00	0	####	1386 OAK RIDGE DR	SAN DIEGO	CA	92109	S	3	RE	100	100250065000	1
0000171465	OAKR-001388-0000-00	0	####	1388 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250066000	1
0000000000	OAKR-001390-0001-00	0	####	1390 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250067000	1
0000171466	OAKR-001392-0000-00	0	####	1392 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250068000	1
0000171694	OAKR-001393-0000-00	0	####	1393 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250071000	1
0000171468	OAKR-001394-0000-02	0	####	1394 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250069000	1
0000171615	OAKR-001395-0002-00	0	####	1395 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250070000	1
0000171695	OAKR-001397-0000-00	0	####	1397 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250073000	1
0000171696	OAKR-001399-0000-00	0	####	1399 OAK RIDGE DR	COLFAX	CA	95713	S	3	RE	100	100250072000	1
0000157931	OAKW-000011-0000-00	0	####	11 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091044000	1
0000158060	OAKW-000012-0000-00	0	####	12 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006092005000	1
0000158059	OAKW-000018-0001-00	0	####	18 W OAK ST	COLFAX	CA	95713	S	3	RE	180	006092014000	1.8
0000158059	OAKW-000022-0001-00	0	####	22 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006092013000	1
0000158070	OAKW-000033-0000-00	0	####	33 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091037000	1
0000172048	OAKW-000041-0000-00	0	####	41 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091036000	1
0000158058	OAKW-000044-0000-00	0	####	44 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006092003000	1
0000158061	OAKW-000045-0000-00	0	####	45 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091019000	1
0000158062	OAKW-000049-0000-01	0	####	49 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091027000	1
0000158057	OAKW-000054-0000-00	0	####	54 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006092002000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157925	OAKW-000055-0000-00	0	####	55 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006091017000	1
0000158056	OAKW-000058-0000-00	0	####	58 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006092001000	1
0000157937	OAKW-000104-0000-00	0	####	104 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112038000	1
0000157938	OAKW-000111-0000-00	0	####	111 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080011000	1
0000157942	OAKW-000121-0000-00	0	####	121 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080013000	1
0000157934	OAKW-000124-0000-00	0	####	124 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112035000	1
0000157944	OAKW-000129-0000-00	0	####	129 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080014000	1
0000157946	OAKW-000131-0000-00	0	####	131 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080026000	1
0000157940	OAKW-000134-0000-00	0	####	134 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112032000	1
0000157941	OAKW-000144-0000-00	0	####	144 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112031000	1
0000157943	OAKW-000150-0000-00	0	####	150 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112030000	1
0000158068	OAKW-000201-0000-00	0	####	201 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080025000	1
0000157945	OAKW-000202-0000-00	0	####	202 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112068000	1
0000158067	OAKW-000205-0000-02	0	####	205 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080033000	1
0000158065	OAKW-000211-0000-00	0	####	211 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080032000	1
0000158018	OAKW-000216-0001-00	0	####	216 W OAK ST	COLFAX	CA	95713	S	3	RE	340	006112026000	3.4
0000158066	OAKW-000222-0000-00	0	####	222 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006112025000	1
0000158064	OAKW-000233-0000-00	0	####	233 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080017000	1
0000158063	OAKW-000239-0000-00	0	####	239 W OAK ST	COLFAX	CA	95713	S	3	RE	100	006080035000	1
0000158151	PAHE-000301-0000-00	0	####	301 E PARK HILL DRIVE	COLFAX	CA	95713	S	3	RE	100	006030040000	1
0000000000	PICR-001140-0000-00	0	####	1140 PINECROFT RD	COLFAX	CA	95713	SO	3	RE	100	100130037000	1
0000000000	PICR-001170-0000-00	0	####	1170 PINECROFT RD	COLFAX	CA	95713	SO	3	RE	100	100130063000	1
0000158047	PINE-000205-0000-00	0	####	205 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112006000	1
0000158052	PINE-000212-0000-00	0	####	212 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112044000	1
0000158051	PINE-000215-0001-00	0	####	215 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112007000	1
0000158050	PINE-000222-0000-00	0	####	222 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112008000	1
0000158048	PINE-000230-0000-00	0	####	230 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112046000	1
0000158049	PINE-000246-0000-00	0	####	246 PINE CT	COLFAX	CA	95713	S	3	RE	100	006112045000	1
0000157953	PINS-000101-0002-00	0	####	101 PINE ST	COLFAX	CA	95713	S	3	RE	100	006112058000	1
0000157954	PINS-000107-0000-00	0	####	107 PINE ST	COLFAX	CA	95713	S	3	RE	100	006112039000	1
0000157955	PINS-000121-0000-02	0	####	121 PINE ST	COLFAX	CA	95713	S	3	RE	100	006112067000	1
0000157956	PINS-000133-0000-02	0	####	133 PINE ST	COLFAX	CA	95713	S	3	RE	100	006112060000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000157957	PINS-000145-0000-00	0	####	145 PINE ST	COLFAX	CA	95713	S	3	RE	100	006112002000	1
0000158055	PINS-000155-0000-00	0	####	155 PINE ST	COLFAX	CA	95713	S	3	RE	180	006112063000	1.8
0000157951	PINS-000300-0000-00	0	####	300 PINE ST	COLFAX	CA	95713	S	3	RE	100	006093017000	1
0000158053	PINS-000333-0000-00	0	####	333 PINE ST	COLFAX	CA	95713	S	3	RE	100	006121005000	1
0000158054	PINS-000999-0000-00	0	####	999 PINE ST	COLFAX	CA	95713	S	3	RE	100	100240013000	1
0000158109	PLEA-000102-0000-03	0	####	102 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030021000	1
0000158112	PLEA-000110-0000-00	0	####	110 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030010000	1
0000158117	PLEA-000120-0000-00	0	####	120 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030046000	1
0000158118	PLEA-000130-0000-00	0	####	130 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030054000	1
0000158119	PLEA-000140-0001-00	0	####	140 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030053000	1
0000158127	PLEA-000150-0000-00	0	####	150 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030006000	1
0000158128	PLEA-000200-0000-00	0	####	200 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006030039000	1
0000158129	PLEA-000230-0000-00	0	####	230 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021009000	1
0000158140	PLEA-000240-0000-00	0	####	240 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021004000	1
0000158143	PLEA-000250-0000-00	0	####	250 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021008000	1
0000158144	PLEA-000300-0000-00	0	####	300 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021007000	1
0000158145	PLEA-000310-0000-00	0	####	310 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021006000	1
0000000000	PLEA-000316-0000-00	0	####	316 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021011000	1
0000158147	PLEA-000320-0000-00	0	####	320 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021012000	1
0000158146	PLEA-000321-0000-00	0	####	321 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006022018000	1
0000158148	PLEA-000329-0000-00	0	####	329 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006022019000	1
0000158155	PLEA-000333-0001-00	0	####	333 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006022001000	1
0000158149	PLEA-000340-0000-00	0	####	340 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021003000	1
0000000000	PLEA-000344-0000-00	0	####	344 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021002000	1
0000158150	PLEA-000350-0001-00	0	####	350 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006021001000	1
0000158156	PLEA-000403-0000-00	0	####	403 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006010036000	1
0000158152	PLEA-000404-0000-00	0	####	404 PLEASANT ST	COLFAX	CA	95713	SO	3	RE	100	100110024000	1
0000170794	PLEA-000415-0000-00	0	####	415 PLEASANT ST	COLFAX	CA	95713	S	3	RE	180	006010035000	1.8
0000158153	PLEA-000424-0000-00	0	####	424 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006010032000	1
0000158154	PLEA-000435-0000-00	0	####	435 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006010007000	1
0000000000	PLEA-000445-0000-00	0	####	445 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006010025000	1
0000000000	PLEA-000455-0000-00	0	####	455 PLEASANT ST	COLFAX	CA	95713	S	3	RE	100	006010051000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	PLEA-000504-0000-00	0	####	504 PLEASANT ST	COLFAX	CA	95713	S	3	RE	180	006010052000	1.8
0000158301	PLUT-000117-0000-00	0	####	117 PLUTES WAY	COLFAX	CA	95713	S	3	RE	100	101132015000	1
898-0700-0	PNTO-000100-0000-00	0	####	100 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190001000	3.4
898-0700-0	PNTO-000200-0000-00	0	####	200 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190002000	3.4
898-0700-0	PNTO-000300-0002-00	0	####	300 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190003000	3.4
898-0700-0	PNTO-000400-0000-00	0	####	400 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190004000	3.4
898-0700-0	PNTO-000500-0001-00	0	####	500 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190005000	3.4
898-0700-0	PNTO-000600-0000-02	0	####	600 PINETOP CIR	COLFAX	CA	95713	S	3	RE	100	101190006000	1
898-0700-0	PNTO-000700-0000-00	0	####	700 PINETOP CIR	COLFAX	CA	95713	S	3	RE	420	101190007000	4.2
898-0700-0	PNTO-000800-0000-00	0	####	800 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190008000	3.4
898-0700-0	PNTO-000900-0000-00	0	####	900 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190009000	3.4
898-0700-0	PNTO-001000-0002-00	0	####	1000 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190010000	3.4
898-0700-0	PNTO-001100-0000-01	0	####	1100 PINETOP CIR	COLFAX	CA	95713	S	3	RE	340	101190011000	3.4
0000158116	POUN-000035-0000-00	0	####	35 POUNDS CT	COLFAX	CA	95713	S	3	RE	100	006041004000	1
0000158114	POUN-000045-0000-02	0	####	45 POUNDS CT	COLFAX	CA	95713	S	3	RE	100	006041005000	1
0000158115	POUN-000055-0001-00	0	####	55 POUNDS CT	COLFAX	CA	95713	S	3	RE	100	006041006000	1
0000157927	QUIN-000046-0001-00	0	####	46 QUINNS LN	COLFAX	CA	95713	S	3	RE	100	006091028000	1
0000172607	QUIN-000054-0000-01	0	####	54 QUINNS LN	COLFAX	CA	95713	S	3	RE	100	006091035000	1
0000158001	QUIN-000121-0000-02	0	####	121 QUINNS LN	COLFAX	CA	95713	S	3	RE	100	006080047000	1
0000158000	QUIN-000125-0000-00	0	####	125 QUINNS LN	COLFAX	CA	95713	S	3	RE	100	006080029000	1
898-1900-0	RAIL-000247-0000-02	0	####	247 RAILROAD AVE	COLFAX	CA	95713	S	3	RE	300	006093021000	3
0000158080	RAIS-000022-0001-00	0	####	22 S RAILROAD STREET	COLFAX	CA	95713	S	3	RE	100	006072007000	1
0000172558	RAIS-000153-0000-03	0	####	153 S RAILROAD STREET	COLFAX	CA	95713	S	3	RE	100	006131009000	1
0000157991	RISS-000001-0000-00	0	####	1/3 RISING SUN RD	COLFAX	CA	95713	S	3	RE	180	006062010000	1.8
0000157878	RISS-000012-0000-00	0	####	12 RISING SUN RD	COLFAX	CA	95713	S	3	RE	100	006063001000	1
0000000000	RISS-000224-0000-02	0	####	224 RISING SUN RD	COLFAX	CA	95713	S	3	RE	100	006080041000	1
0000171773	RISS-000230-0000-00	0	####	230 RISING SUN RD	COLFAX	CA	95713	S	3	RE	100	006080042000	1
0000157960	ROSE-000310-0000-02	0	####	310 ROSE AVE	COLFAX	CA	95713	S	3	RE	100	006131013000	1
0000157959	ROSE-000333-0000-00	0	####	333 ROSE AVE	COLFAX	CA	95713	S	3	RE	100	006122002000	1
0000158035	ROSE-000401-0000-00	0	####	401 ROSE AVE	COLFAX	CA	95713	S	3	RE	100	006121003000	1
0000158046	ROSE-000452-0000-00	0	####	452 ROSE AVE	COLFAX	CA	95713	S	3	RE	100	006132015000	1
0000158103	SAUN-000122-0000-00	0	####	122 SANDERS LN	COLFAX	CA	95713	S	3	RE	100	006030011000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158105	SAUN-000127-0000-00	0	####	127 SANDERS LN	COLFAX	CA	95713	S	3	RE	100	006030012000	1
0000157917	SCHA-000120-0000-00	0	####	120 SCHOOL HOUSE ALLEY	COLFAX	CA	95713	S	3	RE	100	006042004000	1
0000157918	SCHO-000034-0000-02	0	####	34 SCHOOL ST	COLFAX	CA	95713	S	3	RE	100	006041003000	1
0000158121	SCHO-000044-0000-00	0	####	44 SCHOOL ST	COLFAX	CA	95713	S	3	RE	180	006041002000	1.8
0000170306	SCHO-000054-0000-00	0	####	54 SCHOOL ST	COLFAX	CA	95713	S	3	RE	100	006041001000	1
0000158028	SHOL-000123-0000-00	0	####	123 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112034000	1
0000158029	SHOL-000124-0000-00	0	####	124 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112066000	1
0000158026	SHOL-000130-0000-00	0	####	130 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112065000	1
0000158027	SHOL-000135-0000-00	0	####	135 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112033000	1
0000158025	SHOL-000136-0000-00	0	####	136 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112055000	1
0000158024	SHOL-000140-0000-00	0	####	140 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112015000	1
0000170693	SHOL-000145-0000-00	0	####	145 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112028000	1
0000171155	SHOL-000147-0000-00	0	####	147 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112069000	1
0000158023	SHOL-000148-0000-00	0	####	148 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112016000	1
0000158019	SHOL-000230-0000-00	0	####	230 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112043000	1
0000158017	SHOL-000232-0000-00	0	####	232 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112048000	1
0000158016	SHOL-000234-0001-00	0	####	234 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112047000	1
0000170408	SHOL-000235-0000-00	0	####	235 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112024000	1
0000158015	SHOL-000236-0000-00	0	####	236 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112042000	1
0000158014	SHOL-000240-0000-02	0	####	240 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	180	006112020000	1.8
0000158012	SHOL-000241-0000-00	0	####	241 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112023000	1
0000158011	SHOL-000248-0000-00	0	####	248 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112021000	1
0000158010	SHOL-000251-0000-00	0	####	251 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	006112022000	1
0000169621	SHOL-000424-0000-00	0	####	424 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	100130056000	1
0000171492	SHOL-000434-0000-00	0	####	434 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	100130055000	1
0000158009	SHOL-000444-0000-00	0	####	444 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	100130050000	1
0000158008	SHOL-000448-0000-00	0	####	448 SCHOLTZ AVE	COLFAX	CA	95713	S	3	RE	100	100130052000	1
0000157986	SUNC-000005-0000-00	0	####	5 SUNSET CIR	COLFAX	CA	95713	S	3	RE	180	006061022000	1.8
0000157985	SUNC-000021-0000-00	0	####	21 SUNSET CIR	COLFAX	CA	95713	S	3	RE	100	006061021000	1
0000157984	SUNC-000033-0000-00	0	####	33 SUNSET CIR	COLFAX	CA	95713	S	3	RE	100	006061020000	1
896-1200-0	SUNR-000040-0000-00	0	####	40 SUNRISE AVE	COLFAX	CA	95713	S	3	RE	580	006075002000	5.8
0000158371	SUNR-000074-0000-00	0	####	74 SUNRISE AVE	COLFAX	CA	95713	S	3	RE	100	006045006000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000158370	SUNR-000088-0000-00	0	####	88 SUNRISE AVE	COLFAX	CA	95713	S	3	RE	100	006045006000	1
0000158372	SUNR-000210-0000-00	0	####	210 SUNRISE AVE	COLFAX	CA	95713	S	3	RE	100	006044007000	1
0000158362	SUNR-000242-0002-00	0	####	242 SUNRISE AVE	COLFAX	CA	95713	S	3	RE	100	006044003000	1
0000157982	SUNS-000010-0000-03	0	####	10 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006053008000	1
0000157983	SUNS-000011-0000-02	0	####	11 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006051003000	1
0000157981	SUNS-000020-0000-02	0	####	20 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006053006000	1
0000157979	SUNS-000021-0000-00	0	####	21 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006051005000	1
0000157980	SUNS-000030-0000-00	0	####	30 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006053002000	1
0000157978	SUNS-000033-0000-00	0	####	33 SUNSET AVE	COLFAX	CA	95713	S	3	RE	100	006051006000	1
0000000000	TREA-000151-0002-00	0	####	151 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260013000	1
0000158214	TREA-000153-0001-00	0	####	153 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260014000	1
0000158211	TREA-000157-0001-00	0	####	157 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260016000	1
0000158212	TREA-000158-0001-00	0	####	158 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260012000	1
0000158210	TREA-000159-0000-00	0	####	159 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260017000	1
0000158208	TREA-000160-0000-00	0	####		COLFAX	CA	95713	S	3	RE	100	100260011000	1
0000158207	TREA-000164-0001-00	0	####	164 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260009000	1
0000170307	TREA-000165-0001-00	0	####	165 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260029000	1
0000158201	TREA-000172-0000-00	0	####	172 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260005000	1
0000170802	TREA-000174-0000-00	0	####	174 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260004000	1
0000158199	TREA-000175-0002-00	0	####	175 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260033000	1
0000158198	TREA-000176-0000-00	0	####	176 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260003000	1
0000168984	TREA-000178-0000-03	0	####	178 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260002000	1
0000158197	TREA-000180-0001-00	0	####	180 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260001000	1
0000158196	TREA-000201-0000-01	0	####	201 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100260035000	1
0000170684	TREA-000207-0001-00	0	####	207 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270001000	1
0000170734	TREA-000209-0000-01	0	####	1075 S AUBURN ST # 56	COLFAX	CA	95713	S	3	RE	100	100270002000	1
0000170618	TREA-000214-0001-00	0	####	214 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270015000	1
0000170372	TREA-000215-0000-02	0	####	215 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270005000	1
0000170353	TREA-000216-0002-00	0	####	216 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270014000	1
0000170657	TREA-000220-0001-00	0	####	220 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270012000	1
0000000000	TREA-000221-0001-00	0	####	221 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270008000	1
0000170677	TREA-000223-0001-00	0	####	223 TREASURTON ST	COLFAX	CA	95713	S	3	RE	100	100270009000	1

Account	LocationID	Status	Name	Address	City	State	Zip	Rate	Bill Code	Class	# of Units	PropTxID	EDU
0000000000	TREF-023615-0000-00	0	####	23615 TREE FARM RD	COLFAX	CA	95713	SO	3	RE	100	101161021000	1
0000000000	TREF-023635-0000-00	0	####	23635 TREE FARM RD	COLFAX	CA	95713	SO	3	RE	100	101161033000	1
0000158157	VEDA-000417-0000-00	0	####	417 VEDA LN	COLFAX	CA	95713	S	3	RE	340	006010048000	3.4
0000158357	VIST-000205-0000-01	0	####	205 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006044004000	1
0000158365	VIST-000206-0001-00	0	####	206 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006045002000	1
0000158366	VIST-000212-0000-00	0	####	212 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006045003000	1
0000158367	VIST-000222-0002-00	0	####	222 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006045004000	1
0000158368	VIST-000225-0000-02	0	####	225 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006044011000	1
0000158369	VIST-000232-0000-00	0	####	232 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006045005000	1
0000168205	VIST-000241-0000-01	0	####	241 VISTA AVE	COLFAX	CA	95713	S	3	RE	100	006044010000	1
0000158040	WALN-000010-0000-02	0	####	10 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006133002000	1
0000158043	WALN-000021-0000-02	0	####	21 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006132012000	1
0000158039	WALN-000022-0000-00	0	####	22 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006133003000	1
0000158044	WALN-000031-0000-00	0	####	31 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006132013000	1
0000158038	WALN-000036-0001-00	0	####	36 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006133004000	1
0000158045	WALN-000041-0000-00	0	####	41 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006132014000	1
0000158037	WALN-000044-0000-00	0	####	44 WALNUT ST	COLFAX	CA	95713	S	3	RE	100	006133005000	1
0000157969	WASH-000009-0001-00	0	####	9 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006131008000	1
0000158041	WASH-000012-0000-00	0	####	12 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006132011000	1
0000157970	WASH-000021-0000-00	0	####	21 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006131007000	1
0000157971	WASH-000022-0000-00	0	####	22 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006132010000	1
0000157974	WASH-000034-0000-00	0	####	34 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006132003000	1
0000157976	WASH-000041-0000-00	0	####	41 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006131004000	1
0000157975	WASH-000044-0000-00	0	####	PO BOX 273	COLFAX	CA	95713	S	3	RE	100	006132002000	1
0000157977	WASH-000051-0000-00	0	####	51 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006131011000	1
0000158036	WASH-000052-0002-00	0	####	52 WASHINGTON ST	COLFAX	CA	95713	S	3	RE	100	006132001000	1
0000158395	WHIT-000123-0000-00	0	####	123/125 WHITCOMB AVE	COLFAX	CA	95713	S	3	RE	200	100230045000	2
0000169374	WIND-000103-0002-00	0	####	103 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260019000	1
0000158218	WIND-000107-0000-00	0	####	107 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260021000	1
0000158219	WIND-000109-0000-00	0	####	109 WINDER RD	COLFAX	CA	95713	S	3	RE	100	100260022000	1
0000000000	BENT-024825-0000-00	0	####	24825 BEN TAYLOR RD	COLFAX	CA	95713	SO	3	SC	1200	100120050000	12
0000000000	BENT-024995-0000-00	0	####	24995 BEN TAYLOR RD	COLFAX	CA	95713	SO	3	SC	4630	100120028000	46.3

APPENDIX B

TECHNICAL MEMORANDUM

WET WEATHER HYDROGRAPHS AND DESIGN STORM (NEXGEN UTILITY MANAGEMENT)

TECHNICAL MEMORANDUM

City of Colfax
Topic: SECAP Analysis – Wet Weather Hydrographs and Design Storm

PREPARED FOR: Jim Fletter, P.E. Ponticello Engineering

PREPARED BY: Dan Rich, P.E., NEXGEN Utility Management

COPIES:

DATE: June 17, 2010

1 Introduction

In May 2006, the California State Water Resources Control Board issued Order No. 2006-0003, *Statewide General Waste Discharge Requirements for Sanitary Sewer Systems*. The waste discharge requirements (WDRs) require that all entities that own or operate sewer systems over one mile in length must create a Sewer System Management Plan (SSMP) by certain deadlines established within the Order.

This technical memorandum (TM) addresses the portion of the SSMP called the System Evaluation and Capacity Assurance Plan (SECAP) for the City of Colfax (City). The SECAP requires that "key sanitary sewer system elements" be analyzed for capacity at the "appropriate design storm or wet weather event".

The City has also entered into a settlement agreement with a group of plaintiffs which includes obligations that must be fulfilled relative to the sewer collection system operation. This TM also provides wet weather flow projections (also referred to as hydrographs) requested in that agreement.

Therefore, this TM serves the following purposes:

1) Establishes a rain-dependent infiltration and inflow (RDII) prediction methodology

2) "Calibrates" a hydrograph pattern for existing wet weather events

3) Establishes methodology for and presents a relevant design storm for the City of Colfax's SECAP analysis

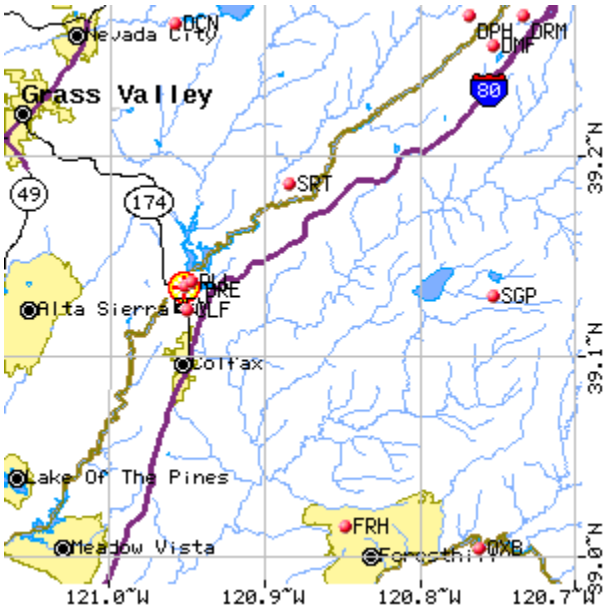
4) Applies a design storm conditions to predict a design storm hydrograph at the wastewater treatment plant (WWTP) for use in the hydraulic capacity assessment as required by the WDRs

2 Wet Weather Events and Wastewater Flow Monitoring

Wastewater flow for the entire system is measured at the wastewater treatment plant (WWTP). Hourly flow data at the WWTP from January 15 through June 3, 2009 was analyzed for this report. The data from 2009, rather than 2010, was utilized for consistency with the *City of Colfax Infiltration and Inflow Study – 2008-2009 Interim Results - DRAFT* (ECO:LOGIC, July 2009).

Hourly rainfall data for the same time period was downloaded from the California Data Exchange Center (CDEC) web site (http://cdec.water.ca.gov/) for the rain gauge located at Bear River at Rollins Reservoir (Latitude: 39.133, Longitude: -120.953). A map showing the approximate rain gauge location is included as Figure 1 below.

FIGURE 1 – APPROXIMATE LOCATION OF BEAR RIVER AT ROLLINS RESERVOIR RAIN GAUGE (LATITUDE: 39.133, LONGITUDE: -120.953)



Two wet weather events were analyzed to develop the RTK hydrographs (described in Section 3 below). These events, rainfall totals, and approximate durations and return periods are shown in Table 1 below (excerpted from the *City of Colfax Infiltration and Inflow Study – 2008-2009 Interim Results - DRAFT* (ECO:LOGIC, July 2009).

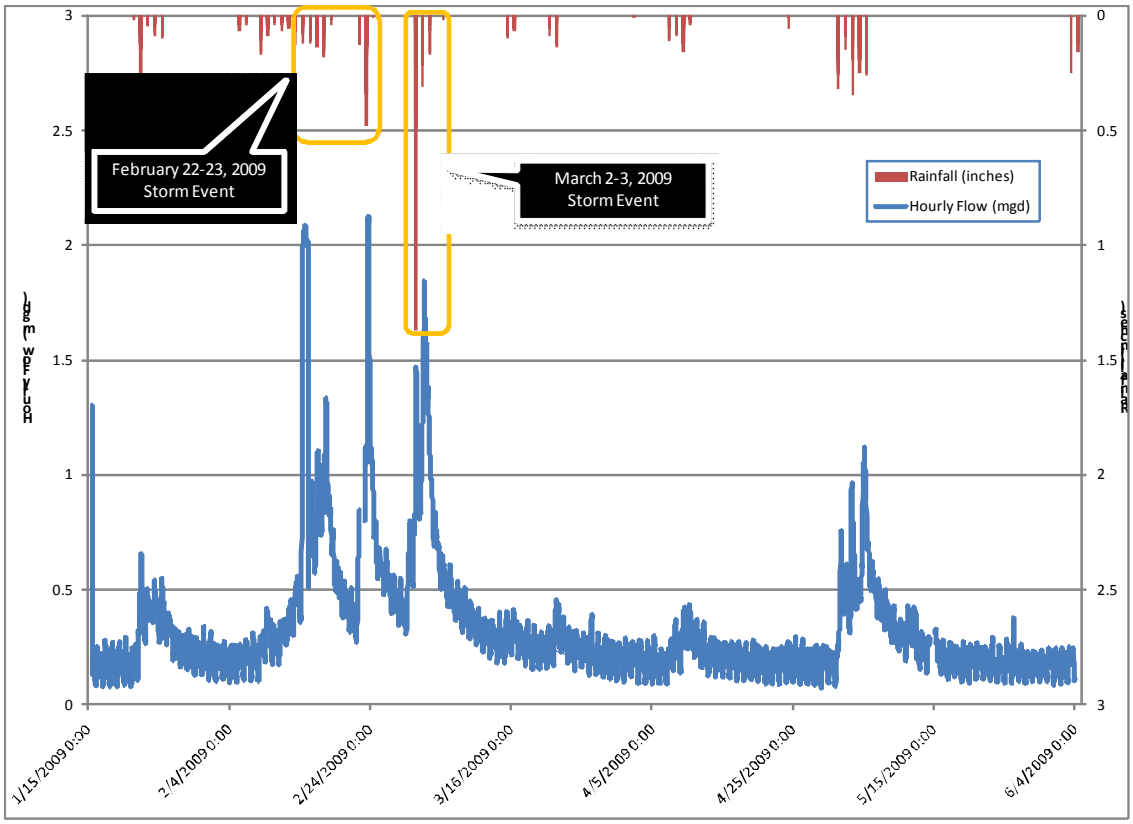
TABLE 1. RAINFALL EVENT CHARACTERISTICS (A)

Rainfall Event	**Total Rainfall (inches)**	**Approximate Duration and Return Period**
February 22-23, 2009	4.05	2 days, 2 years
March 2-3, 2009	5.93	2 days, 5 years

(A) Excerpted from the *City of Colfax Infiltration and Inflow Study – 2008-2009 Interim Results - DRAFT* (ECO:LOGIC, July 2009)

Flow and rainfall data for the monitoring period are shown in Figure 2 below. The rainfall events that were analyzed in this TM are also highlighted.

FIGURE 2 – WASTEWATER TREATMENT PLANT FLOW AND RAINFALL DATA



3 RDII Prediction: Synthetic Unit Hydrograph Development (RTK Method)

The first step to determining the impact of a design storm on a wastewater collection system is to establish a reliable means of estimating the amount of rain-dependent infiltration and inflow (RDII) that enters the system during differently sized storm events.

An analysis of methods for analyzing and predicting RDII in sewer system was completed by the EPA and summarized in *Computer Tools for Sanitary Sewer System Capacity Analysis and Planning* (EPA, October 2007). The document recommends the synthetic unit hydrograph method (or RTK method) as a reliable approach for predicting RDII in sewer systems. The RTK method is widely used for this type of analysis, is flexible, and can account for system response hydrograph timing and shape. It can also be used to estimate RDII reduction from rehabilitation efforts. Based on the results of the EPA analysis and the use of the EPA software, the SSOAP Toolbox (described in more detail below), the RTK method was used for the analysis and prediction of the City's RDII.

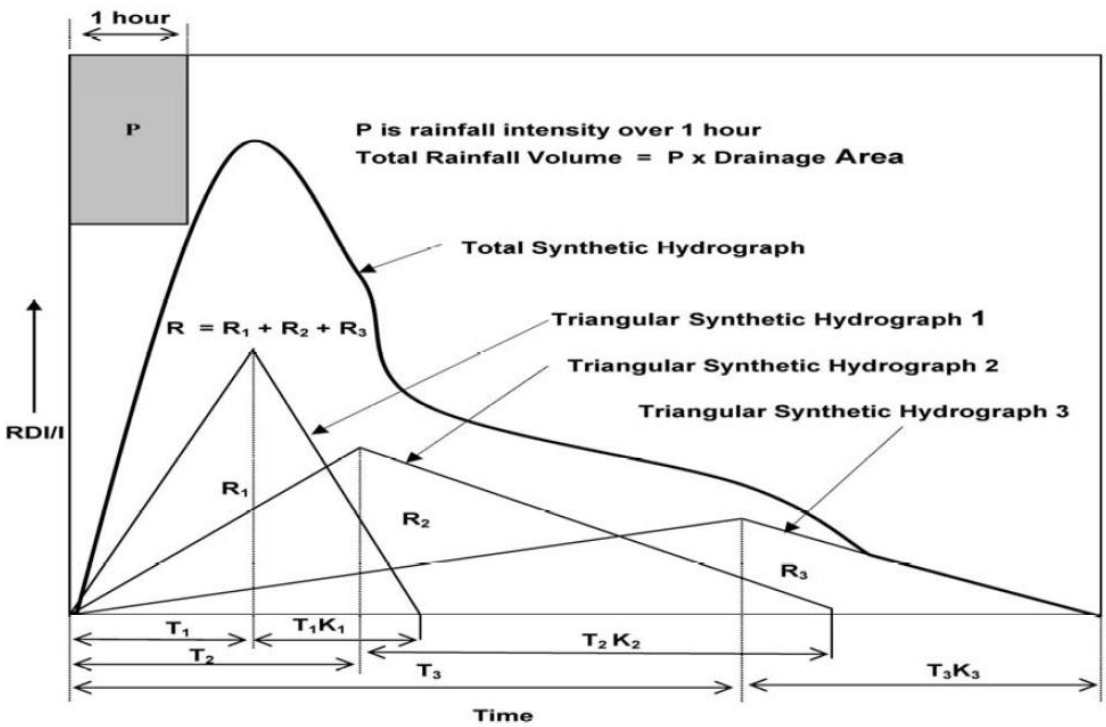
The RTK analysis was completed using the Sanitary Sewer Overflow Analysis and Planning Toolbox (SSOAP Toolbox), software created by the United States Environmental Protection Agency (EPA). The SSOAP Toolbox is used to predict RDII in sewer systems and facilitate capacity analyses.

The RTK method utilizes three unit hydrographs (triangualar in shape) to account for fast, medium, and slow RDII responses. Three factors for each triangular response are modified to help shape the predicted curve to the observed response. These include:

- R-Value: the fraction of rainfall volume entering the sewer system as RDII during and immediately following a storm event
- T: time (hours) to the peak (of the triangular shape)
- K: the ratio of the time of recession to T

Figure 3 shows an example of a hydrograph created using the RTK method. Note the three triangular synthetic hydrographs.

FIGURE 3. SAMPLE HYDROGRAPH CREATED USING "RTK" METHOD



The determined RTK coefficients based on the 2009 Colfax storm and flow data are shown in Table 2 below:

TABLE 2. "CALIBRATED" RTK COEFFICIENTS

Hydrograph	R	T	K
1	0.007	2	3
2	0.0027	5	6
3	0.055	12	28

Figures 4 and 5 show predicted RDII contributions (using the RTK method) at the WWTP compared to monitored flow. The **yellow line** shows flow measured at the WWTP. The **green line** shows the RTK-predicted reponse during the two highlighted storm events. Rainfall is indicated by the **dark blue** horizontal bars at the tops and the **light blue** line at the bottom shows estimated average dry weather flow (ADWF). It should be noted that some measured data during the February 22-23, 2009 storm event was not usable and is shown in Figure 4 as a gap in the green line (monitored flow).

FIGURE 4 – MEASURED AND PREDICTED FLOW RESPONSE DURING MARCH 2-3, 2009 STORM EVENT

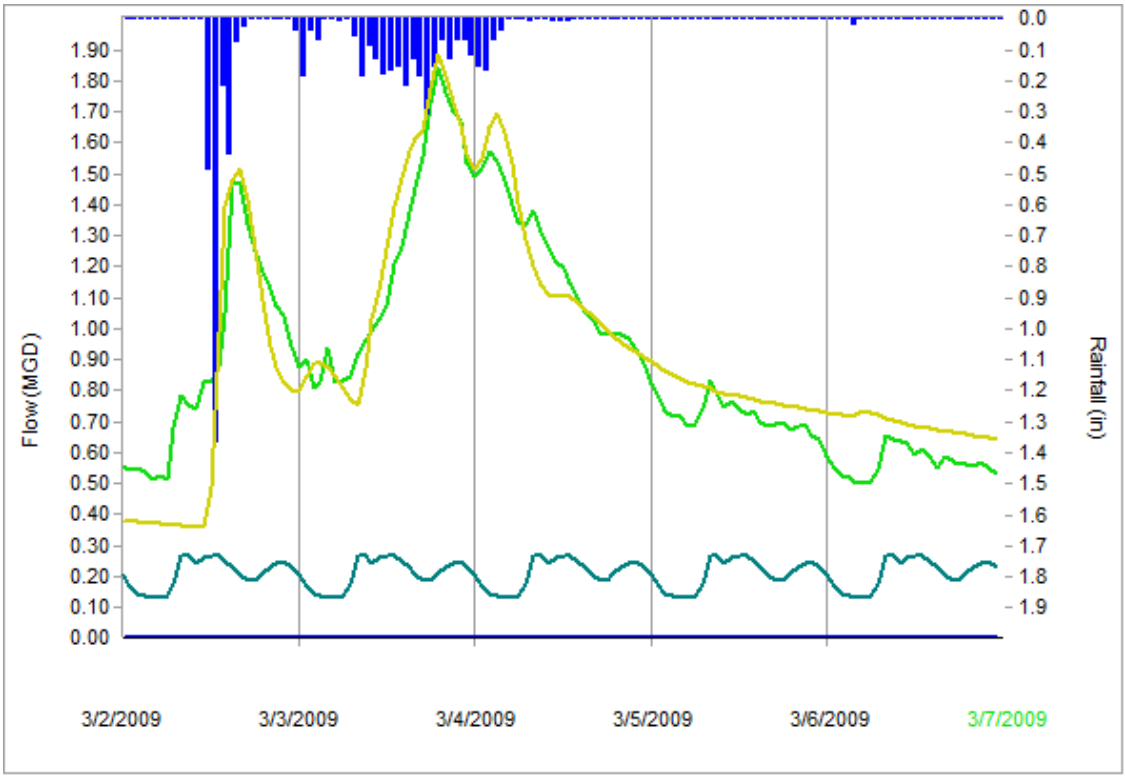
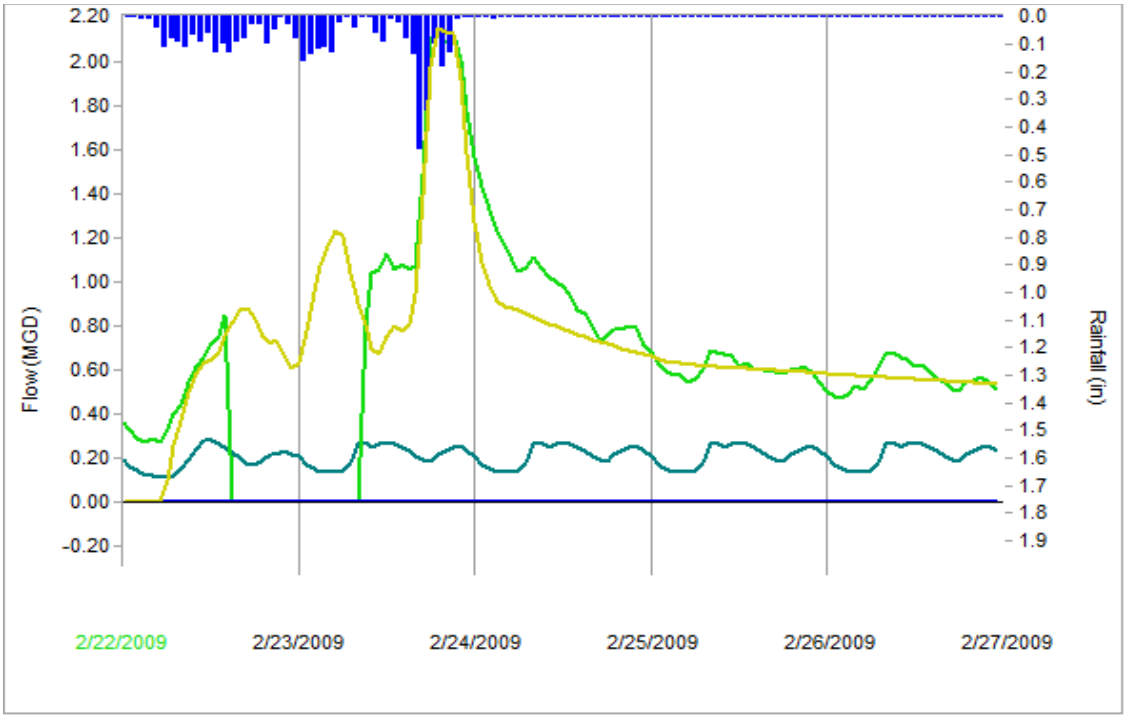


FIGURE 5 – MEASURED AND PREDICTED FLOW RESPONSE DURING FEBRUARY 22-23, 2009 STORM EVENT



Because of the limited amount of rainfall and WWTP flow data, it is recommended that the RTK analysis be refined once more data has been collected.

4 Design Storm

The SECAP requires that wastewater collection systems be analyzed at a design storm or appropriate storm event. This enables the owners/operators of a collection system to define capacity in terms of a single storm depth, duration, frequency, and distribution, or, a relatively set level of service.

The design storm pattern for the City of Colfax was developed using the Sacramento Method as defined in *The City and County of Sacramento Drainage Manual: Volume 2: Hydrology Standards* (City and County of Sacramento, December 1996). This method is commonly used for design storm development in the areas around the City and County of Sacramento.

Design storms are developed from a statistical analysis of local precipitation records. Statistical data for this analysis was downloaded from the California Department of Water Resources, Division of Flood Management, Hydrology Branch web site (http://www.water.ca.gov/floodmgmt/hafoo/csc/climate_data/).

Several communities in the Sacramento area have adopted a 10-year return period design storm goal. The return period (such as 5, 10, or 20-year type events) ultimately selected by the City depends largely on the extent of improvements to the sewer system required to pass these peak events.

Two design storm hydrographs have been described in this TM. A 10-year, 36-hour event and a 10-year, 24-hour event. A duration of 36 hours was selected for the design storm because multiple day rainfall events appear to have a significant flow response. This means that while the City's system shows high levels of inflow(rainwater), it also has a significant infiltration (groundwater) component during rain events that last for several days after rain has ceased. A 10-year, 24-hour event was also developed bacause it is required by the City's settlement agreement.

A 10-year, 36-hour design storm, as developed by the Sacramento Method described above, is shown in Figure 6.

FIGURE 6. 10-YEAR, 36-HOUR DESIGN STORM FOR THE CITY OF COLFAX

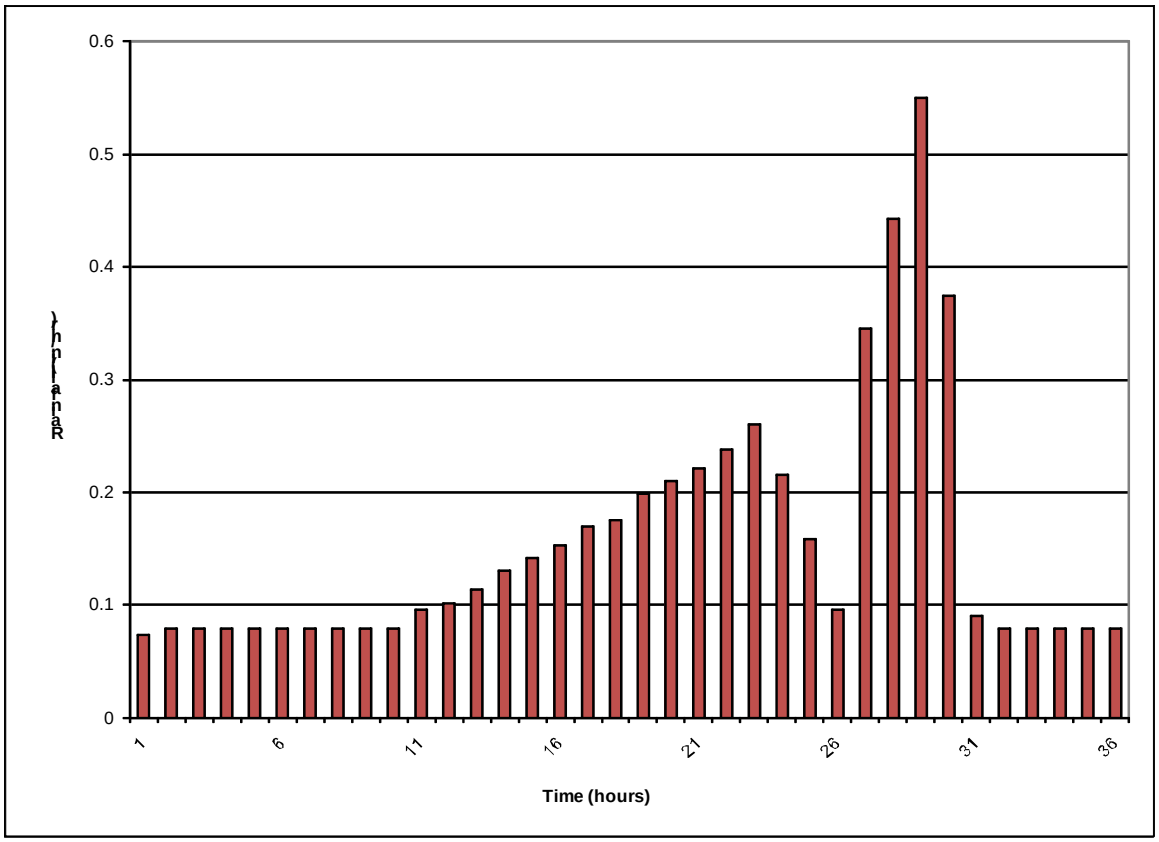
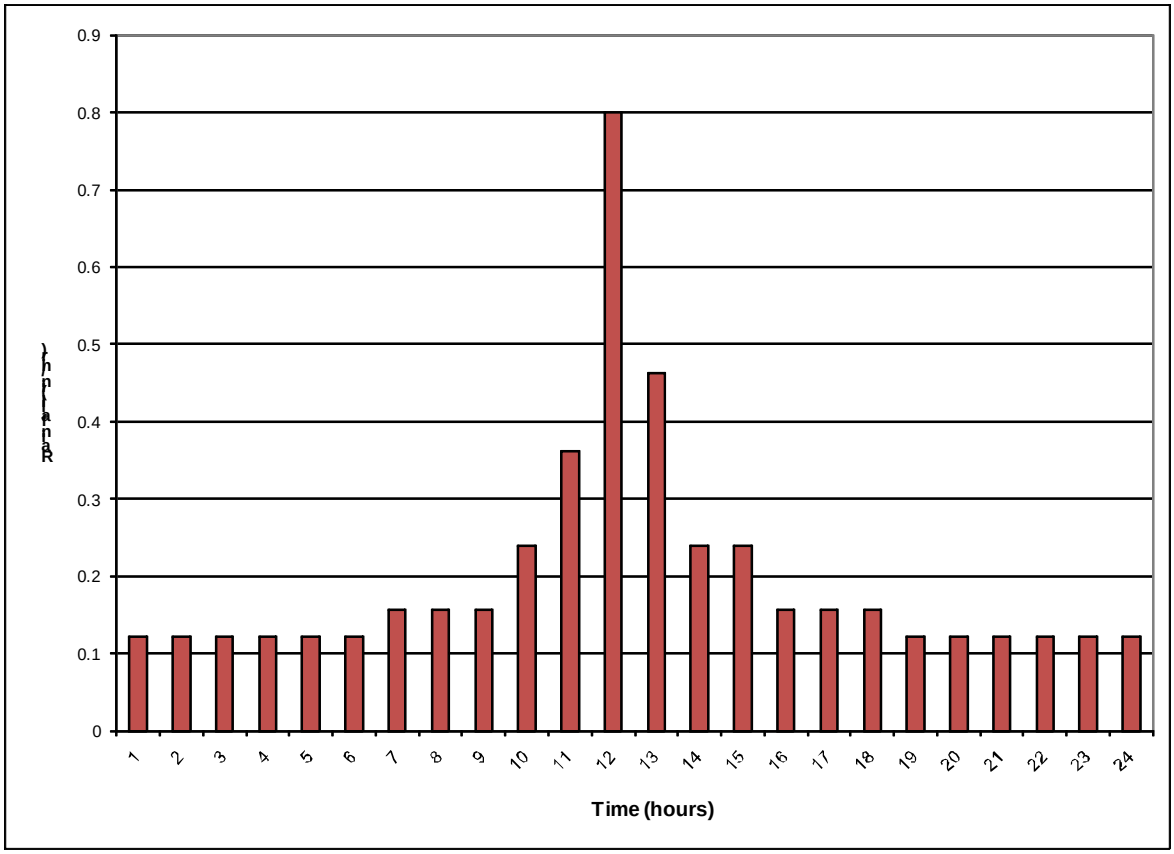


Figure 7 belows shows a 10-year, 24-hour design storm as calculated by the Sacramento Method.

FIGURE 7. 10-YEAR, 24-HOUR DESIGN STORM FOR THE CITY OF COLFAX

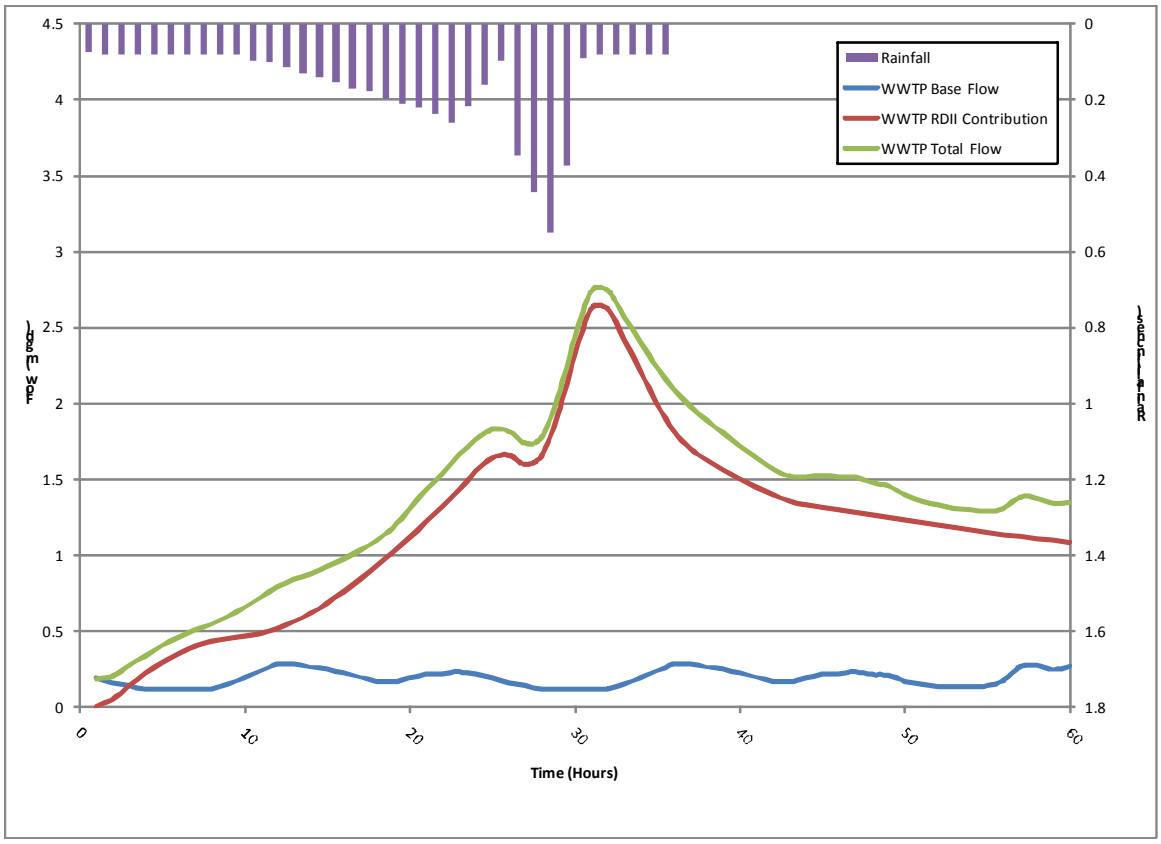


5 Application of Design Storm

A 10-year, 36-hour design storm was applied to the RTK scenario determined in Section 3. The resulting hydrograph showing predicted RDII is included as Figure 8. The figure also shows base flow (wastewater generated by residences and businesses; no RDII) and total flow (base flow plus the RDII component).

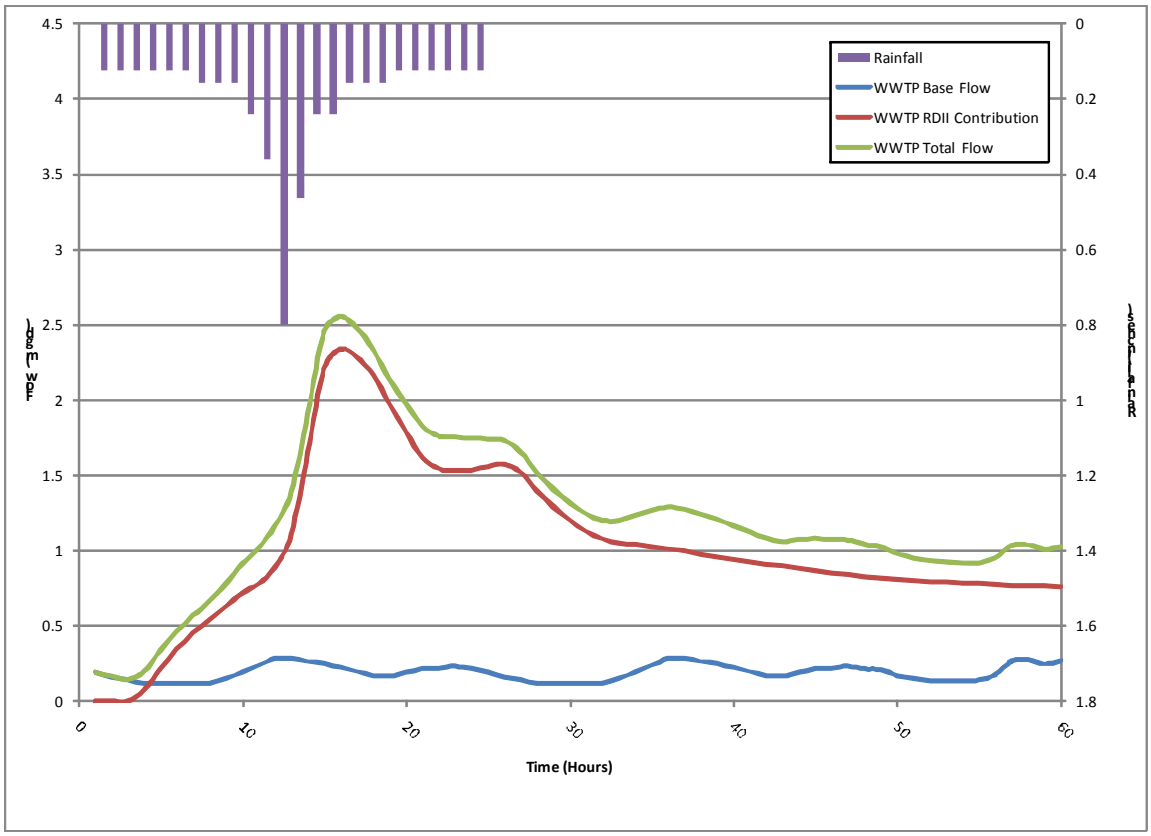
A peak flow of approximately 2.7 mgd is predicted for a 10-year, 36-hour design storm. For comparison, the 2-day, 2-year storm from February 22-23, 2009 generated a peak flow of 2.1 mgd. The March 2-3, 2009 storm event (2-day, 5-year) generated a peak flow of 1.8 mgd. Peak flows varied because of the different sizes and distributions of the two storm events.

FIGURE 8. PREDICTED RDII PLUS BASE FLOW DURING 10-YEAR, 36-HOUR DESIGN STORM EVENT



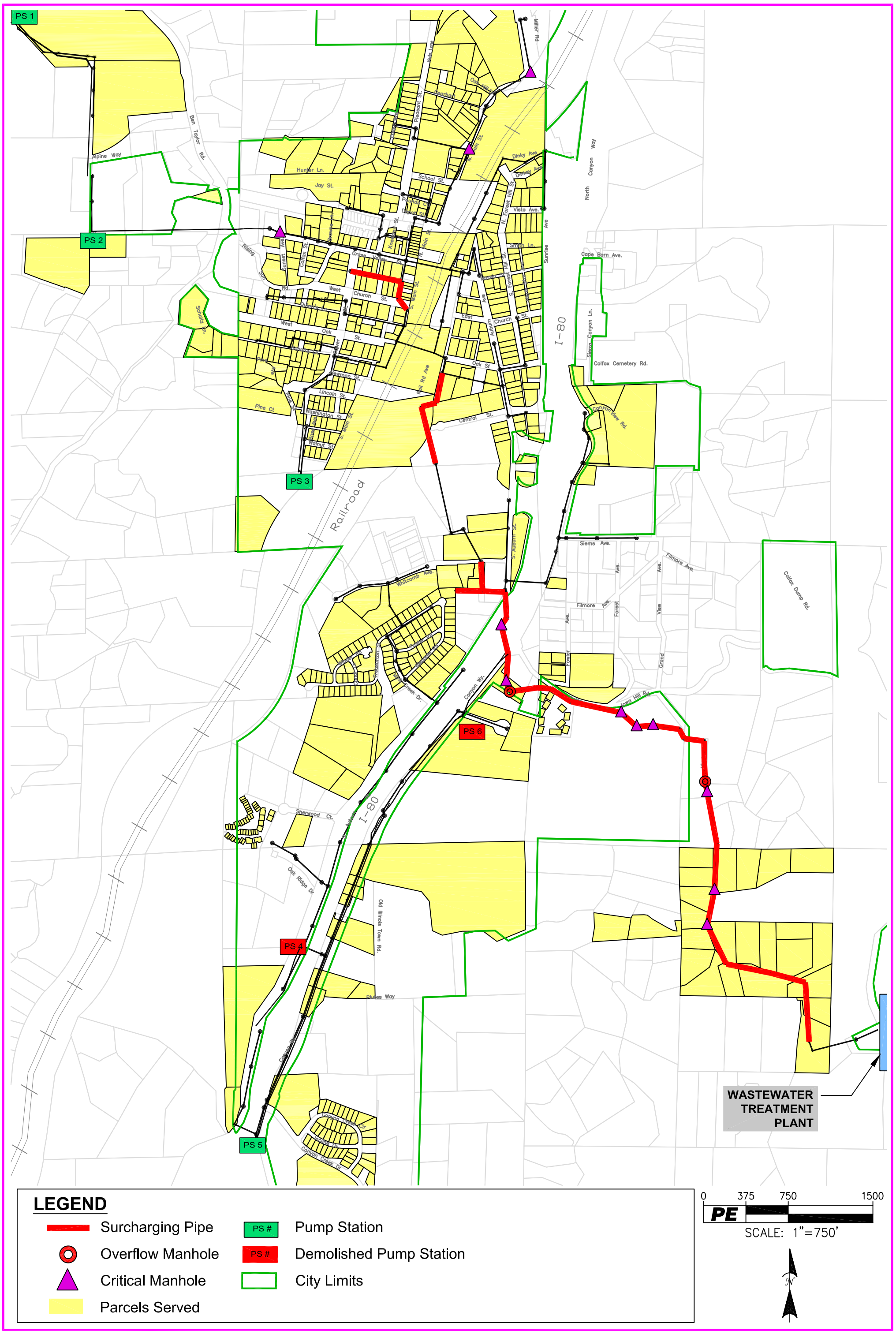
Application of the 10-year, 24-hour design storm to the RTK scenario determined in Section 3 resulted in the predicted hydrograph shown in Figure 9. A 10-year, 24-hour design storm was estimated to produce a peak of 2.5 mgd. As described previously, the system shows a significant reponse to periods (days) of sustained rainfall. In comparing 10–year type events, a 36-hour simulation generates a higher peak flow into the WWTP (2.7 mgd vs 2.5 mgd). As a result, the City may want to simulate 36-hour duration events as part of hydraulic modeling of the system. Both events have the same probablility of occurance, i.e. they would be expected to occur once every 10 years.

FIGURE 9. PREDICTED RDII PLUS BASE FLOW DURING 10-YEAR, 24-HOUR DESIGN STORM EVENT



APPENDIX C

PUMP STATION 5 MODIFICATION FIGURE
PWWF MODEL WITH PS5 PUMPING RATES REDUCED TO 100 GPM



CITY OF COLFAX PWFF MODEL RESULTS WITH PS5 PUMPING RATE REDUCED TO 100 GPM

APPENDIX D

MANHOLE REFERENCE IDS

City of Colfax
Modeled Manhole Attibutes
Existing System Peak Wet Weather Conditions

Manhole ID	Rim Elevation (ft)	Floor Elevation (ft)	Coordinate X (ft)	Coordinate Y (ft)	Maximum HGL Elev.[a] (ft)
2	2,145.19	2,138.59	6,862,482.45	2,157,428.59	2,139.78
3	2,146.62	2,139.72	6,862,098.73	2,157,329.69	2,140.67
4	2,146.48	2,139.83	6,862,068.90	2,157,409.39	2,140.94
5	2,147.97	2,141.97	6,862,035.59	2,157,935.13	2,145.09
8	2,153.50	2,146.10	6,861,726.50	2,158,018.40	2,147.58
10	2,185.03	2,179.73	6,861,334.65	2,158,097.79	2,185.03
11	2,209.44	2,202.69	6,861,166.59	2,158,441.48	2,209.44
12	2,217.71	2,211.91	6,861,230.06	2,158,751.42	2,217.71
13	2,233.56	2,223.16	6,861,250.41	2,159,164.29	2,231.46
14	2,236.67	2,228.97	6,861,165.13	2,159,617.80	2,236.67
15	2,242.02	2,235.72	6,861,147.61	2,159,714.13	2,242.02
16	2,260.33	2,248.08	6,861,140.25	2,159,886.78	2,260.33
17	2,262.55	2,248.60	6,861,137.35	2,160,073.44	2,260.74
18	2,263.03	2,249.10	6,860,961.91	2,160,095.01	2,261.12
19	2,264.78	2,260.33	6,860,918.05	2,160,177.59	2,264.78
20	2,282.41	2,279.06	6,860,685.88	2,160,210.60	2,282.41
21	2,285.08	2,280.38	6,860,540.68	2,160,201.23	2,285.08
22	2,288.61	2,283.61	6,860,403.29	2,160,324.07	2,288.61
23	2,326.04	2,306.94	6,859,959.01	2,160,422.20	2,326.04
24	2,328.33	2,307.53	6,859,778.92	2,160,537.26	2,326.47
25	2,321.77	2,307.77	6,859,657.55	2,160,545.25	2,321.77
26	2,314.08	2,309.53	6,859,415.83	2,160,510.60	2,314.08
27	2,316.52	2,309.68	6,859,383.79	2,160,600.13	2,314.26
28	2,319.87	2,310.04	6,859,402.75	2,160,844.18	2,314.73
28A1	2,156.72	2,150.11	6,857,168.75	2,156,591.06	2,150.63
28A11	2,256.89	2,250.19	6,858,319.71	2,159,810.82	2,250.48
28A12	2,265.14	2,257.47	6,858,551.66	2,160,137.87	2,257.75
28A13	2,277.32	2,271.37	6,858,772.79	2,160,413.39	2,271.65
28A14	2,288.16	2,281.01	6,859,004.01	2,160,704.64	2,281.08
28A2	2,158.35	2,152.05	6,856,975.28	2,156,678.77	2,152.18
28A3	2,166.01	2,161.06	6,857,055.62	2,156,836.78	2,161.17
28A4	2,212.27	2,207.67	6,857,123.84	2,157,190.08	2,207.76
28A5	2,252.32	2,248.57	6,857,202.77	2,157,500.20	2,248.64
28A6	2,213.44	2,205.11	6,857,666.97	2,158,434.43	2,205.47
28A7	2,221.48	2,215.43	6,857,804.56	2,158,788.58	2,215.78
28A8	2,254.73	2,246.28	6,857,912.56	2,159,176.43	2,246.59
28A9	2,263.88	2,248.58	6,858,095.14	2,159,529.55	2,248.88
28B0.5	2,161.22	2,153.23	6,857,237.12	2,156,826.53	2,153.73
28B1	2,162.73	2,154.95	6,857,264.51	2,156,894.31	2,155.44
28B10	2,247.50	2,242.17	6,858,459.59	2,159,714.59	2,242.33
28B11	2,262.70	2,257.72	6,858,709.73	2,160,026.73	2,257.87
28B12	2,277.20	2,267.80	6,858,959.44	2,160,339.21	2,267.93
28B13	2,277.70	2,268.37	6,859,009.25	2,160,322.54	2,268.48
28B14	2,287.50	2,280.60	6,859,393.52	2,160,182.29	2,280.67
28B15	2,279.10	2,271.34	6,858,997.39	2,160,290.73	2,271.40

City of Colfax
Modeled Manhole Attibutes
Existing System Peak Wet Weather Conditions

Manhole ID	Rim Elevation (ft)	Floor Elevation (ft)	Coordinate X (ft)	Coordinate Y (ft)	Maximum HGL Elev.[a] (ft)
28B2	2,181.96	2,170.70	6,857,430.64	2,157,278.42	2,171.18
28B3	2,185.12	2,173.32	6,857,583.85	2,157,631.22	2,173.80
28B4	2,188.40	2,180.69	6,857,697.32	2,157,965.48	2,181.16
28B4.5	2,192.50	2,185.09	6,857,778.33	2,158,172.25	2,185.56
28B5	2,194.47	2,189.04	6,857,841.52	2,158,333.65	2,189.27
28B6	2,202.55	2,194.36	6,857,973.45	2,158,666.28	2,194.58
28B7	2,209.33	2,201.84	6,858,065.92	2,158,892.41	2,202.05
28B8	2,224.50	2,217.06	6,858,306.34	2,159,413.34	2,217.25
28B8	2,214.76	2,210.28	6,858,164.82	2,159,149.78	2,210.48
28B9	2,229.90	2,222.74	6,858,293.02	2,159,457.83	2,222.91
28C1	2,224.85	2,216.64	6,857,749.17	2,158,821.67	2,216.79
28C2	2,230.99	2,222.35	6,857,524.02	2,159,030.47	2,222.48
28C3	2,236.14	2,222.89	6,857,514.26	2,159,057.75	2,223.01
28C4	2,231.63	2,227.30	6,857,311.44	2,159,170.12	2,227.40
28D0.5	2,206.53	2,200.28	6,857,577.78	2,158,216.22	2,200.69
28D1	2,222.75	2,217.75	6,857,406.81	2,157,875.47	2,217.84
2.80E+02	2,288.72	2,283.27	6,858,489.23	2,160,618.06	2,283.53
2.80E+03	2,291.79	2,287.19	6,858,445.44	2,160,704.60	2,287.43
2.80E+04	2,295.29	2,289.70	6,858,410.23	2,160,782.78	2,289.94
2.80E+05	2,297.93	2,292.28	6,858,413.38	2,160,870.59	2,292.51
2.80E+06	2,303.16	2,297.41	6,858,330.35	2,161,000.20	2,297.62
2.80E+07	2,316.49	2,310.24	6,858,465.58	2,161,089.35	2,310.43
28E6.4	2,345.14	2,339.00	6,858,725.67	2,161,254.01	2,339.07
2.80E+08	2,329.05	2,312.15	6,858,351.79	2,161,272.30	2,312.31
2.80E+09	2,329.47	2,316.52	6,858,337.26	2,161,471.24	2,316.67
28E8.3	2,338.38	2,326.73	6,858,086.92	2,161,448.62	2,326.82
28E8.4	2,333.89	2,321.19	6,858,416.00	2,161,505.82	2,321.28
28E8.7	2,346.14	2,336.14	6,857,874.50	2,161,332.02	2,336.21
28E8.8	2,352.68	2,345.53	6,858,683.48	2,161,619.67	2,345.59
28F1	2,192.50	2,185.96	6,857,745.97	2,158,186.05	2,186.28
28F2	2,207.00	2,196.66	6,857,577.83	2,158,256.58	2,196.98
28F3	2,206.69	2,199.90	6,857,562.76	2,158,225.26	2,200.28
29	2,317.88	2,310.43	6,859,341.25	2,161,095.22	2,315.18
30	2,321.88	2,310.56	6,859,387.60	2,161,165.43	2,315.27
31	2,322.44	2,310.90	6,859,375.43	2,161,393.05	2,315.50
31A1	2,322.71	2,315.42	6,859,373.50	2,161,410.70	2,315.72
31A10	2,420.88	2,408.36	6,860,119.35	2,162,757.95	2,408.49
31A11	2,415.11	2,408.79	6,860,073.64	2,162,834.33	2,408.90
31A12	2,415.07	2,409.77	6,860,080.91	2,162,977.16	2,409.85
31A2	2,327.62	2,316.56	6,859,381.67	2,161,493.90	2,316.85
31A3	2,348.86	2,324.21	6,859,738.24	2,161,472.89	2,324.47
31A4	2,392.03	2,388.43	6,859,829.75	2,161,752.23	2,388.68
31A5	2,409.39	2,403.73	6,859,848.12	2,161,872.35	2,403.97
31A6	2,409.85	2,404.55	6,859,897.40	2,162,110.09	2,404.79
31A7	2,417.16	2,405.81	6,859,966.96	2,162,367.71	2,406.01

City of Colfax
Modeled Manhole Attibutes
Existing System Peak Wet Weather Conditions

Manhole ID	Rim Elevation (ft)	Floor Elevation (ft)	Coordinate X (ft)	Coordinate Y (ft)	Maximum HGL Elev.[a] (ft)
31A8	2,422.85	2,406.85	6,860,061.94	2,162,537.00	2,407.03
31B2	2,351.20	2,340.77	6,859,396.10	2,161,957.47	2,340.88
31B3	2,368.95	2,357.13	6,859,407.89	2,162,207.24	2,357.20
31C1	2,414.74	2,411.04	6,859,916.29	2,161,871.77	2,411.16
31C2	2,418.58	2,412.20	6,860,189.17	2,161,870.85	2,412.31
31C3	2,418.66	2,413.71	6,860,539.64	2,161,873.08	2,413.79
31D1	2,431.42	2,423.93	6,860,296.86	2,162,528.42	2,424.00
32	2,319.26	2,313.04	6,859,175.15	2,161,401.56	2,315.65
32A2	2,355.68	2,350.15	6,858,934.39	2,161,405.88	2,350.21
33	2,335.46	2,326.26	6,859,160.00	2,161,662.25	2,326.93
34	2,372.00	2,357.26	6,859,004.46	2,161,949.52	2,357.90
35	2,372.55	2,368.15	6,858,895.02	2,161,915.19	2,368.79
36	2,384.55	2,379.10	6,858,758.00	2,162,534.36	2,379.77
37	2,391.01	2,383.43	6,858,631.67	2,163,034.76	2,385.18
38	2,398.45	2,384.50	6,858,765.60	2,163,069.72	2,386.62
39	2,394.84	2,388.09	6,858,819.35	2,163,332.69	2,389.41
39A1	2,409.05	2,402.64	6,859,195.78	2,163,248.70	2,402.86
39A2	2,420.26	2,408.66	6,859,353.56	2,163,218.16	2,408.87
39A3	2,425.33	2,421.08	6,859,327.48	2,163,365.49	2,421.24
39A4	2,443.88	2,439.68	6,859,553.71	2,163,401.15	2,439.80
39A5	2,474.67	2,470.83	6,859,482.55	2,163,823.87	2,470.92
39B1	2,414.51	2,410.26	6,859,402.50	2,162,950.48	2,410.37
39B2	2,420.76	2,415.11	6,859,560.19	2,162,978.86	2,415.19
39C1	2,433.07	2,428.37	6,859,277.35	2,163,594.01	2,428.45
40	2,413.00	2,391.92	6,858,846.31	2,163,464.12	2,392.56
41	2,413.01	2,395.06	6,858,746.57	2,163,510.56	2,395.70
41A1	2,415.20	2,409.40	6,858,816.78	2,163,794.42	2,409.58
41A3	2,419.15	2,412.35	6,858,903.37	2,164,245.48	2,412.52
42	2,405.94	2,397.27	6,858,416.01	2,163,613.72	2,398.03
42A1	2,416.04	2,407.66	6,858,318.54	2,163,381.63	2,407.99
42A2	2,423.88	2,416.11	6,857,862.62	2,163,481.57	2,416.47
42A3	2,438.70	2,430.07	6,857,828.92	2,163,325.82	2,430.39
42A4	2,477.42	2,467.77	6,857,600.58	2,163,183.78	2,468.09
42A6	2,451.18	2,446.01	6,857,596.63	2,162,749.76	2,446.12
42A7	2,463.11	2,459.11	6,857,615.02	2,162,864.36	2,459.18
42B1	2,422.66	2,416.71	6,857,878.42	2,163,553.23	2,416.87
42B2	2,472.38	2,468.18	6,857,496.03	2,163,647.62	2,468.32
42B3	2,476.11	2,470.00	6,857,468.28	2,163,562.85	2,470.11
42B4	2,545.13	2,539.08	6,857,173.58	2,163,628.93	2,539.16
43	2,405.26	2,398.40	6,858,480.60	2,163,748.26	2,398.95
43A1	2,423.38	2,412.53	6,857,954.06	2,163,857.44	2,412.71
43A2	2,418.32	2,414.22	6,857,963.24	2,163,973.32	2,414.39
43A2.5	2,425.53	2,420.53	6,857,748.45	2,163,984.85	2,420.70
43A3	2,438.72	2,434.82	6,857,416.39	2,164,003.74	2,434.95
43A4	2,448.39	2,441.93	6,857,272.69	2,164,018.40	2,442.03

City of Colfax
Modeled Manhole Attibutes
Existing System Peak Wet Weather Conditions

Manhole ID	Rim Elevation (ft)	Floor Elevation (ft)	Coordinate X (ft)	Coordinate Y (ft)	Maximum HGL Elev.[a] (ft)
43A5	2,448.34	2,444.74	6,857,265.17	2,164,000.57	2,444.81
44	2,409.72	2,401.35	6,858,502.90	2,163,895.66	2,402.46
45	2,407.33	2,402.23	6,858,427.85	2,163,995.88	2,403.95
46	2,409.52	2,403.27	6,858,457.09	2,164,143.23	2,405.71
46A1	2,424.89	2,414.54	6,858,006.88	2,164,236.02	2,414.62
47	2,415.15	2,408.09	6,858,495.48	2,164,328.60	2,408.62
47A1	2,422.91	2,418.06	6,858,259.98	2,164,383.78	2,418.39
47A10	2,303.51	2,296.94	6,855,077.80	2,166,403.74	2,297.16
47A10.5	2,309.77	2,301.47	6,855,283.18	2,166,177.28	2,301.67
47A11	2,321.97	2,314.67	6,855,417.54	2,166,167.03	2,314.86
47A12	2,323.83	2,317.03	6,855,674.99	2,166,140.03	2,317.19
47A12.5	2,350.00	2,328.62	6,855,737.07	2,166,133.54	2,328.76
47A13	2,354.23	2,346.93	6,855,734.83	2,166,035.59	2,347.06
47A14	2,354.82	2,349.37	6,855,729.90	2,165,837.16	2,349.47
47A15	2,355.61	2,351.36	6,855,725.41	2,165,613.62	2,351.43
47A2	2,436.03	2,431.83	6,858,046.45	2,164,434.21	2,432.16
47A3	2,452.19	2,446.49	6,857,823.78	2,164,479.83	2,446.82
47A4	2,458.39	2,450.79	6,857,716.02	2,164,501.95	2,451.13
47A5	2,478.01	2,468.01	6,857,601.33	2,164,534.28	2,468.35
47A6	2,517.28	2,514.73	6,857,380.11	2,164,575.88	2,515.08
47A7	2,544.74	2,540.29	6,857,288.39	2,164,614.64	2,540.64
47A9	2,329.66	2,324.56	6,855,709.97	2,164,853.73	2,324.85
47A9.5	2,366.65	2,362.95	6,855,713.46	2,165,077.67	2,363.27
47B1	2,419.04	2,412.29	6,858,885.70	2,164,249.36	2,412.53
47B10	2,470.01	2,463.61	6,859,725.70	2,165,031.91	2,463.74
47B11	2,475.25	2,469.25	6,859,721.56	2,164,791.12	2,469.35
47B12	2,476.39	2,472.04	6,859,705.50	2,164,790.63	2,472.11
47B2	2,420.30	2,412.85	6,858,949.02	2,164,378.57	2,413.09
47B3	2,420.95	2,414.25	6,859,102.18	2,164,700.68	2,414.48
47B4	2,420.86	2,415.23	6,859,207.91	2,164,928.41	2,415.44
47B5	2,420.27	2,416.01	6,859,292.81	2,165,107.25	2,416.21
47B6	2,420.57	2,416.57	6,859,354.44	2,165,234.63	2,416.75
47B7	2,439.66	2,433.31	6,859,552.84	2,165,203.99	2,433.47
47B8	2,452.27	2,445.17	6,859,731.23	2,165,302.01	2,445.31
47C1	2,426.74	2,413.74	6,859,003.38	2,164,225.03	2,413.91
47C2	2,431.28	2,424.43	6,859,052.82	2,164,215.16	2,424.56
47C3	2,439.48	2,435.08	6,859,098.01	2,164,431.62	2,435.19
47C4	2,440.97	2,437.42	6,859,147.24	2,164,197.73	2,437.50
47D1	2,420.77	2,417.14	6,858,963.75	2,164,031.29	2,417.21
48	2,420.39	2,414.44	6,858,533.07	2,164,514.82	2,414.78
48A1	2,428.11	2,421.21	6,858,325.76	2,164,556.85	2,421.37
48A2	2,428.98	2,423.68	6,858,254.33	2,164,526.76	2,423.83
48A3	2,440.55	2,436.23	6,858,269.72	2,164,612.58	2,436.36
48A3.5	2,464.29	2,459.39	6,858,292.46	2,164,728.72	2,459.50
48A4	2,488.93	2,483.18	6,857,975.26	2,164,794.54	2,483.26

City of Colfax
Modeled Manhole Attibutes
Existing System Peak Wet Weather Conditions

Manhole ID	Rim Elevation (ft)	Floor Elevation (ft)	Coordinate X (ft)	Coordinate Y (ft)	Maximum HGL Elev.[(a)] (ft)
49	2,428.79	2,414.55	6,858,576.89	2,164,707.00	2,415.12
50	2,425.02	2,415.87	6,858,670.35	2,164,684.03	2,416.18
50A1	2,431.95	2,428.05	6,858,706.71	2,164,866.67	2,428.16
50A2	2,448.53	2,442.38	6,858,468.43	2,164,917.73	2,442.46
51	2,422.21	2,416.46	6,858,787.55	2,164,658.16	2,416.79
52	2,429.52	2,423.67	6,858,882.68	2,164,969.80	2,423.94
53	2,429.93	2,425.18	6,859,026.14	2,165,233.47	2,425.47
54	2,429.07	2,425.97	6,859,056.39	2,165,310.24	2,426.19
54A1	2,475.39	2,469.84	6,858,565.32	2,165,414.11	2,469.98
54A3	2,482.59	2,473.99	6,858,582.55	2,165,499.86	2,474.10
54A5	2,510.99	2,504.54	6,858,403.02	2,165,534.86	2,504.62
55	2,438.20	2,429.30	6,859,193.23	2,165,665.65	2,429.47
56	2,440.97	2,430.96	6,859,207.78	2,165,700.21	2,431.12
57	2,450.31	2,445.86	6,859,288.07	2,165,809.26	2,446.00
58	2,466.20	2,463.10	6,859,599.19	2,165,991.77	2,463.22
59	2,486.94	2,481.69	6,859,508.99	2,166,463.48	2,481.79
60	2,486.45	2,481.75	6,859,553.49	2,166,471.54	2,481.86

(a) HGL = Hydraulic Grade Line
HGL elevation based upon 10-year, 36-hour design storm

APPENDIX E

HYDRAULIC MODEL RESULTS
EXISTING SYSTEM PEAK WET WEATHER FLOWS

City of Colfax
Modeled Gravity Sewer Pipe Attibutes
Existing System Peak Wet Weather Conditions

Pipe ID	USMH[a]	USMH Invert Elev (ft)	DSMH[a]	DSMH Invert Elev (ft)	Length (ft)	Diameter (in)	Material	Roughness (n)	Slope (ft/ft)	Full Flow Capacity (gal/min)	Maximum Flow[b] (gal/min)	Maximum Depth (Avg End/Rise) (%)	Time of Maximum Flow (hours)	Maximum Velocity[b] (ft/s)	Time of Maximum Velocity (hours)
P1	47A15	2,351.36	47A14	2,349.37	224	6	PVC	0.013	0.0089	309	9	17.3	30	1.55	30
P2	47A14	2,349.37	47A13	2,346.93	198	6	PVC	0.013	0.0123	363	20	23	31	2.23	31
P3	47A13	2,346.93	47A12.5	2,328.62	98	6	PVC	0.013	0.1868	1,415	29	27	32	6.43	32
P4	47A12.5	2,328.62	47A12	2,317.03	62	6	PVC	0.013	0.1869	1,415	38	30.5	32	6.97	32
P5	47A12	2,317.03	47A11	2,314.67	259	6	PVC	0.013	0.0091	313	47	35.1	32	2.56	32
P6	47A11	2,314.67	47A10.5	2,301.47	135	6	PVC	0.013	0.0978	1,024	66	39.4	31	6.53	31
P7	47A10.5	2,301.47	47A10	2,296.94	306	6	PVC	0.013	0.0148	398	75	42	32	3.46	32
P11	47A9.5	2,362.95	47A9	2,324.56	224	6	VCP	0.013	0.1714	1,043	174	45.4	30	8.79	30
P12	47A9	2,324.56	PS2	2,292.00	268	8	PVC	0.013	0.1215	2,457	170	30.4	30	9.01	30
P13	47A7	2,540.29	47A6	2,514.73	100	8	PVC	0.013	0.2556	3,564	246	50	14	13.05	14
P14	47A6	2,514.73	47A5	2,468.01	225	8	VCP	0.013	0.2076	2,471	244	45.1	14	10.06	14
P15	47A5	2,468.01	47A4	2,450.79	119	8	VCP	0.013	0.1447	2,063	234	50.2	14	8.73	14
P16	47A4	2,450.79	47A3	2,446.49	110	8	VCP	0.013	0.0391	1,072	230	47.6	33	5.44	33
P17	47A3	2,446.49	47A2	2,431.83	227	8	VCP	0.013	0.0646	1,378	229	48.7	33	6.5	33
P18	47A2	2,431.83	47A1	2,418.06	219	8	VCP	0.013	0.0629	1,360	224	49.6	33	6.4	33
P19	47A1	2,418.06	47	2,409.14	242	8	VCP	0.013	0.0369	1,041	227	40.9	31	5.31	31
P20	46A1	2,414.54	46	2,403.47	460	6	VCP	0.013	0.0241	391	11	100	31	1.95	31
P21	48A4	2,483.18	48A3.5	2,459.39	324	6	VCP	0.013	0.0734	682	12	18.5	31	2.92	31
P22	48A3.5	2,459.39	48A3	2,436.23	118	6	VCP	0.013	0.1963	1,116	21	23.4	32	4.96	32
P23	48A3	2,436.23	48A2	2,424.38	87	6	VCP	0.013	0.1362	929	30	18.9	32	4.84	32
P24	48A2	2,423.68	48A1	2,421.21	78	6	VCP	0.013	0.0317	448	40	31	32	3.14	32
P25	48A1	2,421.21	48	2,414.44	212	6	VCP	0.013	0.0319	450	49	50.4	32	3.35	32
P26	50A2	2,442.38	50A1	2,428.05	244	6	VCP	0.013	0.0587	610	11	18.5	31	2.7	31
P27	50A1	2,428.05	50	2,420.66	186	6	VCP	0.013	0.0397	502	22	17.8	31	2.83	31
P28	54A5	2,504.54	54A3	2,473.99	183	8	PVC	0.013	0.1669	2,881	13	13.6	31	4.65	31
P29	54A3	2,473.99	54A1	2,469.84	87	8	PVC	0.013	0.0477	1,540	24	18	31	3.63	31
P30	54A1	2,469.84	54	2,425.97	502	6	VCP	0.013	0.0874	744	34	35.8	31	4.26	31
P31	60	2,481.75	59	2,481.69	45	6	VCP	0.013	0.0013	92	10	21.3	31	0.68	31
P32	59	2,481.69	58	2,463.10	480	6	VCP	0.013	0.0387	496	20	22.7	31	2.74	31
P33	58	2,463.10	57	2,445.86	361	6	VCP	0.013	0.0478	550	29	26.9	32	3.3	32
P34	57	2,445.86	56	2,430.96	135	6	VCP	0.013	0.1104	837	39	30.7	32	4.82	32
P35	56	2,430.96	55	2,430.30	38	6	VCP	0.013	0.0174	332	48	29.1	32	2.69	32
P36	55	2,429.30	54	2,425.97	381	8	VCP	0.013	0.0087	507	60	29.2	32	2.18	32
P37	54	2,425.97	53	2,425.18	83	8	VCP	0.013	0.0095	529	105	38.6	32	2.63	32
P38	53	2,425.18	52	2,423.67	300	6	VCP	0.013	0.005	179	115	55.7	32	2.15	32
P39	52	2,423.67	51	2,416.46	326	6	VCP	0.013	0.0221	375	124	59.1	32	3.82	32
P40	51	2,416.46	50	2,415.87	120	6	VCP	0.013	0.0049	177	134	63.4	32	2.2	32
P41	50	2,415.87	49	2,414.55	96	6	VCP	0.013	0.0137	295	165	87.5	32	3.44	32
P42	49	2,414.55	48	2,414.44	197	8	VCP	0.013	0.0006	128	175	68.1	32	1.12	32
P43	48	2,414.44	47	2,409.24	190	8	PVC	0.013	0.0274	1,166	237	40.8	32	5.83	32
P44	47	2,408.09	46	2,405.02	189	8	VCP	0.013	0.0162	691	571	91.7	31	4.93	31

City of Colfax
Modeled Gravity Sewer Pipe Attibutes
Existing System Peak Wet Weather Conditions

Pipe ID	USMH[a]	USMH Invert Elev (ft)	DSMH[a]	DSMH Invert Elev (ft)	Length (ft)	Diameter (in)	Material	Roughness (n)	Slope (ft/ft)	Full Flow Capacity (gal/min)	Maximum Flow[b] (gal/min)	Maximum Depth (Avg End/Rise) (%)	Time of Maximum Flow (hours)	Maximum Velocity[b] (ft/s)	Time of Maximum Velocity (hours)
P45	46	2,403.27	45	2,402.23	150	8	VCP	0.013	0.0069	452	588	100	31	3.75	31
P46	45	2,402.23	44	2,401.35	125	8	VCP	0.013	0.007	455	593	100	31	3.78	31
P47	44	2,401.35	43	2,400.06	149	8	VCP	0.013	0.0087	505	598	100	32	3.82	32
P48	43A5	2,444.74	43A4	2,441.93	19	6	PVC	0.013	0.1479	1,259	9	17.2	31	4.17	31
P49	43A4	2,441.93	43A3	2,434.82	144	6	PVC	0.013	0.0494	727	19	22.6	31	3.55	31
P50	43A3	2,434.82	43A2.5	2,420.53	333	6	PVC	0.013	0.0429	678	29	29.1	31	3.84	31
P51	43A2.5	2,420.53	43A2	2,414.22	215	4	VCP	0.013	0.0293	146	40	42.6	31	3.18	31
P52	43A2	2,414.22	43A1	2,412.53	116	6	VCP	0.013	0.0146	304	50	34.8	32	2.55	32
P53	43A1	2,412.53	43	2,398.40	538	6	VCP	0.013	0.0263	408	61	73.6	32	3.32	32
P54	43	2,398.40	42	2,397.27	149	10	VCP	0.013	0.0076	856	668	78.6	32	3.87	32
P55	42A4	2,467.77	42A3	2,433.70	269	6	VCP	0.013	0.1267	896	180	47.4	30	7.94	30
P56	42A3	2,430.07	42A2	2,419.16	159	6	VCP	0.013	0.0686	660	178	49.7	30	6.34	30
P58	42B4	2,539.08	42B3	2,470.00	302	6	VCP	0.013	0.2287	1,204	12	19.5	31	4.4	31
P59	42B3	2,470.00	42B2	2,468.18	89	6	VCP	0.013	0.0204	360	24	25.1	31	2.33	31
P60	42B2	2,468.18	42B1	2,416.71	394	6	VCP	0.013	0.1306	910	35	29.3	32	4.96	32
P61	42B1	2,416.71	42A2	2,416.11	73	6	VCP	0.013	0.0082	228	45	51	32	2.01	32
P62	42A2	2,416.11	42A1	2,407.66	467	6	VCP	0.013	0.0181	339	218	64.6	30	4.08	30
P63	42A1	2,407.66	42	2,401.54	252	6	VCP	0.013	0.0243	392	189	57.5	30	4.41	30
P64	41	2,395.06	42	2,397.27	346	10	VCP	0.013	0.0064	786	840	83.5	32	3.66	30
P65	41	2,395.06	40	2,391.92	110	10	VCP	0.013	0.0285	1,661	902	76.4	32	6.93	32
P66	40	2,391.92	39	2,390.09	134	10	VCP	0.013	0.0137	1,149	908	71.8	32	5.2	32
P67	39	2,388.09	38	2,384.50	268	10	VCP	0.013	0.0134	1,138	1,003	100	32	5.16	30
P69	47C4	2,437.42	47C3	2,435.08	239	6	VCP	0.013	0.0098	249	12	18.7	31	1.45	31
P70	47C3	2,435.08	47C2	2,424.43	221	6	VCP	0.013	0.0482	553	22	23.9	32	3.05	32
P71	47C2	2,424.43	47C1	2,422.54	50	6	VCP	0.013	0.0378	490	31	21.6	32	3.12	32
P73	47D1	2,417.14	47C1	2,415.20	198	6	VCP	0.013	0.0098	249	10	13.8	31	1.36	31
P74	47C1	2,413.74	41A3	2,412.35	102	6	VCP	0.013	0.0136	294	50	33.2	32	2.5	32
P75	41A1	2,409.40	41	2,395.06	292	8	PVC	0.013	0.0491	1,562	70	61.3	32	5.03	32
P76	47B12	2,472.04	47B11	2,470.85	16	6	VCP	0.013	0.0744	687	9	10.9	30	2.73	30
P77	47B11	2,469.25	47B10	2,463.61	241	6	VCP	0.013	0.0234	385	20	22.9	31	2.3	31
P78	47B10	2,463.61	47B8	2,445.17	270	6	VCP	0.013	0.0683	658	29	27.1	32	3.78	32
P79	47B8	2,445.17	47B7	2,433.31	204	6	VCP	0.013	0.0581	607	39	30.6	32	3.86	32
P80	47B7	2,433.31	47B6	2,416.57	201	6	VCP	0.013	0.0833	727	48	34.5	32	4.66	32
P81	47B6	2,416.57	47B5	2,416.01	142	8	VCP	0.013	0.0039	341	57	28.7	32	1.61	32
P82	47B5	2,416.01	47B4	2,415.23	198	8	VCP	0.013	0.0039	340	66	31	32	1.68	32
P83	47B4	2,415.23	47B3	2,414.25	251	8	VCP	0.013	0.0039	339	75	33.1	32	1.74	32
P84	47B3	2,414.25	47B2	2,412.85	357	8	VCP	0.013	0.0039	340	85	35.1	32	1.8	32
P85	47B2	2,412.85	47B1	2,412.29	144	8	VCP	0.013	0.0039	338	94	36.2	32	1.85	32
P86	39A5	2,470.83	39A4	2,439.68	429	6	VCP	0.013	0.0726	679	16	20.9	31	3.18	31
P87	39A4	2,439.68	39A3	2,421.08	229	6	VCP	0.013	0.0812	718	26	27.9	32	3.86	32
P88	39C1	2,428.37	39A3	2,421.08	234	6	VCP	0.013	0.0312	444	11	23.9	31	2.16	31

City of Colfax
Modeled Gravity Sewer Pipe Attibutes
Existing System Peak Wet Weather Conditions

Pipe ID	USMH[a]	USMH Invert Elev (ft)	DSMH[a]	DSMH Invert Elev (ft)	Length (ft)	Diameter (in)	Material	Roughness (n)	Slope (ft/ft)	Full Flow Capacity (gal/min)	Maximum Flow[b] (gal/min)	Maximum Depth (Avg End/Rise) (%)	Time of Maximum Flow (hours)	Maximum Velocity[b] (ft/s)	Time of Maximum Velocity (hours)
P89	39A3	2,421.08	39A2	2,414.31	150	6	VCP	0.013	0.0451	535	48	26.2	32	3.75	32
P90	39B2	2,415.11	39B1	2,410.26	160	6	VCP	0.013	0.0303	438	11	18.5	31	2.11	31
P91	39B1	2,410.26	39A2	2,408.66	272	6	VCP	0.013	0.0059	193	20	31.9	32	1.42	32
P92	39A2	2,408.66	39A1	2,402.64	161	6	VCP	0.013	0.0374	487	79	43.3	32	4.06	32
P93	39A1	2,402.64	39	2,391.14	386	6	VCP	0.013	0.0298	435	89	37.6	32	3.87	32
P94	38	2,384.50	37	2,383.81	138	10	VCP	0.013	0.005	695	1,004	100	32	4.1	32
P95	37	2,383.43	36	2,379.10	516	10	VCP	0.013	0.0084	901	1,006	100	32	4.19	33
P96	36	2,379.10	35	2,368.65	634	10	PVC	0.013	0.0165	1,641	995	68.1	32	7.02	32
P97	35	2,368.15	34	2,357.26	115	12	VCP	0.013	0.0947	4,921	998	63.9	32	10.94	32
P98	34	2,357.26	33	2,326.26	327	12	PVC	0.013	0.0948	6,400	1,007	65.6	32	13.24	32
P99	33	2,326.26	32	2,313.54	261	10	PVC	0.013	0.0487	2,822	1,014	100	32	10.59	32
P100	32	2,313.04	31	2,312.92	200	15	PVC	0.013	0.0006	923	1,032	100	32	1.87	32
P101	32A2	2,350.15	32	2,313.31	241	12	PVC	0.013	0.1529	8,127	11	100	31	4	31
P102	31B3	2,357.13	31B2	2,340.77	250	6	VCP	0.013	0.0654	644	10	17.8	31	2.69	31
P103	31B2	2,340.77	31A2	2,316.56	464	6	VCP	0.013	0.0522	575	21	40	31	3.1	31
P104	31A2	2,316.56	31A1	2,315.42	84	6	VCP	0.013	0.0136	293	151	59.8	32	3.36	32
P105	31A1	2,315.42	31	2,314.71	18	6	VCP	0.013	0.0394	500	160	100	32	5.06	32
P106	31A12	2,409.77	31A11	2,408.79	143	6	VCP	0.013	0.0069	208	10	18.9	31	1.23	31
P107	31A11	2,408.79	31A10	2,408.36	89	6	VCP	0.013	0.0048	175	20	24	32	1.31	32
P108	31A10	2,408.36	31A8	2,406.85	228	6	VCP	0.013	0.0066	205	29	30.3	32	1.64	32
P109	31A8	2,406.85	31A7	2,405.81	194	6	VCP	0.013	0.0054	184	49	37.6	32	1.76	32
P110	31A7	2,405.81	31A6	2,404.55	267	6	VCP	0.013	0.0047	173	58	43.8	32	1.77	32
P111	31A6	2,404.55	31A5	2,403.73	243	6	VCP	0.013	0.0034	146	67	47.9	32	1.63	32
P112	31A5	2,403.73	31A4	2,388.43	122	6	VCP	0.013	0.1254	892	103	49.3	32	6.77	32
P113	31A4	2,388.43	31A3	2,324.71	294	6	VCP	0.013	0.2167	1,172	112	35.6	32	8.4	32
P114	31A3	2,324.21	31A2	2,316.56	357	6	VCP	0.013	0.0214	369	121	55.7	32	3.76	32
P115	31D1	2,423.93	31A8	2,418.65	235	6	VCP	0.013	0.0225	377	9	12.2	30	1.79	30
P116	31C3	2,413.71	31C2	2,412.20	350	6	VCP	0.013	0.0043	165	9	19.1	30	1	30
P117	31C2	2,412.20	31C1	2,411.04	273	6	VCP	0.013	0.0042	164	18	23.2	32	1.22	32
P118	31C1	2,411.04	31A5	2,404.21	68	6	VCP	0.013	0.1004	798	27	18.3	32	4.21	32
P120	29	2,310.43	28	2,310.04	258	15	VCP	0.013	0.0015	1,127	1,209	100	32	2.25	28
P121	28	2,310.04	27	2,309.68	245	15	PVC	0.013	0.0015	1,445	1,650	100	32	3	32
P122	27	2,309.68	26	2,309.53	95	15	PVC	0.013	0.0016	1,498	1,658	100	32	3.04	28
P123	26	2,309.53	25	2,307.77	244	15	PVC	0.013	0.0072	3,201	1,667	100	32	5.45	28
P124	25	2,307.77	24	2,307.53	122	15	PVC	0.013	0.002	1,672	1,675	100	32	3.29	24
P125	24	2,307.53	23	2,306.94	214	15	PVC	0.013	0.0028	1,979	1,685	100	32	3.75	24
P126	23	2,306.94	22	2,283.61	455	8	VCP	0.013	0.0513	1,228	1,701	100	32	10.86	32
P127	22	2,283.61	21	2,280.38	184	10	VCP	0.013	0.0176	1,303	1,711	100	32	6.99	32
P128	21	2,280.38	20	2,279.06	145	10	VCP	0.013	0.0091	938	1,720	100	32	7.03	32
P129	20	2,279.06	19	2,260.33	235	8	VCP	0.013	0.0797	1,531	1,729	100	32	11.1	35
P130	19	2,260.33	18	2,249.10	94	8	VCP	0.013	0.1195	1,875	1,738	100	32	13.04	36

City of Colfax
Modeled Gravity Sewer Pipe Attibutes
Existing System Peak Wet Weather Conditions

Pipe ID	USMH[a]	USMH Invert Elev (ft)	DSMH[a]	DSMH Invert Elev (ft)	Length (ft)	Diameter (in)	Material	Roughness (n)	Slope (ft/ft)	Full Flow Capacity (gal/min)	Maximum Flow[b] (gal/min)	Maximum Depth (Avg End/Rise) (%)	Time of Maximum Flow (hours)	Maximum Velocity[b] (ft/s)	Time of Maximum Velocity (hours)
P131	18	2,249.10	17	2,248.60	177	15	PVC	0.013	0.0028	2,003	1,747	100	32	3.89	38
P132	17	2,248.60	16	2,248.08	187	15	PVC	0.013	0.0028	1,987	1,756	100	32	3.87	38
P133	16	2,248.08	15	2,235.72	173	8	VCP	0.013	0.0714	1,450	1,765	100	32	11.27	32
P134	15	2,235.72	14	2,228.97	98	8	VCP	0.013	0.0689	1,423	1,774	100	32	11.33	32
P135	14	2,228.97	13	2,223.16	461	10	VCP	0.013	0.0126	1,104	1,783	100	32	7.29	32
P136	13	2,223.16	12	2,211.91	413	10	VCP	0.013	0.0272	1,623	1,794	100	32	7.46	36
P137	12	2,211.91	11	2,202.69	316	10	VCP	0.013	0.0292	1,680	1,804	100	32	7.67	36
P138	11	2,202.69	10	2,179.73	383	8	VCP	0.013	0.0599	1,328	1,814	100	32	11.58	32
P139	10	2,179.73	8	2,146.10	400	8	VCP	0.013	0.0841	1,573	1,825	100	32	11.65	32
P140	8	2,146.10	5	2,141.97	320	12	PVC	0.013	0.0129	2,362	1,835	100	32	7.26	30
P141	5	2,141.97	4	2,139.83	527	12	PVC	0.013	0.0041	1,325	1,845	100	32	5.23	32
P142	4	2,139.83	3	2,139.72	85	15	PVC	0.013	0.0013	1,356	1,856	82.4	32	3.37	32
P143	3	2,139.72	2	2,138.59	396	15	PVC	0.013	0.0029	2,013	1,866	85.5	32	4.15	32
P144	2	2,138.59	OF1	2,138.27	211	15	PVC	0.013	0.0015	1,468	1,867	80.5	32	3.39	32
P145	28E8.8	2,345.53	28E8.4	2,321.19	291	8	PVC	0.013	0.0836	2,039	9	11.6	30	3.22	30
P146	28E8.4	2,321.19	2.80E+09	2,316.52	86	8	PVC	0.013	0.0543	1,643	18	17.8	31	3.44	31
P147	28E8.7	2,336.14	28E8.3	2,326.73	242	8	PVC	0.013	0.0389	1,390	10	12.1	31	2.55	31
P148	28E8.3	2,326.73	2.80E+09	2,316.52	251	8	PVC	0.013	0.0407	1,422	19	18	31	3.22	31
P149	2.80E+09	2,316.52	2.80E+08	2,312.15	199	8	PVC	0.013	0.022	1,045	46	23.2	32	3.34	32
P150	2.80E+08	2,312.15	2.80E+07	2,310.24	215	8	PVC	0.013	0.0089	665	57	26.6	32	2.59	32
P152	28E6.4	2,339.00	2.80E+07	2,310.24	308	8	PVC	0.013	0.0934	2,154	11	19.6	31	3.58	31
P153	2.80E+07	2,310.24	2.80E+06	2,297.41	162	8	PVC	0.013	0.0792	1,984	78	29.8	32	6.16	32
P154	2.80E+06	2,297.41	2.80E+05	2,292.28	154	8	PVC	0.013	0.0333	1,287	90	32.4	32	4.73	32
P155	2.80E+05	2,292.28	2.80E+04	2,289.70	88	8	PVC	0.013	0.0293	1,207	108	34.6	32	4.76	32
P156	2.80E+04	2,289.70	2.80E+03	2,287.19	86	8	PVC	0.013	0.0292	1,204	117	36	32	4.87	32
P157	2.80E+03	2,287.19	2.80E+02	2,283.27	97	8	PVC	0.013	0.0404	1,417	126	37.7	32	5.58	32
P158	2.80E+02	2,283.27	28A13	2,271.37	350	8	PVC	0.013	0.034	1,300	140	40.1	32	5.42	32
P159	28A14	2,281.01	28A13	2,271.37	372	6	VCP	0.013	0.0259	405	10	34.7	31	1.92	31
P160	28A13	2,271.37	28A12	2,257.47	353	8	PVC	0.013	0.0394	1,399	159	42.1	32	5.92	32
P161	28A12	2,257.47	28A11	2,250.19	401	8	PVC	0.013	0.0182	950	168	43.3	32	4.57	32
P162	28A11	2,250.19	28A9	2,248.58	360	8	PVC	0.013	0.0045	471	177	44.5	32	2.8	32
P163	28A9	2,248.58	28A8	2,246.28	398	8	PVC	0.013	0.0058	536	187	45.7	32	3.12	32
P164	28A8	2,246.28	28A7	2,215.43	403	8	PVC	0.013	0.0766	1,951	196	49.5	32	7.97	32
P165	28A7	2,215.43	28A6	2,205.11	380	8	PVC	0.013	0.0272	1,162	253	53.3	32	5.92	32
P170	28A5	2,248.57	28A4	2,207.67	320	8	PVC	0.013	0.1278	2,521	10	11.8	31	3.86	31
P171	28A4	2,207.67	28A3	2,161.06	360	8	PVC	0.013	0.1295	2,537	19	15.3	32	4.71	32
P172	28A3	2,161.06	28A2	2,152.05	177	8	PVC	0.013	0.0509	1,591	28	18.3	32	3.85	32
P173	28A2	2,152.05	28A1	2,150.11	212	8	PVC	0.013	0.0092	674	38	49.2	32	2.32	32
P174	28C4	2,227.30	28C3	2,222.89	232	8	PVC	0.013	0.019	972	21	16	31	2.5	31
P175	28C3	2,222.89	28C2	2,222.35	29	8	PVC	0.013	0.0186	962	30	18.7	32	2.78	32
P176	28C2	2,222.35	28C1	2,216.64	307	8	PVC	0.013	0.0186	962	39	21.1	32	3	32

City of Colfax
Modeled Gravity Sewer Pipe Attibutes
Existing System Peak Wet Weather Conditions

Pipe ID	USMH[a]	USMH Invert Elev (ft)	DSMH[a]	DSMH Invert Elev (ft)	Length (ft)	Diameter (in)	Material	Roughness (n)	Slope (ft/ft)	Full Flow Capacity (gal/min)	Maximum Flow[b] (gal/min)	Maximum Depth (Avg End/Rise) (%)	Time of Maximum Flow (hours)	Maximum Velocity[b] (ft/s)	Time of Maximum Velocity (hours)
P177	28C1	2,216.64	28A7	2,215.43	65	8	PVC	0.013	0.0186	962	48	37.5	32	3.19	32
P178	28B8	2,210.28	28B7	2,201.84	276	8	PVC	0.013	0.0306	1,233	83	30.5	32	4.49	32
P179	28B7	2,201.84	28B6	2,194.36	244	8	PVC	0.013	0.0307	1,234	92	32.1	32	4.64	32
P180	28B6	2,194.36	28B5	2,189.04	358	8	PVC	0.013	0.0149	859	102	33.8	32	3.69	32
P182	28B4	2,180.69	28B3	2,173.32	353	8	PVC	0.013	0.0209	1,019	444	71.2	32	6.28	32
P183	28B3	2,173.32	28B2	2,170.70	385	8	PVC	0.013	0.0068	582	454	71.9	32	4.1	32
P184	28B2	2,170.70	28B1	2,154.95	418	8	PVC	0.013	0.0377	1,369	463	72.8	32	7.88	32
P185	28B1	2,154.95	28B0.5	2,153.23	73	8	PVC	0.013	0.0236	1,082	476	74	32	6.69	32
P186	28B0.5	2,153.23	28A1	2,150.11	245	8	PVC	0.013	0.0127	796	494	76.6	32	5.35	32
P187	47A10	2,296.94	PS1	2,295.41	102	6	VCP	0.013	0.015	308	84	39.4	32	2.97	32
P189	42A7	2,459.11	42A6	2,446.01	116	6	VCP	0.013	0.1129	846	10	18.1	31	3.31	31
P190	42A6	2,446.01	PS3	2,380.00	304	6	VCP	0.013	0.2171	1,173	21	15.4	31	5.14	31
P191	28A1	2,150.11	PS5	2,149.72	26	8	PVC	0.013	0.015	864	550	82.8	32	5.84	32
P192	28D1	2,217.75	28D0.5	2,200.28	381	6	PVC	0.013	0.0459	701	16	49.9	31	3.3	31
P193	28A6	2,205.11	28D0.5	2,200.28	236	8	PVC	0.013	0.0205	1,009	262	57.3	32	5.4	32
P194	28D0.5	2,200.28	28F3	2,199.90	18	6	VCP	0.013	0.0211	366	287	73.9	32	4.59	32
P195	28F3	2,199.90	28F2	2,196.66	35	8	PVC	0.013	0.0926	2,145	296	41.2	32	9.61	32
P196	28B5	2,189.04	28B4.5	2,185.09	173	8	PVC	0.013	0.0228	1,065	112	52.3	32	4.41	32
P197	28B4.5	2,185.09	28B4	2,180.69	222	8	PVC	0.013	0.0198	993	435	70.4	32	6.13	32
P199	28F2	2,196.66	28F1	2,185.96	182	16	PVC	0.013	0.0588	10,855	305	23.9	32	7.59	32
P200	28F1	2,185.96	28B4.5	2,185.09	35	16	PVC	0.013	0.0249	7,058	314	29.5	32	5.67	32
P202	28B9	2,222.74	28B8	2,217.06	46	8	PVC	0.013	0.1235	2,477	65	26.9	32	6.78	32
P203	28B10	2,242.17	28B9	2,222.74	306	8	PVC	0.013	0.0635	1,777	56	25	32	5.15	32
P204	28B11	2,257.72	28B10	2,242.17	400	8	PVC	0.013	0.0389	1,390	47	23.1	32	4.11	32
P205	28B12	2,267.80	28B11	2,257.72	400	8	PVC	0.013	0.0252	1,119	36	20.7	32	3.28	32
P206	28B13	2,268.37	28B12	2,267.80	53	8	PVC	0.013	0.0108	731	27	18.1	32	2.23	32
P208	28B15	2,271.34	28B13	2,268.37	34	8	PVC	0.013	0.0874	2,084	9	13.2	30	3.3	30
P210	28B8	2,217.06	28B8	2,210.28	299	8	PVC	0.013	0.0227	1,062	74	28.7	32	3.89	32
P211	47B1	2,412.29	47	2,408.09	398	6	VCP	0.013	0.0106	259	104	77.4	32	2.78	32
P212	41A3	2,412.35	41A1	2,409.40	459	8	PVC	0.013	0.0064	565	59	26	32	2.34	32
P213	31	2,310.90	30	2,310.56	228	15	PVC	0.013	0.0015	1,455	1,195	100	32	2.74	28
P214	30	2,310.56	29	2,310.43	84	15	PVC	0.013	0.0015	1,483	1,201	100	32	2.78	28
P443	28B14	2,280.60	28B13	2,268.37	409	6	VCP	0.013	0.0299	435	9	18.2	31	1.99	31

(a) USMH = Upstream Manhole, DSMH = Downstream Manhole

(b) The values of maximum flow and maximum velocity are the maximum flow and velocities calculated by the dynamic modeling software during the simulation under 10-year, 36-hour design storm conditions.